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January 28, 2015

Erich Weissbart, P.G. Land and Chemicals Division U.S. Environmental Protection Agency, Region III 701 Mapes Road Fort Meade, MD 20755

Re: Quarterly Status Report No. 4

Kop-Flex Voluntary Cleanup Site #31, Hanover, Maryland

Dear Erich:

WSP USA Corp., on behalf of Emerson and Kop-Flex, Inc., is submitting this progress report describing the investigation and remediation activities conducted in the fourth quarter 2014 at the Kop-Flex VCP site in Hanover, Maryland. The report also describes the activities planned for the first quarter 2015. If you have any questions, please do not hesitate to contact us at 703-709-6500.

Sincerely yours,

Robert E. Johnson, PhD. Senior Technical Manager

REJ:rlo

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cc: Mr. Stephen Clarke, Emerson Electric Co.

Ms. Richelle Hanson, Maryland Department of the Environment

Enclosures

Kop-Flex VCP Site #31

October 2014 through December 2014

Site Name:Kop-Flex FacilitySite Address:7565 Harmans Road

Hanover, Maryland 21076

Consultant: WSP USA Corp.

Address: 11190 Sunrise Valley Dr., Suite 300

Reston, Virginia 20191

Phone No.: (703) 709-6500

Site Coordinator: Eric Johnson Alternate: Jim Bulman

1.0 Onsite Activities

The following activities were conducted during the Fourth Quarter 2014.

- As part of the review process for renewal of State Discharge Permit 15-DP-3442 and National Pollutant Discharge Elimination System Permit MD0069094, WSP met onsite with representatives of the Maryland Department of Environment (MDE) Water Management Administration during inspections conducted the week of December 1, 2014. In conjunction with these site visits, information was reviewed with MDE concerning both previous and planned discharges to surface water under the aforementioned permits. A report of findings from the NPDES storm water compliance inspection was electronically forwarded to WSP on December 11, 2014. WSP prepared and submitted a response to the inspection report on December 30, 2014.
- On December 2, 2014, an application for a Water Appropriation and Use Permit was submitted to the Anne Arundel County Department of Environmental Health. The permit is for the planned extraction of groundwater from the affected portions of the aquifer system as part of the future remedial activities at the site.
- A Groundwater Response Action Plan (RAP) Addendum was submitted to MDE and U.S. Environmental Protection Agency (EPA), Region III on December 3, 2014. The Groundwater RAP Addendum described the proposed remedial alternative for addressing volatile organic compounds (VOCs) present in the multi-aquifer system on the Kop-Flex property.
- All onsite monitoring wells, together with offsite well MW-24D on the adjoining Williams-Scotsman property, were sampled the week of December 8, 2014. This sampling event was a continuation of the semi-annual groundwater monitoring activities at the former Kop-Flex site.

A synoptic round of water level measurements was obtained from both the on and off-property wells at the beginning of the sampling activities. A contour map of the groundwater surface, or water table, for the Surficial Aquifer at the former Kop-Flex site is shown in Figure 1. The hydraulic head contours indicate a generally westward flow direction toward Stony Run, which is consistent with the evaluation of previous hydrologic data from this portion of the aquifer system. Figure 2 depicts the potentiometric surface contours for the Lower Patapsco Aquifer based on the contouring of water level data from both

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October 2014 through December 2014

on and off-property deep monitoring wells. Evaluation of the hydraulic head data indicates a generally south-southeast flow path for groundwater in this deeper semi-confined aquifer.

The on-property well analytical results for the December 2014 groundwater monitoring event are presented in Table 1. (Copies of the laboratory reports for these samples are provided in Enclosure A.) Historical data (2009 through 2014) for the on-property monitoring wells are summarized in Table 2. For wells located north and west of the building, the December 2014 analytical results were similar to data from previous sampling events (Figure 3). The shallow (MW-03) and intermediate-depth (MW-18 and MW-39) perimeter wells continue to show no VOCs at levels of concern. The sampling data indicate site-related COCs are not migrating offsite in the Surficial Aguifer. VOC concentrations in samples from Surficial Aquifer wells installed east of the building are also generally consistent with previous monitoring results (Figure 3). Samples from shallow wells MW-02 and MW-04 and intermediate wells MW-16 and MW-20 showed minor decreases in levels of 1.4-dioxane and selected chlorinated VOCs. The MW-12 sample had a slightly higher 1,4-dioxane concentration, although this level was similar to previous monitoring data for this intermediate-depth well. VOC concentrations were similar for samples collected from the deep wells screened in the Lower Patapsco Aquifer (Figure 4). The only notable exception is the sample collected from well MW-17D near the southeast corner of the main manufacturing building, where the concentrations of 1,1,1-trichloroethane and its degradation products, and 1,4-dioxane showed appreciable reduction compared to previous data (Table 2).

2.0 Off-Property Activities

2.1 Offsite Monitoring Wells

- The recently installed off-property monitoring wells were sampled the week of December 15, 2014. The sampling of these wells was performed in conjunction with the onsite semi-annual groundwater monitoring event.
- The analytical results for the off-property monitoring well samples are presented in Table 3. (A copy of the laboratory report for these samples is provided in Enclosure B.) Historical sampling data for the off-property wells are summarized in Table 4. No site-related VOCs were detected in the samples from the two Surficial Aguifer wells (MW-25-40 and MW-28-45) (Figure 5). For the wells completed in the Lower Patapsco Aquifer, VOC concentrations in the sample from well MW-25-130 are slightly lower than the results for offsite well MW-24-128, which is located on the Williams-Scotsman property north of Maryland Route 100. The lower concentrations of VOCs in the sample from the deeper well at the MW-25 location (MW-25-192) is consistent with the vertical distribution of constituents determined from groundwater profiling at other deep monitoring well locations at the site. The sampling data for the deep monitoring wells located further to the south and east of the MW-25 location contained trace to very low concentrations of the site-related VOCs (Figure 5). Additionally, 1,4dioxane was not detected in the sample collected from the southeastern-most well (MW-35-298) in the investigation area (Table 3). (This compound was detected at a concentration of 36.7 micrograms per liter in the September 2014 sample.) The December 2014 monitoring data appears to delineate the downgradient extent of the VOC plume associated with historical releases at the former Kop-Flex facility.

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2.2 Residential Well Sampling

- Based on the September 2014 groundwater quality data for the off-property monitoring wells, MDE requested, via a November 11, 2014 e-mail message, that Emerson sample potable water supply wells within a 0.5-mile radius of wells MW-33-295 and MW-35-298. A total of 49 properties were identified within the search area by MDE; the locations of these properties are shown in Figure 6. Those properties with potable wells that were included in the previous (Phases 1 and 2) well sampling were excluded from the new (Phase 3) sampling activities. MDE distributed a letter to the property owners in November 2014 indicating the potential presence of VOC-affected water in the area and their recommendation to work with Emerson and WSP to sample any potable well on their property.
- Emerson and WSP sent, via Federal Express, access request letters to the property owners on December 2, 2014. This correspondence requested information concerning the well and treatment equipment for the home water system, along with written approval from the owner to access the property to collect the necessary water sample(s).
- On December 8 and December 18, 2014, water samples were collected from five of the six residences with potable wells identified for continued monitoring by MDE. The residential well located at 1012 Minnetonka Road was not sampled due to the inability to schedule the sampling event with the homeowner during this time period.
 - The analytical results for the residential wells sampled on December 8, 2014, were received on December 18th, and the data for the sample collected on December 18th was received on January 5, 2015. Copies of the laboratory reporting sheets for these samples are included in Enclosures C and D. No site-related VOCs were detected above the applicable groundwater comparative criteria in any of the well samples.
- WSP began sampling of the Phase 3 residential wells on December 10, 2014. To date, water samples have been collected from 12 residential wells and the non-potable well at the U.S. Post Office branch on Reece Road. Six homeowners indicated there was no potable well on the property or declined to provide Emerson access to collect a water sample. The locations of the properties where sampling has been conducted to date are shown in Figure 6.

Table 5 summarizes the analytical results for the 13 wells sampled during December 2014. Copies of the certified laboratory reports for these well samples are included in Enclosure D. No site-related VOCs have been detected in any of the well samples collected to date from the private wells in the Phase 3 area.

3.0 Planned Activities for Next Reporting Period (January 2015 – March 2015)

3.1 Onsite Activities

Participate with representatives from MDE in a public informational meeting on January 29, 2015, for the renewal of the State Discharge Permit and NPDES Permit for the site.

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 Respond to any information requests and/or review comments from MDE and/or USEPA related to agency review of the Groundwater RAP Addendum, NPDES Permit renewal application and Water Appropriation and Use Permit application.

