Property Management

Ms. Jackson and Mr. Miller,

It is with sincere pleasure that I can now officially request that the Oil Control Program (OCP) Case 2016-0467-BA be considered for closing. Monthly gauging and quarterly sampling of 4 on-site wells (MW-1, MW-4, MW-5 (MW-5A) and MW-6) began in April of 2017. In the past 24-months there has been no free product detected in MW-1, MW-4 or MW-6 and only 3 free product detections in MW-5. The last detection being in January of 2018. We are in agreement with the recommendations provided on page 3 of the attached report.

We appreciate the guidance and encouragement that the Maryland Department of the Environment has given to Baltimore County Government over the past couple of years. As you are aware, due diligence in our efforts to ensure the health and welfare of our environment and citizenry has always been at the forefront of our endeavors. We look forward to hearing from you.

Regards

John H. Messler

John H. Messler

Facilities Inspector

Property Management

Baltimore County Government

March 28, 2019

Mr. Stephen Jerrick
A. Morton Thomas & Associates, Inc.
800 King Farm Blvd, Fourth Floor
Rockville, MD 20850

Re: Quarterly Monitoring Report – 1st Quarter 2019 Groundwater Monitoring
North Point Government Center
7701 Wise Avenue
Dundalk, Maryland
OCP Case No.: 2016-0467-BA
Apex Job No.: AMORT-009-2018

Dear Mr. Jerrick:

Apex Companies, LLC (Apex) has prepared this report for the above-referenced site (subject property) on behalf of A. Morton Thomas & Associates, Inc. (AMT) to document activities completed during the 1st Quarter 2019. A site location map is included as **Figure 1**.

In February 2016, Oil Control Program (OCP) Case 2016-0467-BA was opened following a confirmed release from a supply line associated with an underground storage tank (UST) located at the subject property. Apex completed a site investigation in August 2016 that identified petroleum impacted soil and groundwater in the vicinity of the former UST system, which was removed in February 2016. Based on Apex's site assessment, MDE recommended additional work that included the installation of three groundwater monitoring wells; monthly gauging of four wells identified as MW-1, MW-4, MW-5 (MW-5A), and MW-6 as well as quarterly sampling of these four wells. The following is a summary of activities completed at the site:

- Discovery of suspected leak – February 2016
- UST system removal and Closure Report – March 2016
- MDE Request for Work Plan – May 2016
- Work Plan for site assessment activities submitted and approved – June/July 2016
- Soil and groundwater sampling, storm drain inspection and sampling – August 2016
- Site Assessment Report – September 2016
- Stream Inspection and Re-inspection Reports – September/October 2016
- MDE Request for Work Plan – December 2016
- Work Plan for additional site assessment activities submitted and approved – January/February 2017
- Completion of monitoring well installations and storm drain cleaning – March 2017
- Commence monthly gauging and quarterly sampling – April 2017
- Additional Site Assessment Report – May 2017
- Abandonment of MW-5 – February 2018
- Installation of MW-5A – April 2018

MONITORING WELL GAUGING

During January, February, and March 2019, Apex completed monthly gauging of the four monitoring wells identified as MW-1, MW-4, MW-5A, and MW-6. Monitoring well locations are provided on **Figure 2**. Results of the monthly gauging completed during the 1st Quarter 2019 are provided in **Table 1**. Measurable Light Non-Aqueous Phase Liquids (LNAPL) or free product was not detected in the four on-site wells gauged as part of the monthly monitoring.

TABLE 1
Monthly Well Gauging Summary

North Point Government Center
7701 Wise Avenue
Dundalk, Maryland

Well	Date	TOC Elevation (feet)	Depth to Product from TOC (feet)	Depth to Water from TOC (feet)	Product Thickness (feet)	Groundwater Elevation (feet)	Corrected Groundwater Elevation (feet)
MW-1		32.23	--	14.20	--	18.03	--
			--	14.09	--	18.14	--
			--	13.85	--	18.38	--
MW-4		33.78	--	15.93	--	17.85	--
			--	15.98	--	17.80	--
			--	15.76	--	18.02	--
MW-5A		31.59	--	13.31	--	18.28	--
			--	13.32	--	18.27	--
			--	13.13	--	18.46	--
MW-6		32.44	--	14.82	--	17.62	--
			--	14.90	--	17.54	--
			--	14.64	--	17.80	--

MONITORING WELL SAMPLING

On March 13, 2019, Apex mobilized to the site to sample the four on-site monitoring wells (MW-1, MW-4, MW-5A, and MW-6). Prior to sampling, the monitoring wells were gauged with an oil/water interface probe. Measurable LNAPL was not detected in the four monitoring wells during the 1st Quarter 2019 sampling event. The monitoring well locations are depicted on **Figure 2**.