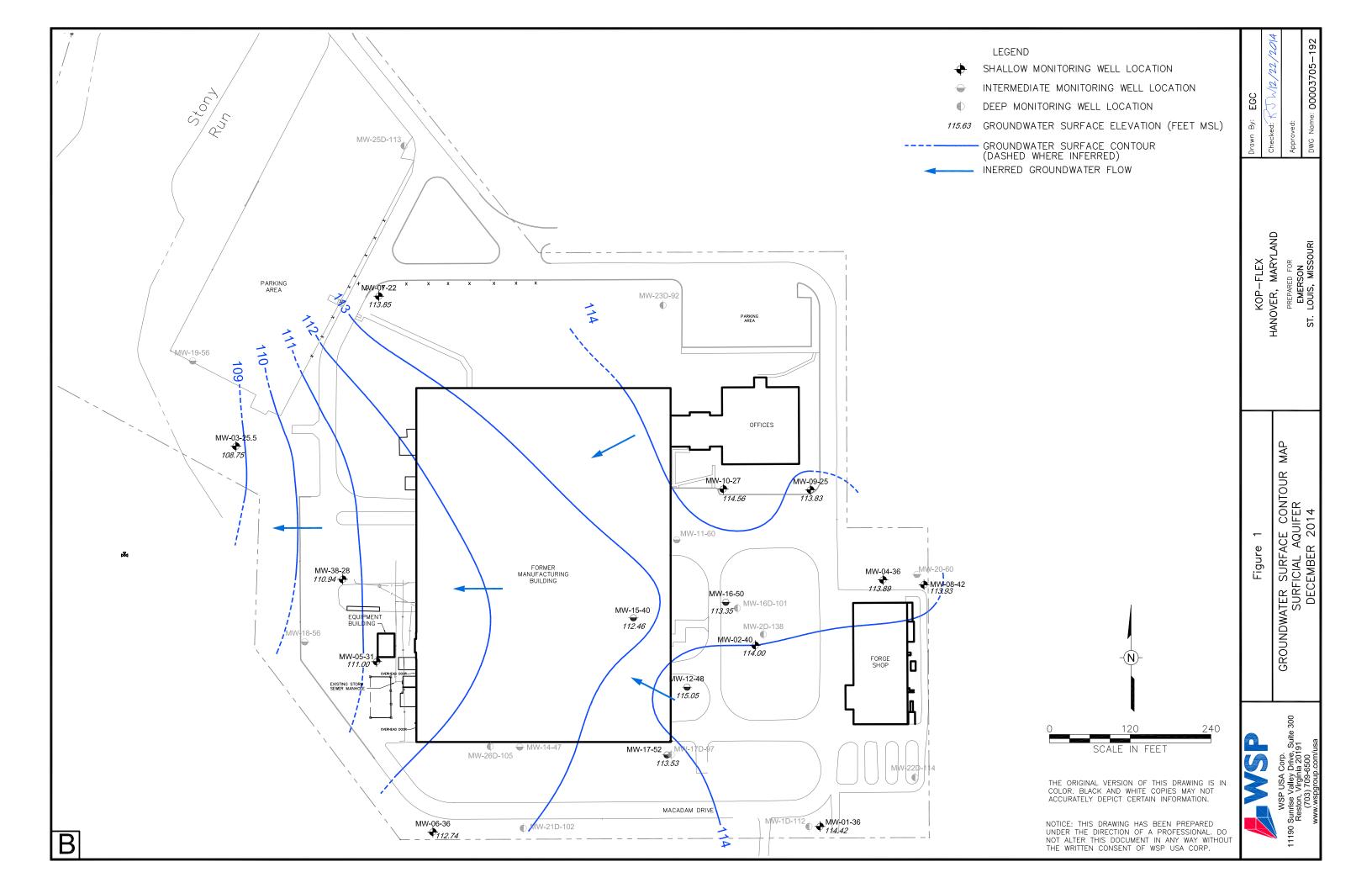
3.2 Off-Property Activities

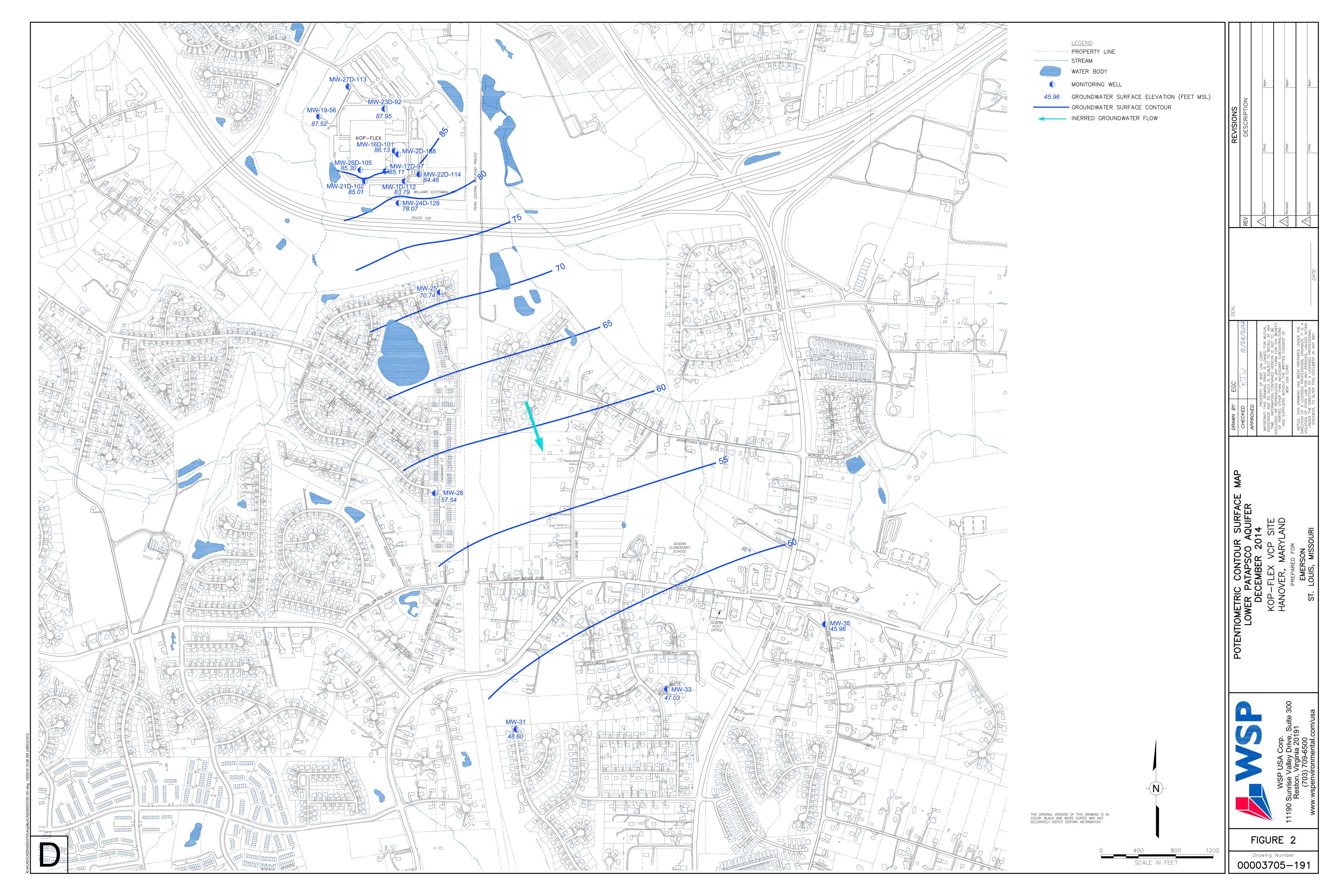
- Continue with activities related to the collection of water samples from residential wells in the Phase
 3 area, and transmittal of the sampling results to the property/well owners and MDE.
- Submittal of a letter report to MDE summarizing the results of the quarterly 2014 sampling of the six designated residential wells and recommendations, if any, for future collection of water quality samples from all or some of these wells.

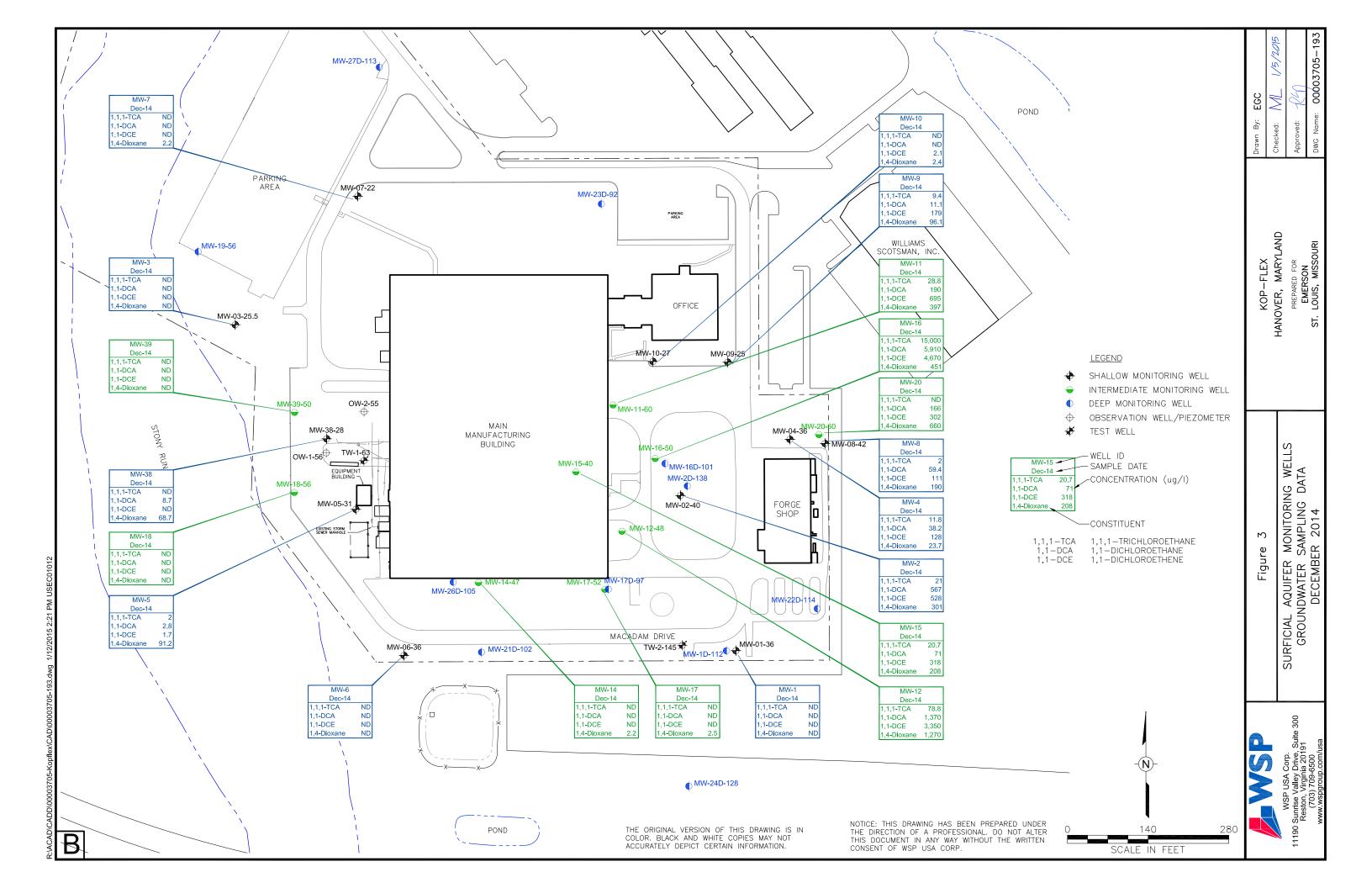
4.0 Key Personnel Changes

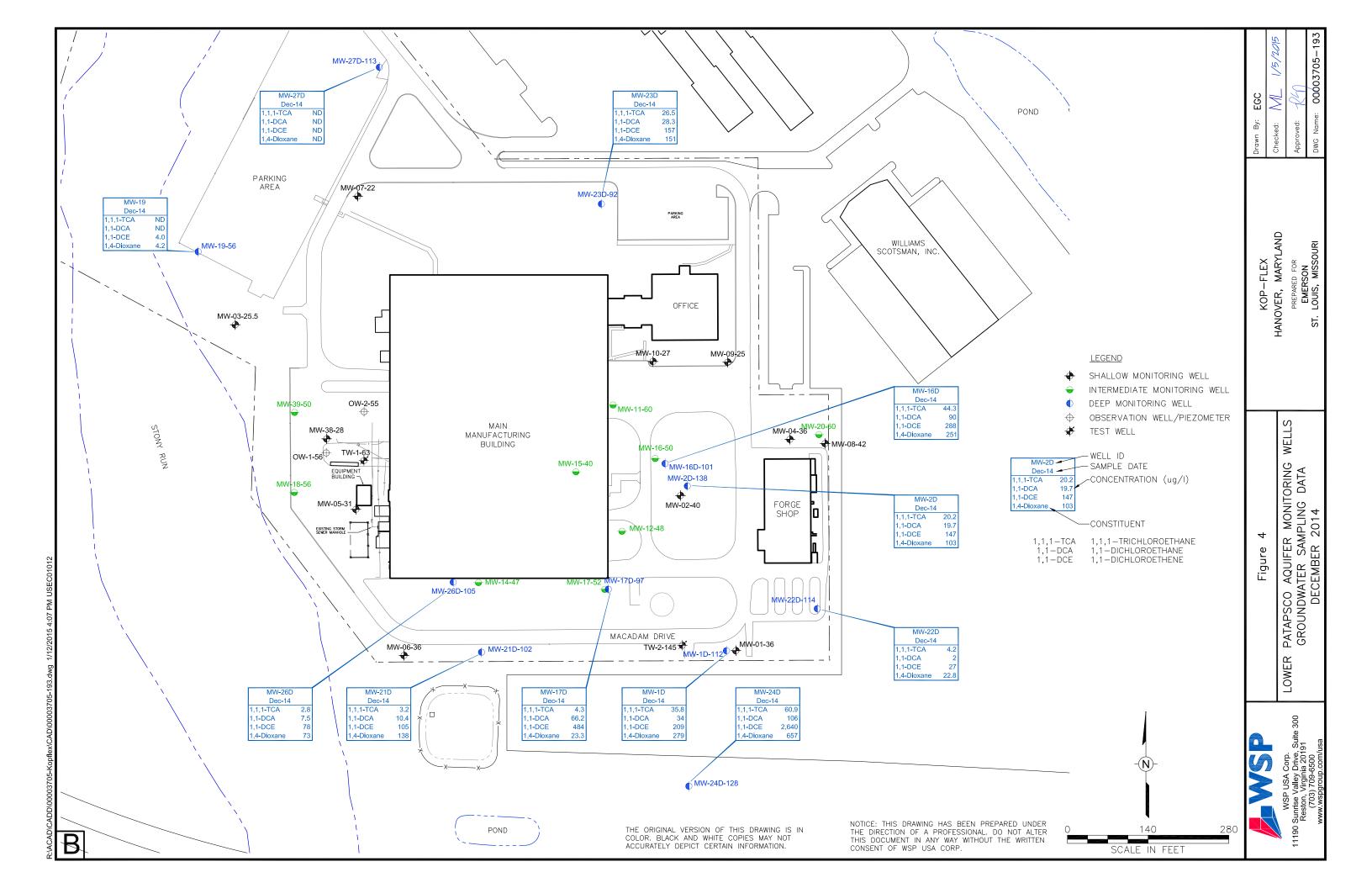
There were no changes to key project personnel during the reporting period.

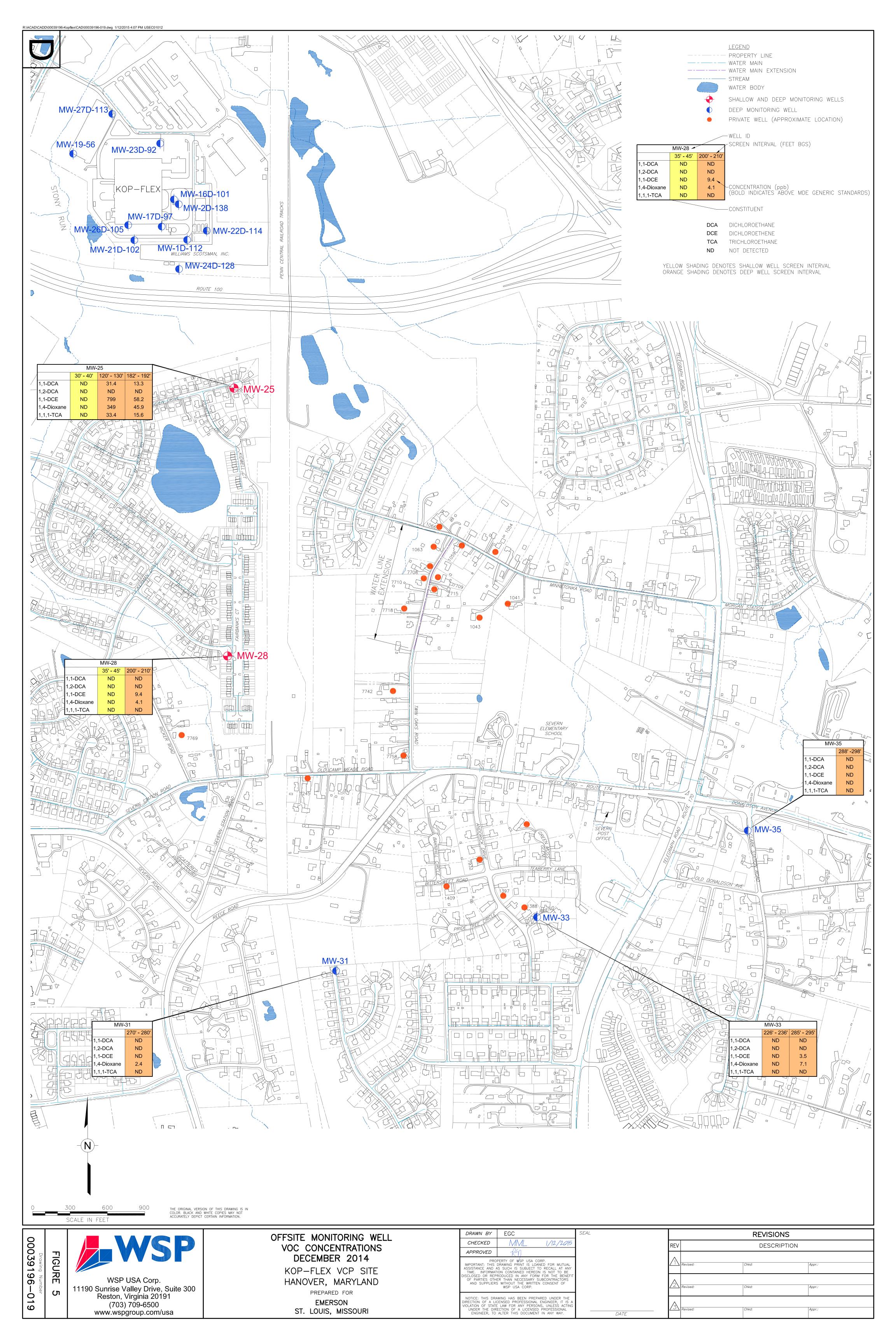
Figures

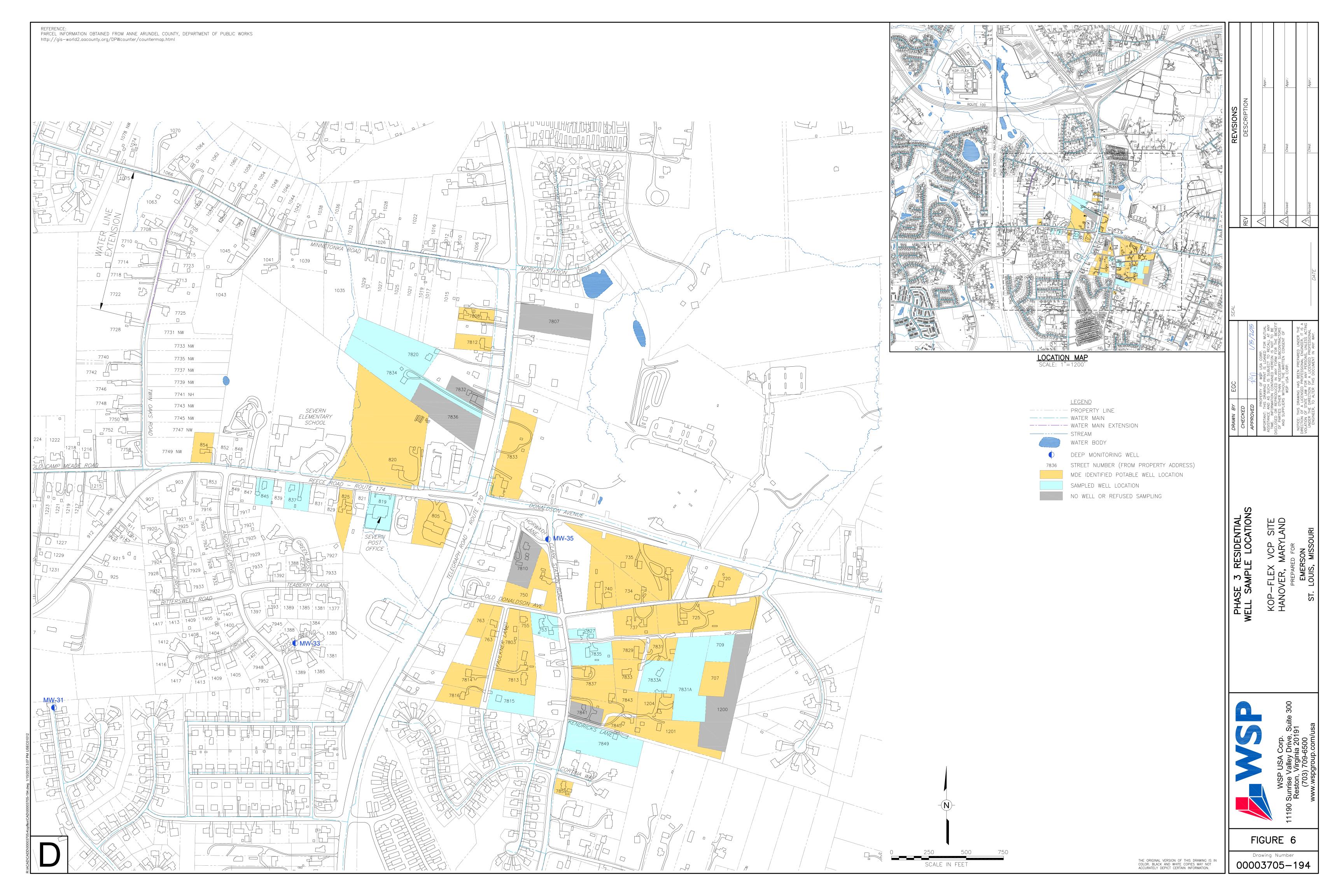












Tables

Table 1

Analyte (b)	MDE Groundwater Quality Criteria (ug/L)	MW-01-36 12/3/2014	MW-01D-112 12/4/2014	MW-02-40 12/5/2014	MW-101 12/5/2014	MW-02D-138 12/5/2014	MW-03-25.5 <u>12/2/2014</u>	MW-04-36 12/4/2014	MW-05-31 12/4/2014
1,1,1-Trichloroethane	200	1 U	35.8	21.1	24.2	20.2	1 U	11.8	2.0
1,1-Dichloroethane	90	1 U	34.0	567	740	19.7	1 U	38.2	2.8
1,1-Dichloroethene	7	1 U	209	528	657	147	1 U	128	1.7
1,2-Dichloroethane	5	1 U	4.0	7.1	8.3	1.8	1 U	2 U	1 U
Trichloroethene	5	1 U	2.5 U	5.8	6.5	1 U	1 U	2 U	1 U
1,4-Dioxane	6.7	2 U	279	301	310	103	2 U	23.7	91.2
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

a/ U = not detected at a concentration above the method detection limit.