Relative groundwater elevations were calculated by subtracting the depth-to-water reading from the top of casing elevation in each monitoring well. The recorded depth-to-water levels are presented in **Table 1**. A summary of groundwater elevations to date is provided in **Table 2**. An approximated groundwater contour map was constructed and is presented as **Figure 3**. Based on the relative groundwater elevations, groundwater flow is anticipated to be in a south-southeast direction.

The groundwater samples were collected from each monitoring well using low-flow purging and sampling procedures. A peristaltic pump and dedicated disposable polyethylene (PE) tubing were used to purge the wells. Once groundwater parameters stabilized (+/- 10%), the groundwater samples were collected. The samples were retained in laboratory prepared glassware, labeled, and placed in a cooler with ice for preservation. Samples were then delivered to SGS Laboratories for analysis following proper chain-of-custody procedures. The samples were analyzed for volatile organic compounds (VOCs) including fuel oxygenates and naphthalene using U.S. Environmental Protection Agency (EPA) Method 8260; and total petroleum hydrocarbons for diesel range organics (TPH-DRO) using EPA Method 8015C. Apex compared the groundwater sample analytical results to the Maryland Generic Numeric Cleanup Standards for Groundwater (Groundwater Cleanup Standards) published in the MDE Interim Final Guidance dated October 2018.

The laboratory analytical results are summarized on **Table 3** and the laboratory data sheets are included in **Attachment 1**. Based on the results of the 1st Quarter 2019 sampling, concentrations of TPH-DRO and VOCs were not detected at concentrations that exceeded the Groundwater Cleanup Standards except for the TPH-DRO concentration in MW-5A (0.350 mg/L) which exceeded the Groundwater Cleanup Standard of 0.047 mg/L. A TPH-DRO isoconcentration map is provided as **Figure 4**.

SUMMARY of ACTIVITIES and RECOMMENDATIONS

During the 1st Quarter 2019, Apex gauged the four monitoring wells (MW-1, MW-4, MW-5A, and MW-6) on a monthly basis. Measurable LNAPL was not detected in the four monitoring wells during the 1st Quarter 2019. Based on the results of the 1st Quarter 2019 sampling, concentrations of VOCs were not detected at concentrations that exceeded the Groundwater Cleanup Standards. TPH-DRO concentrations in MW-1, MW-4 and MW-6 were not detected at concentrations that exceeded the Groundwater Cleanup Standards; however, the TPH-DRO concentration in MW-5A (0.350 mg/L) exceeded the Groundwater Cleanup Standards.

Measurable LNAPL has not been detected in MW-1, -4 or -6 since the commencement of quarterly gauging and sampling in April 2017 and has not been measured in MW-5A since the installation in April 2018. Concentrations of VOCs and TPH-DRO have not exceeded their respective Groundwater Cleanup Standards with the exception of TPH-DRO in MW-5/5A. TPH-DRO concentrations in MW-5/5A have decreased over time and appear to be limited to the release area around the former piping run. Based on the groundwater data collected to date, Apex recommends no further action is necessary and requests case closure of OCP Case #2016-0467-BA.

Apex appreciates the opportunity to provide these services. Should you have any questions or require additional information, please contact us at (301) 417-0200.

Sincerely,
Apex Companies, LLC

Todd R. Passmore
Project Manager
Maryland Division

TABLES and FIGURES

Table 2 - Groundwater Gauging Results
North Point Government Center
7701 Wise Avenue, Dundalk, Maryland