Bolded number indicates concentration above the groundwater quality criteria.

- b/ All concentrations in micrograms per liter (µg/l)
- c/ Sample and Duplicate

The duplicate of MW-26D-105 is identified as MW-100. The duplicate of MW-02-40 is identified as MW-101.

d/ MDE Groundwater Quality Criteria sources:

http://www.mde.maryland.gov/assets/document/

Table 1

Analyte (b)	MDE Groundwater Quality Criteria (ug/L)	MW-06-36 12/2/2014	MW-07-22 12/2/2014	MW-08-42 12/3/2014	MW-09-25 12/3/2014	MW-10-27 12/3/2014	MW-11-60 12/5/2014	MW-12-48 12/5/2014	MW-14-47 12/3/2014
1,1,1-Trichloroethane	200	1 U	1 U	2.0	9.4	1 U	28.8	78.8	1 U
1,1-Dichloroethane	90	1 U	1 U	59.4	11.1	1 U	190	1,370	1 U
1,1-Dichloroethene	7	1 U	1 U	111	179	2.1	695	3,350	1 U
1,2-Dichloroethane	5	1 U	1 U	1.6	1.4	1 U	10 U	37.5	1 U
Trichloroethene	5	1 U	1 U	1.3	1 U	1 U	10 U	25 ∪	1 U
1,4-Dioxane	6.7	2 U	2.2	190	96.1	2.4	397	1270	2.2
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

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The duplicate of MW-26D-105 is identified as MW-100.

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Table 1

Analyte (b)	MDE Groundwater Quality Criteria (ug/L)	MW-15-40 12/4/2014	MW-16-50 12/5/2014	MW-16D-101 <u>12/5/2014</u>	MW-17-52 12/5/2014	MW-17D-97 <u>12/5/2014</u>	MW-18-56 12/3/2014	MW-19-56 12/2/2014	MW-20-60 12/4/2014
1,1,1-Trichloroethane	200	20.7	15,000	44.3	1 U	4.3	1 U	1 U	4 U
1,1-Dichloroethane	90	71	5,910	90.0	1 U	66.2	1 U	1 U	166
1,1-Dichloroethene 1,2-Dichloroethane	7	318	4,670	288	1 U	484	1 U	4.0	302
	5	4 U	18.9	4.1	1 U	4.6	1 U	1 U	9.3
Trichloroethene	5	4 U	63.8	1.8	1 U	2.9	1 U	1 U	4 U
1,4-Dioxane	6.7	208	451	251	2.5	23.3	2 U	4.2	660
Tetrachloroethene	5	1 U	30.7	1 U	1 U	1 U	1 U	1 U	1 U

a/ U = not detected at a concentration above the method detection limit.

Bolded number indicates concentration above the groundwater quality criteria.

- b/ All concentrations in micrograms per liter (µg/l)
- c/ Sample and Duplicate

The duplicate of MW-26D-105 is identified as MW-100. The duplicate of MW-02-40 is identified as MW-101.

d/ MDE Groundwater Quality Criteria sources:

http://www.mde.maryland.gov/assets/document/

Table 1

Analyte (b)	MDE Groundwater Quality Criteria (ug/L)	MW-21D-102 <u>12/3/2014</u>	MW-22D-114 12/4/2014	MW-23D-92 12/2/2014	MW-26D-105 <u>12/3/2014</u>	MW-100 € 12/3/2014	MW-27D-113 12/2/2014	MW-38-28 12/4/2014	MW-39-50 12/2/2014
1,1,1-Trichloroethane	200	3.2	4.2	26.5	2.8	2.6	1 U	1 U	1 U
1,1-Dichloroethane	90	10.4	2.0	28.3	7.5	6.9	1 U	8.7	1 U
1,1-Dichloroethene	7	105	27.0	157	78.1	72.9	1 U	1 U	1 U
1,2-Dichloroethane	5	1 U	1 U	1.9	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	6.7	138	22.8	151	73.0	70.5	2 U	68.7	2 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

a/ U = not detected at a concentration above the method detection limit.

Bolded number indicates concentration above the groundwater quality criteria.

- b/ All concentrations in micrograms per liter (µg/l)
- c/ Sample and Duplicate

The duplicate of MW-26D-105 is identified as MW-100.

The duplicate of MW-02-40 is identified as MW-101.

d/ MDE Groundwater Quality Criteria sources:

http://www.mde.maryland.gov/assets/document/

Table 2

Monitoring Well		Acetone	Benzene	Bromoform	2-Butanone (MEK)	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	1,4- Dioxane
MW-01-36																
	May-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	NA
	Oct-09	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NR NR	NA NA
	May-10 Oct-10	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NR NR	NA NA
	Jun-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	NA NA
	Dec-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	NA
	Jun-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	NA
	Dec-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	NA
	Jul-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Dec-13 Jun-14	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NR NR	ND ND	ND 11.6
	Dec-14	ND ND	ND	ND	ND	ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	NR	ND ND	ND
MW-01D-112	D00 14	ND	NU	ND	ND	ND	ND	NB	NB	NB	ND	110	ND	1414	NB	ND
	Jun-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	63	ND	310	NR	ND	430
	Dec-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	77	6.4	380	NR	ND	422
	Jul-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	70.9	6.2	389	NR	ND	439.0
	Dec-13 (g)	ND	ND ND	ND	ND	ND	ND ND	ND ND	ND	ND	45.2 45.7	4.40	288	NR NR	ND ND	290.0
	Jun-14 (g) Dec-14 (n)	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	45.7 34.0	4.70 4.00	320 209	NR NR	ND ND	326.0 279.0
MW-02-40	DC0 14 (II)	110	NU	NB	ND	ND	ND	NB	NB	NB	04.0	4.00	200	1414	NB	270.0
	May-09	ND	ND	ND	ND	120	ND	ND	ND	ND	1,200	9	600	7	NR	NA
	Oct-09	ND	ND	ND	17	240	ND	ND	ND	ND	2,900	12	1,200	12	NR	NA
	May-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,200	16	1,800	15	NR	NA
	Oct-10	ND ND	ND ND	ND ND	ND ND	ND 280	ND ND	ND ND	ND ND	ND ND	3,400	15 ND	2,000 2,200	13 ND	NR NR	NA NA
	Jun-11 Nov-11	ND	ND ND	ND ND	22	130	1 1	ND ND	ND ND	ND ND	3,300 1,600	15	1,800	NR NR	9	1140
	Jun-12 (d)	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	1,900	ND	1,900	NR	NĎ	983
	Dec-12	ND	ND	ND	ND	62	ND	ND	ND	ND	880	10	820	NR	5.8	747
	Jul-13	ND	ND	ND	7	47.6	ND	ND	ND	ND	755	10.3	890	NR	5.6	933.0
	Dec-13 (h)	ND	ND	ND	ND	29	ND	ND	ND	ND	486.0	5.60	457	NR	ND	671.0
	Jun-14 (h)	ND	ND	ND	ND	28.7	ND	ND	ND	ND	643.0	8.50	678	NR	ND	629.0
MW-02D-138	Dec-14 (h)	ND	ND	ND	ND	29	ND	ND	ND	ND	567	7	528	NR	ND	301
14144-02D-130	Jul-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	2	120	ND	NR	NA
	Nov-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	2	130	NR	ND	116
	Jun-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	ND	130	NR	ND	118
	Dec-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	2.0	130	NR	ND	101
	Jul-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.5	2.1	170	NR	ND	130.0
	Dec-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.0	1.50	118	NR	ND	109.0

Table 2

Monitoring Well		Acetone	Benzene	Bromoform	2-Butanone (MEK)	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	1,4- Dioxane
	Jun-14 Dec-14	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	19.7 19.7	1.80 1.80	166 147	NR NR	ND ND	121.0 103.0
MW-03-25.5																
	May-09 Oct-09	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NR NR	NA NA
	May-10	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NR NR	NA NA
	Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	NA
	Jun-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	NA
	Nov-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Jun-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Dec-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Jul-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Dec-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Jun-14 Dec-14	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NR NR	ND ND	ND ND
MW-04-36	Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	INIX	ND	ND
MW 04 00	May-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	ND	350	ND	NR	NA
	Oct-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	150	ND	410	3	NR	NA
	May-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	290	8	1,100	ND	NR	NA
	Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	3	360	ND	NR	NA
	Jun-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	81	2	200	ND	NR	NA
	Dec-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	87	2	250	NR	ND	212
	Jun-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	68	ND	180	NR	ND	158
	Dec-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	2	210	NR	ND	188
	Jul-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	108	2.3	233	NR	ND	232.0
	Dec-13 Jun-14	ND ND	ND ND	ND ND	ND ND	ND ND	ND 1.3	ND ND	ND ND	ND ND	67.0 198.0 (c)	1.40 7.20	188 908 (c)	NR NR	ND ND	178.0 456.0
	Dec-14 (g)	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	38.2	7.20 ND	128	NR	ND ND	23.7
MW-05-31	DCC 14 (g)	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.2	ND	120	IVIX	ND	20.7
	May-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	ND	4	ND	NR	NA
	Oct-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	5	ND	NR	NA
	May-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	7	ND	NR	NA
	Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	ND	4	ND	NR	NA
	Jun-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	3	ND	NR	NA
	Dec-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND	NR	ND	246
	Jun-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	NR	ND	211
	Dec-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	ND	NR	ND	245
	Jul-13 Dec-13	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	3.3 2.9	ND ND	2.2 1.5	NR NR	ND ND	205.0 137.0
	Jun-14	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	2.9 3.0	ND ND	1.5	NR NR	ND ND	92.3
	Juli-14	טוו	שוו	טוו	שוו	שוו	שוו	שויו	שוו	טוו	3.0	טוו	1.3	INIX	שוו	32.3

Table 2

Monitoring Well		Acetone	Benzene	Bromoform	2-Butanone (MEK)	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	1,4- Dioxane
	Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	1.7	NR	ND	91.2
MW-06-36	14 00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	May-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	NA
	Oct-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	NA
	May-10 Oct-10	ND ND	ND ND	ND	ND	ND ND	ND	ND	ND	ND ND	ND	ND	ND	ND ND	NR NR	NA NA
	Jun-11	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NR NR	NA NA
	Dec-11	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND	ND ND	ND ND	ND ND	NR NR	ND	ND ND
	Jun-12	ND ND	ND	ND	ND	ND	ND	ND	ND ND	ND ND	ND	ND	ND ND	NR	ND	ND
	Dec-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Jul-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Dec-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Jun-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
MW-07-22																
	May-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	NA
	Oct-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	NA
	May-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	NA
	Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	NA
	Jun-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	NA
	Dec-11	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	NR NB	ND ND	ND
	Jun-12 Dec-12	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NR NR	ND ND	ND ND
	Jul-13	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	NR	ND ND	ND ND
	Dec-13	ND ND	ND	ND ND	ND ND	ND	ND	ND	ND ND	ND ND	ND ND	ND	ND ND	NR	ND ND	2.4
	Jun-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	2.2
MW-08-42	200															
	May-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	210	5	250	1	NR	NA
	Oct-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	260	5	310	1	NR	NA
	May-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	249	5	240	1	NR	NA
	Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	3	200	ND	NR	NA
	Jun-11	ND	ND	ND	ND	ND	3	ND	ND	ND	300	6	350	1	NR	NA
	Dec-11	ND	ND	ND	ND	ND	2	ND	ND	ND	140	3	190	NR	ND	361
	Jun-12 (g)	ND	ND	ND	ND	ND	ND	ND	ND	ND	140	ND	150	NR	ND	445
	Dec-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	180	4.1	210	NR	ND	418
	Jul-13	ND	ND	ND	ND	ND	1.1	ND	ND	ND	164	4.4	208	NR	1.2	456.0
	Dec-13 Jun-14	ND ND	ND ND	ND ND	ND	ND ND	1.2 ND	ND ND	ND ND	ND ND	78.2	2.00 1.90	129 142	NR NR	ND ND	254.0
	Dec-14	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	89.9 59.4	1.60	142	NR NR	ND ND	219.0 190.0
	Dec-14	טאו	טוו	טאו	טא	שאו	טאו	טאו	שויו	טאו	59.4	1.00	111	INL	שמו	190.0

Table 2

Monitoring Well		Acetone	Benzene	Bromoform	2-Butanone (MEK)	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	1,4- Dioxane
MW-09-25																
	May-09	ND	ND	ND	ND	ND	1	ND	ND	ND	17	2	250	ND	NR	NA
	Oct-09	ND	ND	ND	ND	ND	1	ND	ND	ND	18	ND	300	ND	NR	NA
	May-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	2	240	ND	NR	NA
	Jun-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	2	290	ND ND	NR	NA 96
	Nov-11 Jun-12	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	14 8	ND	220 160	NR NR	ND ND	86 71.3
	Dec-12	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	o 12	1.2	150	NR NR	ND ND	69.2
	Jul-13	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	10.9	1.2	170	NR	ND ND	69.5
	Dec-13	ND ND	ND	ND	ND	ND	ND	ND	ND	ND ND	10.5	1.30	181	NR	ND	97.7
	Jun-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.5	1.20	193	NR	ND	53.9
	Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.1	1.40	179	NR	ND	96.1
MW-10-27												-	-			
	May-09	ND	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	4	ND	NR	NA
	Oct-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	NR	NA
	May-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	NR	NA
	Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	NR	NA
	Jun-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	NR	NA
	Nov-11	ND	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	4	NR	ND	ND
	Jun-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	3.3
	Dec-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	NR	ND	ND
	Jul-13	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	2.9	NR NR	ND ND	ND
	Dec-13 Jun-14	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	1.9 2.3	NR NR	ND ND	3.4 13.1
	Dec-14	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	2.3	NR	ND ND	2.4
MW-11-60	Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	INIX	ND	2.4
III V 11 00	May-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	67	9	740	2	NR	NA
	Oct-09	ND	ND	ND	ND	38	2	ND	ND	ND	620	16	2,100	8	NR	NA
	May-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	10	750	3	NR	NA
	Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	110	9	540	2	NR	NA
	Jun-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	94	8	720	2	NR	NA
	Dec-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	60	7	430	NR	ND	575
	Jun-12 (h)	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	ND	730	NR	ND	487
	Dec-12	ND	ND	ND	ND	40	1.9	ND	ND	ND	1,000	20	1,800	NR	12	1,160
	Jul-13	ND	ND	ND	ND	11.6	1.4	ND	ND	ND	403	13	1,360	NR	7.2	787.0
	Dec-13 (c)	ND	ND	ND	ND	38.1	ND	ND	ND	ND	742.0	12.80	1,520	NR	10.5	1,000.0
	Jun-14 (m)	ND	ND	ND	ND	ND	ND	ND	ND	ND	75.2	4.90	442	NR	ND	372.0
MW-12-48	Dec-14 (c)	ND	ND	ND	ND	ND	ND	ND	ND	ND	190.0	ND	695	NR	ND	397.0
141 44 - 1 4 - 4 0	May-09	ND	ND	ND	ND	7	2	ND	ND	ND	840	29	2,200	22	NR	NA

Table 2

Monitoring Well		Acetone	Benzene	Bromoform	2-Butanone (MEK)	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	1,4- Dioxane
	Oct-09	ND	ND	ND	ND	5	1	ND	ND	ND	680	21	1,900	16	NR	NA
	May-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,100	20	2,300	25	NR	NA
	Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	610	26	2,200	19	NR	NA
	Jun-11	ND	ND	ND	ND	11	2	ND	ND	ND	750	34	2,800	24	NR	NA
	Nov-11	ND	ND	ND	ND	6	3	ND	ND	ND	440	39	2,400	NR	22	1,550
	Jun-12 (c)	ND	ND	ND	ND	ND	ND	ND	ND	ND	430	ND	1,700	NR	ND	1,130
	Dec-12	ND	ND	ND	ND	30	2.0	ND	ND	ND	460	31	1,600	NR	19	1,240
	Jul-13 Dec-13 (I)	ND ND	ND ND	ND ND	ND ND	152 52	2.1 ND	ND ND	ND ND	ND ND	869 439.0	39.2 26.20	2,840 1,530	NR NR	35.2 ND	1,530.0 1,720.0
	Jun-14 (c)	ND ND	ND ND	ND ND	ND ND	83.6	ND ND	ND ND	ND ND	ND ND	439.0 1,210.0	43.50	3,510	NR NR	33.2	1,720.0
	Dec-14 (i)	ND ND	ND	ND ND	ND ND	145.0	ND ND	ND	ND ND	ND ND	1,370.0	37.50	3,350	NR	34.8	1,270.0
MW-14-47	Dec-14 (I)	ND	ND	ND	ND	143.0	ND	ND	ND	ND	1,370.0	37.30	3,330	INIX	34.0	1,270.0
	May-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	NA
	Oct-09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	NR	NA
	May-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	ND	NR	NA
	Oct-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	NR	NA
	Jun-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	ND	NR	NA
	Nov-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8	NR	ND	6.9
	Jun-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	NR	ND	7.4
	Dec-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	3.6
	Jul-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	NR	ND	3.0
	Dec-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Jun-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	NR	ND	3.3
BBNA/ 45 40	Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	2.2
MW-15-40	Con 10	ND	ND	ND	ND	4	4	ND	ND	ND	270	16	1 200	0	NR	NΙΔ
	Sep-10 Oct-10	ND ND	ND ND	ND ND	ND ND	4 ND	1 ND	ND ND	ND ND	ND ND	370 180	16 9	1,300 670	9	NR NR	NA NA
	Jun-11	ND ND	ND ND	ND ND	ND ND	8	ND ND	ND ND	ND ND	ND ND	210	3	300	2	NR	NA NA
	Dec-11	ND ND	ND	ND	ND	4	ND ND	ND	ND ND	ND ND	190	7	530	NR	3	345
	Jun-12 (h)	ND	ND	ND	ND	ND	ND	ND	ND	ND	200	, ND	500	NR	NĎ	575
	Dec-12	ND	ND	ND	ND	11	ND	ND	ND	ND	320	5.2	540	NR	4.2	272
	Jul-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	153	ND	465	NR	5.5	2,530.0
	Dec-13 (g)	ND	ND	ND	ND	3	ND	ND	ND	ND	181.0	3.00	289	NR	2.8	228.0
	Jun-14 (n)	ND	ND	ND	ND	ND	ND	ND	ND	ND	57.0	4.40	433 (c)	NR	5.8	92.8
	Dec-14 (m)	ND	ND	ND	ND	ND	ND	ND	ND	ND	71.0	ND	318 `´	NR	ND	208.0
MW-16-50																
	Sep-10	ND	ND	ND	23	480	13	6	3	ND	8,300	57	16,000	67	NR	NA
	Oct-10	ND	ND	ND				ND	ND	ND	4,900	42	12,000	52	NR	NA
	Jun-11	ND	ND	ND	ND	660	ND	ND	ND	ND	3,400	ND	19,000	ND	NR	NA
	Dec-11	ND	ND	ND	23	560	7	ND	1.7	ND	8,200	53	18,000	NR	59	1,930