Well	Date	TOC Elevation (feet)	Depth to Product from TOC (feet)	Depth to Water from TOC (feet)	Product Thickness (feet)	Groundwater Elevation (feet)
MW-1	4/3/2017	32.23	--	17.88	--	14.35
	5/17/2017		--	17.69	--	14.54
	6/14/2017		--	17.71	--	14.52
	7/12/2017		--	17.81	--	14.42
	8/9/2017		--	17.69	--	14.54
	9/13/2017		--	17.55	--	14.68
	10/10/2017		--	17.59	--	14.64
	11/8/2017		--	17.74	--	14.49
	12/13/2017		--	17.96	--	14.27
	1/10/2018		--	17.91	--	14.32
	2/14/2018		--	17.76	--	14.47
	3/29/2018		--	17.69	--	14.54
	4/18/2018		--	17.76	--	14.47
	5/10/2018		--	17.50	--	14.73
	6/13/2018		--	16.50	--	15.73
	7/11/2018		--	15.79	--	16.44
	8/15/2018		--	15.23	--	17.00
	9/12/2018		--	15.35	--	16.88
	10/10/2018		--	15.50	--	16.73
	11/7/2018		--	15.21	--	17.02
	12/5/2018		--	14.55	--	17.68
	1/16/2019		--	14.20	--	18.03
	2/13/2019		--	14.09	--	18.14
	3/13/2019		--	13.85	--	18.38
MW-4	4/3/2017	33.78	--	19.86	--	13.92
	5/17/2017		--	19.61	--	14.17
	6/14/2017		--	19.56	--	14.22
	7/12/2017		--	19.69	--	14.09
	8/9/2017		--	19.61	--	14.17
	9/13/2017		--	19.43	--	14.35
	10/10/2017		--	19.51	--	14.27
	11/8/2017		--	19.73	--	14.05
	12/13/2017		--	19.89	--	13.89
	1/10/2018		--	19.96	--	13.82
	2/14/2018		--	19.65	--	14.13
	3/29/2018		--	19.57	--	14.21
	4/18/2018		--	19.84	--	13.94
	5/10/2018		--	19.47	--	14.31
	6/13/2018		--	18.38	--	15.40
	7/11/2018		--	17.83	--	15.95
	8/15/2018		--	17.14	--	16.64
	9/12/2018		--	17.26	--	16.52
	10/10/2018		--	17.07	--	16.71
	11/7/2018		--	17.21	--	16.57
	12/5/2018		--	16.44	--	17.34
	1/16/2019		--	15.93	--	17.85
	2/13/2019		--	15.98	--	17.80
	3/13/2019		--	15.76	--	18.02

Well	Date	TOC Elevation (feet)	Depth to Product from TOC (feet)	Depth to Water from TOC (feet)	Product Thickness (feet)	Groundwater Elevation (feet)
MW-5	4/3/2017	31.54	--	17.47	--	14.07
	5/17/2017		--	17.23	--	14.31
	6/14/2017		--	17.19	--	14.35
	7/12/2017		17.31	17.34	0.03	14.20
	8/9/2017		--	17.22	--	14.32
	9/13/2017		--	17.05	--	14.49
	10/10/2017		--	17.16	--	14.38
	11/8/2017		--	17.33	--	14.21
	12/13/2017		17.39	18.10	0.71	13.44
	1/10/2018		17.46	18.21	0.75	13.33
MW-5A	4/18/2018	31.59	--	16.95	--	14.59
	5/10/2018		--	16.80	--	14.79
	6/13/2018		--	15.73	--	15.86
	7/11/2018		--	15.19	--	16.40
	8/15/2018		--	14.52	--	17.07
	9/12/2018		--	14.64	--	16.95
	10/10/2018		--	14.44	--	17.15
	11/7/2018		--	14.55	--	17.04
	12/5/2018		--	13.81	--	17.78
	1/16/2019		--	13.31	--	18.28
	2/13/2019		--	13.32	--	18.27
	3/13/2019		--	13.13	--	18.46
MW-6	4/3/2017	32.44	--	18.82	--	13.62
	5/17/2017		--	18.56	--	13.88
	6/14/2017		--	18.51	--	13.93
	7/12/2017		--	18.65	--	13.79
	8/9/2017		--	18.56	--	13.88
	9/13/2017		--	18.38	--	14.06
	10/10/2017		--	18.47	--	13.97
	11/8/2017		--	18.70	--	13.74
	12/13/2017		--	18.88	--	13.56
	1/10/2018		--	18.91	--	13.53
	2/14/2018		--	18.71	--	13.73
	3/29/2018		--	18.56	--	13.88
	4/18/2018		--	18.58	--	13.86
	5/10/2018		--	18.41	--	14.03
	6/13/2018		--	17.28	--	15.16
	7/11/2018		--	16.75	--	15.69
	8/15/2018		--	16.05	--	16.39
	9/12/2018		--	16.20	--	16.24
	10/10/2018		--	15.99	--	16.45
	11/7/2018		--	16.14	--	16.30
	12/5/2018		--	15.34	--	17.10
	1/16/2019		--	14.82	--	17.62
	2/13/2019		--	14.90	--	17.54
	3/13/2019		--	14.64	--	17.80

Notes:

TOC = Top of Casing

-- = product not detected

Apex Companies, LLC

Project:

Project Number:

Table 3 - Groundwater Results

North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

AMORT-009

Legend: Hit | Exceed

Client Sample ID:	Units	MDE Cleanup Standards - Groundwater Type I/II Aquifers (MDE 10/2018)	MW1								MW4								
Lab Sample ID:			JC45322-1	JC50899-1	JC57653-1	JC63321-1	JC68086-1	JC73819-1	JC79430-1	JC84539-1	JC40368-1	JC45322-2	JC50899-2	JC57653-2	JC63321-2	JC68086-2	JC73819-2	JC79430-2	JC84539-2
Date Sampled:			6/14/2017	9/13/2017	12/13/2017	3/29/2018	6/13/2018	9/12/2018	12/5/2018	3/13/2019	4/3/2017	6/14/2017	9/13/2017	12/13/2017	3/29/2018	6/13/2018	9/12/2018	12/5/2018	3/13/2019
Matrix:			Groundwater								Groundwater								
GC/MS Volatiles (SW846 8260C)																			
Acetone	µg/l	1400	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (6.0)	ND (6.0)	ND (6.0)
Benzene	µg/l	5	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.43)	ND (0.43)	ND (0.43)
Bromobenzene	µg/l	-	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.22)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.55)	ND (0.55)	ND (0.55)
Bromochloromethane	µg/l	-	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.46)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.48)	ND (0.48)	ND (0.48)
Bromodichloromethane	µg/l	80	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.55)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.58)	ND (0.58)	ND (0.58)
Bromoform	µg/l	80	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.34)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.63)	ND (0.63)	ND (0.63)
Bromomethane	µg/l	0.75	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.6)	ND (1.6)	ND (1.6)	ND (0.46)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.6)	ND (1.6)	ND (1.6)
2-Butanone (MEK)	µg/l	560	ND (4.8)	ND (4.8)	ND (4.8)	ND (4.8)	ND (4.8)	ND (6.9)	ND (6.9)	ND (6.9)	ND (1.9)	ND (4.8)	ND (4.8)	ND (4.8)	ND (4.8)	ND (4.8)	ND (6.9)	ND (6.9)	ND (6.9)
n-Butylbenzene	µg/l	-	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.52)	ND (0.52)	ND (0.52)
sec-Butylbenzene	µg/l	-	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.62)	ND (0.62)	ND (0.62)	ND (1.0)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.62)	ND (0.62)	ND (0.62)
tert-Butylbenzene	µg/l	-	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.28)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.69)	ND (0.69)	ND (0.69)
Carbon tetrachloride	µg/l	5	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.54)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.55)	ND (0.55)	ND (0.55)
Chlorobenzene	µg/l	100	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.17)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.56)	ND (0.56)	ND (0.56)
Chloroethane	µg/l	-	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.44)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.73)	ND (0.73)	ND (0.73)
Chloroform	µg/l	80	1.1	1.3	1.9	1.5	1.3	3.4	4.3	3.8	15.8	19.7	17.4	19.7	16.8	21	17.3	14.2	12.3
Chloromethane	µg/l	19	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53) [a]	ND (0.76)	ND (0.76) [a]	1.2	ND (0.96)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53) [a]	ND (0.76)	ND (0.76) a	ND (0.76)
o-Chlorotoluene	µg/l	-	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.18)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.63)	ND (0.63)	ND (0.63)
p-Chlorotoluene	µg/l	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.29)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.60)	ND (0.60)	ND (0.60)
Di-Isopropyl ether	µg/l	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.41)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.68)	ND (0.68)	ND (0.68)
1,2-Dibromo-3-chloropropane	µg/l	0.20	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (1.2)	ND (1.2)	ND (1.2)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (1.2)	ND (1.2)	ND (1.2)
Dibromochloromethane	µg/l	80	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.56)	ND (0.56)	ND (0.56)
1,2-Dibromoethane	µg/l	0.05	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.48)	ND (0.48)	ND (0.48)
1,2-Dichlorobenzene	µg/l	600	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.53)
1,3-Dichlorobenzene	µg/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.19)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.54)	ND (0.54)
1,4-Dichlorobenzene	µg/l	75	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.21)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)
Dichlorodifluoromethane	µg/l	-	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9) [a]	ND (1.4)	ND (1.4)	ND (1.4)	ND (0.70)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9) [a]	ND (1.4)	ND (1.4)	ND (1.4)
1,1-Dichloroethane	µg/l	2.8	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.57)	ND (0.57)	ND (0.57)