Table 2

Monitoring Well		Acetone	Benzene	Bromoform	2-Butanone (MEK)	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	1,4- Dioxane
MW 46D 404	Jun-12 (f) Dec-12 Jul-13 Dec-13 (k) Jun-14 (k) Dec-14	ND ND 46.5 ND ND	ND ND ND ND ND	ND ND 1.8 ND ND	ND 18 ND ND ND 17	ND 460 1,290 266 278 ND	ND 5.8 7.2 ND ND 2.2	ND ND 2.7 ND ND	ND 1.3 1.4 ND ND ND	ND 1.1 ND ND ND ND	4,300 14,000 3,600 2,050.0 3,850.0 5,910.0 (p)	ND 52 61.3 ND ND 18.90	11,000 14,000 17,900 19,400 16,400 4,670 (p)	NR NR NR NR NR	ND 56 59.1 ND ND 32.6	2,050 1,740 2,260.0 2,840.0 1,570.0 451.0
MW-16D-101	Jan-11 Jun-11 Dec-11 Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14	ND ND ND ND ND ND ND	ND ND 2 ND 1.3 ND ND ND	ND ND ND ND ND ND ND	ND ND ND ND ND ND ND	3 ND ND ND ND ND ND	4 ND ND ND ND ND ND ND	ND ND ND ND ND ND ND	ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	110 100 72 49 55 54.3 43.2 57.6 90.0	4 4 ND 3 3 2.20 3.50 4.10 (n)	330 400 240 150 130 193 155 191 288	ND ND NR NR NR NR NR NR	NR NR ND ND ND ND ND ND	NA NA 267 215 189 246.0 218.0 232.0 251.0
MW-17-52	Sep-10 Oct-10 Jun-11 Nov-11 Jun-12 (c) Dec-12 Jul-13 Dec-13 Jun-14 Dec-14	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND 1 ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	10 3 2 46 ND ND ND ND ND	ND ND ND ND ND ND ND ND	7 5 2 41 ND ND 1.6 ND 2.4 ND	ND ND NR NR NR NR NR NR	NR NR ND ND ND ND ND ND	NA NA NA 22 10.2 4.4 4.3 ND 34.3 2.5
MW-17D-97 MW-18-56	Sep-10 Oct-10 Jun-11 Nov-11 Jun-12 (c) Dec-12 Jul-13 Dec-13 (m) Jun-14 (c) Dec-14 Dec-11	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	4 ND ND 15 ND 41 68.4 37 ND 2	1 ND ND 1 ND 1.3 1.3 ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	150 190 290 270 290 470 496 326.0 143.0 66.2	12 13 ND 14 ND 17 17 13.60 10.20 4.60	940 1,300 2,100 1,900 1,000 1,800 2,310 2,100 1,260 484	7 9 ND NR NR NR NR NR NR	NR NR 14 ND 19 22.3 16.8 ND 3.8	NA NA NA 575 618 669 612.0 592.0 435.0 23.3

Table 2

Monitoring Well		Acetone	Benzene	Bromoform	2-Butanone (MEK)	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	1,4- Dioxane
	Jun-12 Dec-12 Jul-13	ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND	ND ND ND	NR NR NR NR	ND ND ND	ND ND ND							
MW 40 50	Dec-13 Jun-14 Dec-14	ND ND ND	ND ND ND	ND ND ND	NR NR NR	ND ND ND	ND 4.6 ND									
MW-19-56	Dec-11 Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14	ND ND ND ND ND ND	ND ND ND ND ND ND	8 ND ND 6 3.5 3.7 105.0	NR NR NR NR NR NR	ND ND ND ND ND ND	5.9 4.0 3.6 5.5 4.1 6.3 4.2									
MW-20-60	Dec-11 Jun-12 Dec-12 Jul-13 Dec-13 (g) Jun-14 (g) Dec-14 (m)	ND ND ND ND ND ND	ND 8.5 30 83.8 121.0 173.0 166.0	ND ND 3.1 6.2 7.00 8.80 9.30	ND 51 120 255 333 359 302	NR NR NR NR NR NR	ND ND ND 1.5 ND 2.1 ND	11.9 272 506 845.0 1,230.0 1,010.0 660.0								
MW-21D-102	Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14	ND ND ND ND ND	12 14 11.9 10.1 8.3 10.4	ND ND ND ND ND	90 90 102 82.4 76.5 105.0	NR NR NR NR NR	ND ND ND ND ND ND	84.2 81.8 80.1 70.0 77.0 138.0								
MW-22D-114	Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14	ND ND ND ND ND	ND 4.5 2.7 3.7 3.5 2.0	ND ND ND ND ND	27 38 34.2 43.5 44.2 27.0	NR NR NR NR NR	ND ND ND ND ND	29 41 31.8 35.3 39.3 22.8								
MW-23D-92	Jun-12 Aug-12 Dec-12	ND ND ND	29 39 32	ND 2.2 2.0	120 130 110	NR NR NR	ND ND ND	149 NA 130								

Table 2
Summary of COCs Detected in Groundwater Samples (2009 - 2014)

On-Property Monitoring Wells
Kop-Flex VCP Site
Hanover, Maryland (a)

Monitoring Well		Acetone	Benzene	Bromoform	2-Butanone (MEK)	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	1,4- Dioxane
	Jul-13	ND	ND	ND	ND	ND	ND	1.5	ND	ND	32.7	2.3	131	NR	ND	186.0
	Dec-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	25.6	1.7	101	NR	ND	165.0
	Jun-14	ND	1.2	ND	ND	ND	ND	ND	ND	ND	29.1	2.3	101	NR	ND	132.0
	Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.3	1.90	157.0	NR	ND	151.0
MW-27D-113																
	Sep-13	ND	ND	ND	ND	ND	2.1	ND	ND	ND	ND	0.17 J	ND	NR	ND	0.9
	Dec-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND
	Jun-14	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	NR NR	ND ND	ND ND
MW-26D-105	Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	INK	ND	ND
WW-20D-103	Mar-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.4	ND	98.2	NR	ND	118.0
	Jul-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.5	ND	120	NR	ND	99.2
	Dec-13	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9	ND	51.5	NR	ND	60.7
	Jun-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.2	ND	42.4	NR	ND	39.8
	Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.5	ND	78	NR	ND	73.0
MW-38-28																
	Jun-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.5 8.7	ND	ND	NR	ND	51.8
	Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.7	ND	ND	NR	ND	68.7
MW-39-50																
	Jun-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	NR	ND	6.3
	Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND

Table 2

Monitoring Well		_	Ethylbenzene	Isopropylbenzene	p-IsopropyItoluene	Methylene Chloride	Methyl-tert-butyl Ether	Naphthalene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylene (total)	Total Detected VOCs
MW-01-36	May-09 Oct-09 May-10 Oct-10 Jun-11 Dec-11 Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14		ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND NA NA NA	NA NA NA NA NA NA ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	 12
MW-02-40	Jun-12 Dec-12 Jul-13 Dec-13 (g) Jun-14 (g) Dec-14 (n)	(I) (c) (c)	ND ND ND ND ND	ND ND NA NA NA	NA NA ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	96 120 98.8 62.4 62.4 35.8	ND 1.6 1.5 ND ND ND	ND 1.7 1.8 ND ND ND	ND ND ND ND ND	ND ND ND ND ND ND	899 1,009 1,007 690 759 562
	May-09 Oct-09 May-10 Oct-10 Jun-11 Nov-11 Jun-12 (d) Dec-12 Jul-13 Dec-13 (h) Jun-14 (h) Dec-14 (h)	(i) (c)	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND NA NA NA	NA NA NA NA NA NA ND ND ND	3 5 ND ND ND 4.4 ND ND ND ND 16.3 ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	3 7 11 11 ND 8 ND 3.6 4 ND ND ND	ND ND ND ND ND ND ND ND ND	150 380 520 2,700 ND 2,800 6,100 350 541 228.0 599.0 21	ND ND ND ND 1 ND ND ND ND ND	8 17 22 23 ND 22 ND 11 11.7 5.7 11.2 6	2 4 5 4 ND 6 ND ND 2.8 ND ND ND	ND 3 ND ND ND 3.3 ND ND ND ND ND ND ND ND	2,102 4,797 5,589 8,166 5,780 7,561 10,883 2,889 3,208 1,882 2,614 1,459
MW-02D-138	Jul-11 Nov-11 Jun-12 Dec-12 Jul-13 Dec-13	(h)	ND ND ND ND ND	ND ND ND ND NA NA	NA NA NA NA ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	28 27 28 23 23 15.9	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	166 292 292 273 344 257

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Table 2

Monitoring Well		_	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Methyl-tert-butyl Ether	Naphthalene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylene (total)	Total Detected VOCs
	Jun-14 Dec-14	(n) (n)	ND ND	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	26.9 20.2	ND ND	ND ND	ND ND	ND ND	335 292
MW-03-25.5	May-09 Oct-09 May-10 Oct-10 Jun-11 Nov-11 Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14		ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND NA NA NA	NA NA NA NA NA NA NA ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND N	ND ND ND ND ND ND ND ND ND	ND N	ND ND ND ND ND ND ND ND ND	
MW-04-36	May-09 Oct-09 May-10 Oct-10 Jun-11 Dec-11 Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14 (g)	(h) (h)	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND NA NA	NA NA NA NA NA NA NA ND ND ND	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	1 1 5 2 ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	100 100 180 75 32 47 25 26 27.9 21.3 104.0 11.8	ND ND ND ND ND ND ND ND ND ND	3 3 8 3 2 2 ND 2 2.3 1.7 8.0 ND	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	584 667 1,591 573 317 600 431 528 606 457 1,686 202
MW-05-31	May-09 Oct-09 May-10 Oct-10 Jun-11 Dec-11 Jun-12 Dec-12 Jul-13 Dec-13 Jun-14	(h)	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND NA NA	NA NA NA NA NA NA NA ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	6 6 5 5 4 ND 2.2 2.4 1.8 2.5	ND ND ND ND ND ND ND ND ND	ND N	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	19 22 25 17 15 255 218 251 213 143 100

Table 2

Monitoring Well		_	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Methyl-tert-butyl Ether	Naphthalene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylene (total)	Total Detected VOCs
	Dec-14		ND	NA	ND	ND	ND	ND	ND	ND	2.0	ND	ND	ND	ND	98
MW-06-36	Ma00		ND	ND	NIA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	May-09 Oct-09		ND ND	ND ND	NA NA	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	
	May-10		ND ND	ND ND	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
	Oct-10		ND ND	ND ND	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
	Jun-11		ND ND	ND	NA NA	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	
	Dec-11		ND ND	ND	NA NA	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	
	Jun-12		ND ND	ND	NA NA	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	
	Dec-12		ND ND	ND ND	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	
	Jul-13		ND ND	NA NA	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND ND	ND ND	
	Dec-13		ND	NA NA	ND	ND	ND	ND ND	ND	ND ND	ND	ND ND	ND	ND ND	ND ND	
	Jun-14		ND	NA NA	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND ND	
	Dec-14		ND	NA NA	ND	ND	ND	ND ND	ND	ND ND	ND	ND	ND	ND	ND	
MW-07-22	D00 14		ND	14/1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
01 22	May-09		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Oct-09		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	May-10		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Oct-10		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Jun-11		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Dec-11		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Jun-12		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Dec-12		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Jul-13		ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Dec-13		ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
	Jun-14		ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Dec-14		ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
MW-08-42																
	May-09		ND	ND	NA	ND	ND	ND	1	ND	100	ND	4	ND	ND	571
	Oct-09		ND	ND	NA	ND	ND	ND	1	ND	70	ND	4	ND	ND	651
	May-10		ND	ND	NA	ND	ND	ND	2	ND	65	ND	4	ND	ND	566
	Oct-10		ND	ND	NA	ND	ND	ND	ND	ND	25	ND	3	ND	ND	401
	Jun-11		ND	ND	NA	ND	ND	ND	1	ND	23	ND	4	ND	ND	688
	Dec-11		ND	ND	NA	ND	ND	ND	ND	ND	13	ND	2	ND	ND	711
	Jun-12 (g)		ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	735
	Dec-12		ND	ND	NA	ND	ND	ND	ND	ND	9.0	ND	3.1	ND	ND	824
	Jul-13	<i>i</i> - ·	ND	ND	ND	ND	ND	ND	1.1	ND	6.4	ND	3.6	ND	ND	846
	Dec-13	(h) (h)	ND	NA	ND	ND	ND	ND	ND	ND	4.7	ND	1.8	ND	ND	471
	Jun-14	(h)	ND	NA	ND	ND	ND	ND	ND	ND	3.3	ND	1.6	ND	ND	458
	Dec-14		ND	NA	ND	ND	ND	ND	ND	ND	2.0	ND	1.3	ND	ND	365

Table 2

Monitoring Well		_	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Methyl-tert-butyl Ether	Naphthalene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylene (total)	Total Detected VOCs
MW-09-25	May 00		ND	ND	NIA	ND	ND	ND	ND	ND	40	ND	ND	ND	ND	200
	May-09 Oct-09 May-10 Jun-11 Nov-11 Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14	(h) (h)	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND NA NA NA	NA NA NA NA NA NA NA NA ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	16 13 10 10 8 6 5.5 6.4 4.6 ND 9.4	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	286 332 268 318 330 245 238 258 295 257 297
MW-10-27			ND	ND			ND	ND	ND	ND		ND	ND	ND	ND	
MW-11-60	May-09 Oct-09 May-10 Oct-10 Jun-11 Nov-11 Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14		ND ND ND ND ND ND ND ND	ND ND ND ND ND ND NA NA NA	NA ND ND ND	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	10 3 4 3 4 8 3 2 3 5 15 5
MW-12-48	May-09 Oct-09 May-10 Oct-10 Jun-11 Dec-11 Jun-12 (h) Dec-12 Jul-13 Dec-13 (c) Jun-14 (m) Dec-14 (c)	(c) (c)	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND NA NA NA	NA NA NA NA NA NA ND ND ND	ND 4 ND ND ND ND 6.7 ND ND 9 ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	ND 3 ND ND ND ND 4 1.6 ND ND	ND ND ND ND ND ND ND ND ND	47 230 67 52 29 16 35 300 103 343.0 21.7 28.8	ND 2 ND ND ND ND 2.9 1 ND ND	4 13 5 5 3 ND ND 13 8.8 10.3 ND	ND 1 ND ND ND ND ND 1.6 ND ND	ND ND ND ND ND ND ND ND ND ND	869 3,037 965 718 856 1,088 1,382 4,360 2,699 3,677 925 1,311
191 99 - 1 2-40	May-09		ND	ND	NA	3	ND	ND	4	ND	120	3	16	2	ND	3,248

Table 2

Monitoring Well		_	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Methyl-tert-butyl Ether	Naphthalene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylene (total)	Total Detected VOCs
	Oct-09 May-10 Oct-10 Jun-11 Nov-11 Jun-12 (c) Dec-12 Jul-13 Dec-13 (l) Jun-14 (c) Dec-14 (i)	(i) (n) (n)	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND NA NA NA	NA NA NA NA NA NA ND ND ND	2 ND 3 2 ND ND 6.6 ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	3 4 3 3 ND 2.0 4 ND ND	ND ND ND ND ND ND ND ND ND	87 160 110 110 85 63 48 77.2 41.8 125.0 78.8	2 ND 2 3 4 ND 3.3 3.2 ND ND	13 9 13 16 17 ND 13 16.7 ND 17.8 ND	2 3 2 2 2 ND ND 2.6 ND ND	ND ND ND ND ND ND ND ND ND	2,732 3,621 2,985 3,758 4,573 3,323 3,448 5,578 3,809 5,205 6,286
MW-14-47	May-09 Oct-09 May-10 Oct-10 Jun-11 Nov-11 Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14		ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND NA NA NA	NA NA NA NA NA NA ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	3 5 3 5 13 12 4 6 6 2
MW-15-40	Sep-10 Oct-10 Jun-11 Dec-11 Jun-12 (h) Dec-12 Jul-13 Dec-13 (g) Jun-14 (n) Dec-14 (m)	(h) (g) (n)	ND ND ND ND ND ND ND ND	ND ND ND ND ND NA NA NA	NA NA NA NA NA ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	4 2 ND 1 ND 1.2 ND ND ND	ND ND ND ND ND ND ND ND	27 22 51 48 47 150 43.2 107.0 13.7 20.7	2 ND ND ND ND ND ND ND	15 7 2 4.7 ND 5.2 ND 2.4 ND	1 ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	1,749 897 576 1,133 1,322 1,309 3,197 817 617 618
MW-16-50	Sep-10 Oct-10 Jun-11 Dec-11		22 ND ND 12	10 ND ND 4.6	NA NA NA	28 ND ND 30	ND ND ND ND	17 ND ND 7.1	250 140 ND 110	7 ND ND 4.2	160,000 71,000 21,000 100,000	4 3 ND 3	370 190 130 220	ND 6 ND 14	101 ND ND 57	185,758 88,333 44,190 129,295

Table 2

Monitoring Well		_	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Methyl-tert-butyl Ether	Naphthalene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylene (total)	Total Detected VOCs
MW 16D 101	Jun-12 (f) Dec-12 Jul-13 Dec-13 (k) Jun-14 (k) Dec-14	(d) (i) (h)	ND 7.6 9.9 ND ND	ND 3.3 NA NA NA	NA NA ND ND ND	ND 30 29.5 ND ND 7	ND ND ND ND ND	ND 4.5 6 ND ND 3	ND 69 83.8 ND ND 30.7	ND 3.4 4.4 ND ND 1.6	41,000 30,000 29,400 12,000.0 30,500.0 15,000.0 (p)	ND 3.5 4.3 ND ND ND	ND 160 ND ND 213.0 63.8	ND 9.2 17.7 ND ND 5.1	ND 36 46.2 ND ND 17	58,350 60,661 54,832 36,556 52,811 26,236
MW-16D-101	Jan-11 Jun-11 Dec-11 Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14	(h) (h) (h)	ND ND ND ND ND ND ND	ND ND ND ND NA NA NA	NA NA NA NA ND ND ND	8 ND ND ND ND ND ND	ND ND ND ND ND ND ND	2 ND ND ND ND ND ND ND	ND ND ND ND ND ND ND	ND ND ND ND ND ND ND	82 75 64 33 29 23.8 21.3 28.9 44.3	ND ND ND ND ND ND ND	2 2 1 ND ND ND ND ND	ND ND ND ND ND ND ND	3 ND ND ND ND ND ND ND	548 581 650 447 407 520 440 513 679
MW-17-52	Sep-10 Oct-10 Jun-11 Nov-11 Jun-12 (c) Dec-12 Jul-13 Dec-13 Jun-14 Dec-14		ND ND ND ND ND ND ND ND	ND ND ND ND ND NA NA NA	NA NA NA NA NA ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	7 2 ND 22 23 ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	24 10 4 132 33 4 6 37 3
MW-17D-97 MW-18-56	Sep-10 Oct-10 Jun-11 Nov-11 Jun-12 (c) Dec-12 Jul-13 Dec-13 (m) Jun-14 (c) Dec-14 Dec-11	(1)	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND NA NA NA	NA NA NA NA NA ND ND ND ND	5 ND ND 3 ND 4.7 6.6 ND ND ND	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	1 2 ND 3 ND 1.5 2 ND ND ND	ND ND ND ND ND ND ND ND ND	26 42 29 38 ND 36.0 36.2 22.6 ND 4.3	ND ND ND 2 ND ND ND ND ND ND	9 10 ND 12 ND 11 10.9 7.9 ND 2.9	1 ND ND ND ND 1.5 ND ND ND	ND ND ND ND ND ND ND ND ND	1,156 1,566 2,419 2,847 1,908 3,071 3,584 3,116 1,848 591

Table 2

Monitoring Well		_	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Methyl-tert-butyl Ether	Naphthalene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylene (total)	Total Detected VOCs
	Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14		ND ND ND ND ND	ND ND NA NA NA	NA NA ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	 5
MW-19-56	Dec-11 Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14		ND ND ND ND ND ND	ND ND NA NA NA	NA NA ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	14 4 4 12 8 10
MW-20-60	Dec-11 Jun-12 Dec-12 Jul-13 Dec-13 (g) Jun-14 (g) Dec-14 (m)	(i) (i) (i)	ND ND ND ND ND ND	ND ND ND NA NA NA	NA NA NA ND ND ND	ND ND ND ND ND 5.6 ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND ND ND ND	ND ND ND 2 2.5 3.3 ND	ND ND ND ND ND 2.1 ND	ND ND ND ND ND ND	ND ND ND ND ND ND	12 332 659 1,194 1,694 1,564 1,137
MW-21D-102	Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14	(g)	ND ND ND ND ND	ND ND NA NA NA	NA NA ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	8 5.7 5 4.1 2.8 3.2	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	194 192 199 167 165 257
MW-22D-114	Jun-12 Dec-12 Jul-13 Dec-13 Jun-14 Dec-14	(g)	ND ND ND ND ND	ND ND NA NA NA	NA NA ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	8 10 6.5 8.4 9.0 4.2	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	64 94 75 91 96 56
MW-23D-92	Jun-12 Aug-12 Dec-12		ND ND ND	ND ND ND	NA NA NA	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	36 35 31	ND ND ND	ND ND ND	ND ND ND	ND ND ND	334 206 305

Table 2

Monitoring Well		_	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methylene Chloride	Methyl-tert-butyl Ether	Naphthalene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylene (total)	Total Detected VOCs
	Jul-13		ND	NA	ND	ND	ND	ND	ND	ND	28.6	ND	ND	ND	ND	382
	Dec-13	(h) (g)	ND	ND	ND	ND	ND	ND	ND	ND	21.3	ND	ND	ND	ND	315
	Jun-14	(g)	ND	NA	ND	ND	ND	ND	ND	ND	24.7	ND	ND	ND	ND	290
MW-27D-113	Dec-14		ND	NA	ND	ND	ND	ND	ND	ND	26.5	ND	ND	ND	ND	365
191 99-27 D-113	Sep-13	J	ND	NA	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	4
	Dec-13	0	ND	NA	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	1
	Jun-14		ND	NA	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	2
	Dec-14		ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-26D-105																
	Mar-13		ND	NA	ND	ND	ND	ND	ND	5.6	6.3	ND	ND	ND	ND	241
	Jul-13		ND	NA	ND	ND	ND	ND	ND	ND	6.6	ND	ND	ND	ND	239
	Dec-13		ND	NA	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND	ND	122
	Jun-14 Dec-14		ND ND	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	1.8 2.8	ND ND	ND ND	ND ND	ND ND	89 161
MW-38-28	Dec-14		ND	INA	ND	ND	ND	ND	ND	ND	2.0	ND	ND	ND	ND	101
WW-30-20	Jun-14		ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	61
	Dec-14		ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	77
MW-39-50																
	Jun-14		ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
	Dec-14		ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

a/ all samples measured in ppb (ug/L); E = result exceeds calibration range ND = not detected; NA = Not analyzed

b/suspected laboratory contaminant c/ sample run at a 10x dilution

K:\Emerson\Kop-Flex\Reporting\Status Reports\MDE Reports\2015\Progress Report 4\Table 2_Kop-Flex (Onsite monitoring well data) 121614.xlsx

NR = not reported

d/ sample run at 50x dilution

e/ estimated below the detection limit;

f/sample run at a 250x dilution

g/sample run at a 2x dilution

h/sample run at a 5x dilution

i/sample run at a 25x dilution

k/sample run at 200x dilution

l/sample run at 20x dilution

m/sample run at 4x dilution

n/sample run at 2.5x dilution

p/sample run at 400x dilution

Table 3

Analyte (b)	Groundwater Quality Criteria (ug/L)	MW-24D-128 12/5/2014	MW-25-40 12/9/2014	MW-25-130 12/9/2014	MW-25-190 12/9/2014	MW-28-45 12/10/2014	MW-28-210 12/10/2014	MW-31-280 12/9/2014	MW-33-235 12/10/2014	MW-33-295 12/10/2014	MW-35-298 12/11/2014
1,1,1-Trichloroethane	200	60.9	1 U	33.4	15.6	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	90	106	1 U	31.4	13.3	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	2,640	1 U	799	58.2	1 U	9.4	1 U	1 U	3.5	1 U
1,2-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	6.7	657	2 U	349	45.9	2 U	4.1	2.4	2 U	7.1	2 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

a/U = not detected at a concentration above the method detection limit

Bolded number indicates concentration above the groundwater quality criteria

RSLs: http://www.mde.maryland.gov/assets/document/Final%20Update%20No%202.1%20dated%205-20-08(1).pdf

b/ All concentrations in micrograms per liter (µg/l)

c/ Groundwater Quality Criteria sources:

Table 4

Monitoring Well	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,4- Dioxane	Methylene Chloride	Methyl-tert-butyl Ether	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Total VOCs
MW-24D-128 Jun-12 (c)	ND	ND	ND	1,300	ND	ND	342	ND	ND	ND	53	ND	ND	1,695
Aug-12	ND	72	13	1,600	6	ND	NA	ND	ND	1.7	60	1.5	13	1,767
Dec-12	1.3	61	12	1,500	6.7	ND	393	ND	ND	1.8	62	1.5	16	2,055
Jul-13	1.2	57.7	10.8	1,520	6.2	1.1	470.0	ND	ND	1.4	48.7	1.3	12.4	2,131
Dec-13 (c) Jun-14 (c)	ND ND	47.4 57.3	ND 11.3	1,190 1,510	ND ND	ND ND	433.0 488.0	ND ND	ND ND	ND ND	34.1 43.4	ND ND	10.1 14.2	1,715 2,124
Dec-14 (I)	ND ND	106.0	ND	2,640	ND ND	ND ND	466.0 657.0 (c)	ND ND	ND ND	ND ND	43.4 60.9	ND ND	14.2 ND	3,464
MW-25-40	ND	100.0	ND	2,040	ND	ND	037.0 (0)	ND	ND	ND	00.9	ND	ND	3,404
Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	2
MW-25-130														
Sep-14	1.5	47.0	12.30	1,140.0	6.1	ND	492.0	ND	ND	1.1	64.2	2.0	11.2	1,777
Dec-14 (c)	ND	31.4	ND	799.0	ND	ND	349.0	26	ND	ND	33.4	ND	ND	1,238
MW-25-190	ND	40.0	ND	50.0	ND	ND	05.4	ND	ND	ND	440	ND	ND	4.40
Sep-14 Dec-14	ND ND	10.8 13.3	ND ND	52.2 58.2	ND ND	ND ND	65.1 45.9	ND ND	ND ND	ND ND	14.0 15.6	ND ND	ND ND	142 133
MW-28-45	ND	13.3	ND	30.2	ND	ND	45.5	ND	ND	ND	13.0	ND	ND	133
Sep-14	ND	ND	ND	ND	ND	ND	6.5	ND	ND	ND	ND	ND	ND	7
Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-28-210														
Sep-14	ND	ND	ND	6.8	ND	ND	5.1	ND	ND	ND	ND	ND	ND	12 14
Dec-14	ND	ND	ND	9.4	ND	ND	4.1	ND	ND	ND	ND	ND	ND	14
MW-31-280 Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dec-14	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	2.4	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	2
MW-33-235	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND	ND	ND	ND	_
Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-33-295														
Sep-14	ND	ND	ND	3.3	ND	ND	7.2	ND	ND	ND	ND	ND	ND	11
Dec-14	ND	ND	ND	3.5	ND	ND	7.1	ND	ND	ND	ND	ND	ND	11
MW-35-298	ND	ND	ND	ND	ND	ND	20.7	ND	ND	ND	ND	ND	ND	07
Sep-14 Dec-14	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	36.7 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	37
Dec-14	טעו	טא	טא	טא	טאו	טוו	ND	טא	טא	ND	טא	טא	טאו	

a/ all samples measured in ppb (ug/L);

all samples collected using low-flow purging techniques

e = as estimated below the detection limit;

E = result exceeds calibration range

ND = not detected; NA = Not analyzed

b/suspected laboratory contaminant c/ sample run at a 10x dilution

d/ sample run at 50x dilution

f/sample run at a 250x dilution g/sample run at a 2x dilution

h/sample run at a 5x dilution

i/sample run at a 25x dilution

k/sample run at 200x dilution

l/sample run at 20x dilution

m/sample run at 4x dilution

n/sample run at 2.5x dilution p/sample run at 400x dilution

Table 5

Phase 3 Residential Well Sampling Results December 2014 Kop-Flex VCP Site Hanover, Maryland

	Sample ID:	RW-7815-FN- 121014	RW-7815-FN- 121014F	RW-7831A-CS- 121014	RW-7833A-CS- 121014	RW-753-DNS- 121214	RW-819-REE- 121214	RW-845-REE- 121214	RW-7834TEL- 121814	RW-7834TEL- 121814F
	Sample Type: Sample Date:	Pre-Treatment 12/10/2014	Post Treatment 12/10/2014	Pre-Treatment 12/10/2014	Pre-Treatment 12/10/2014	Pre-Treatment 12/12/2014	Pre-Treatment 12/12/2014	Pre-Treatment 12/12/2014	Pre-Treatment 12/18/2014	Post Treatment 12/18/2014
Parameters (ug/L)	MCL									
Benzene	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	J 0.50 U
Chloroform	80 (a)	0.50 U	0.50 U	0.17 J	0.50 U	0.26 J	0.50 U	0.50 U	0.50 U	J 0.50 U
1,1-Dichloroethane	90 (a)	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	J 0.50 U
1,1-Dichloroethylene	7	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	J 0.50 U
Methyl Tert Butyl Ether	20 (a)	0.50	0.46 J	1.2	0.50 U	1.1	0.50 U	1.7	0.50 U	J 0.50 U
Styrene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	J 0.17 J
1,1,1-Trichloroethane	200	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	J 0.50 U
Tetrachloroethylene	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	J 0.50 U
Trichloroethylene	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	J 0.50 U
1,4-Dioxane	6.7 (b)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	J 2.0 U

⁽a) Maryland Department of Environment Action Level

Notes:

MCL - US Environmental Protection Agency (EPA)

Maximum Contaminant Level

U - Undetected, value reported is quantification limit

⁽b) Maryland Risk Based Level

Table 5

Phase 3 Residential Well Sampling Results December 2014 Kop-Flex VCP Site Hanover, Maryland

	Sample ID: Sample Type: Sample Date:	RW-7835CS- 121814 Pre-Treatment 12/18/2014	RW-7849CS- 121714 Pre-Treatment 12/17/2014	RW-837REE- 121714 Pre-Treatment 12/17/2014	RW-837REE- 121714F Post Treatment 12/17/2014	RW-7090DA- 122214 Pre-Treatment 12/22/2014	RW-7820TELE 123014 Pre-Treatment 12/30/2014	RW-7827CS 123014 Pre-Treatment 12/30/2014
Parameters (ug/L)	MCL							
Benzene	5	0.18 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	80 (a)	0.11 J	0.19 J	0.50 U	0.50 U	0.19 J	0.14 J	0.50 U
1,1-Dichloroethane	90 (a)	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethylene	7	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Tert Butyl Ether	20 (a)	4.7	0.37 J	0.80	0.83	0.30 J	0.34 J	1.4
Styrene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	200	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethylene	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethylene	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dioxane	6.7 (b)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

⁽a) Maryland Department of Environment Action Level

Notes:

MCL - US Environmental Protection Agency (EPA)
Maximum Contaminant Level

U - Undetected, value reported is quantification limit

⁽b) Maryland Risk Based Level

Enclosure A – Laboratory Report for December 2014 Onsite Monitoring Well Samples

Enclosure B – Laboratory Report for December 2014 Offsite Monitoring Well Samples

Enclosure C – Laboratory Report for December 2014 Quarterly Residential Well Samples

Enclosure D – Laboratory Reports for Phase 3 Residential Well Sampling Events