1,2-Dichloroethane	µg/l	5	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.39)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.60)	ND (0.60)	ND (0.60)
1,1-Dichloroethene	µg/l	7	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.20)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.59)	ND (0.59)	ND (0.59)
cis-1,2-Dichloroethene	µg/l	70	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.31)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)
trans-1,2-Dichloroethene	µg/l	100	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.36)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.54)	ND (0.54)	ND (0.54)
1,2-Dichloropropane	µg/l	5	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.33)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.51)	ND (0.51)	ND (0.51)
1,3-Dichloropropane	µg/l	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.43)	ND (0.43)	ND (0.43)
2,2-Dichloropropane	µg/l	-	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.42)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.52)	ND (0.52)	ND (0.52)
1,1-Dichloropropene	µg/l	-	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.82)	ND (0.82)	ND (0.82)	ND (0.20)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.82)	ND (0.82)	ND (0.82)
cis-1,3-Dichloropropene	µg/l	-	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.19)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.47)	ND (0.47)	ND (0.47)
trans-1,3-Dichloropropene	µg/l	-	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.26)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.43)	ND (0.43)	ND (0.43)
Ethylbenzene	µg/l	700	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.20)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.60)	ND (0.60)	ND (0.60)
Hexachlorobutadiene	µg/l	0.14	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.22)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.56)	ND (0.56)	ND (0.56)
Isopropylbenzene	µg/l	-	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.16)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.65)	ND (0.65)	ND (0.65)
p-Isopropyltoluene	µg/l	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.66)	ND (0.66)	ND (0.66)	ND (1.0)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.66)	ND (0.66)	ND (0.66)
Methyl Tert Butyl Ether	µg/l	20	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.34)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.51)	ND (0.51)	ND (0.51)
4-Methyl-2-pentanone(MIBK)	µg/l	630	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.2)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.9)	ND (1.9)	ND (1.9)
Methylene bromide	µg/l	-	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.28)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.48)	ND (0.48)	ND (0.48)
Methylene chloride	µg/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Naphthalene	µg/l	0.17	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (0.98)	ND (0.98)	ND (0.98)	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (0.98)	ND (0.98)	ND (0.98)
n-Propylbenzene	µg/l	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.17)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.60)	ND (0.60)	ND (0.60)
Styrene	µg/l	100	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.27)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.70)	ND (0.70)	ND (0.70)
Tert Butyl Alcohol	µg/l	-	ND (7.0)	ND (7.0)	ND (7.0)	ND (7.0)	ND (7.0)	ND (5.8)	ND (5.8)	ND (5.8)	ND (3.0)	ND (7.0)	ND (7.0)	ND (7.0)	ND (7.0)	ND (7.0)	ND (5.8)	ND (5.8)	ND (5.8)
tert-Amyl Methyl Ether	µg/l	-	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.23)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.47)	ND (0.47)	ND (0.47)
tert-Butyl Ethyl Ether	µg/l	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.23)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.56)	ND (0.56)	ND (0.56)
1,1,1,2-Tetrachloroethane	µg/l	-	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.17)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.60)	ND (0.60)	ND (0.60)
1,1,2,2-Tetrachloroethane	µg/l	0.076	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.39)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.65)	ND (0.65)	ND (0.65)
Tetrachloroethene	µg/l	5	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.90)	ND (0.90)	ND (0.90)
Toluene	µg/l	1000	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.23)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.53)	ND (0.53)	ND (0.53)
1,2,3-Trichlorobenzene	µg/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,2,4-Trichlorobenzene	µg/l	70	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,1,1-Trichloroethane	µg/l	200	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.22)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.54)	ND (0.54)	ND (0.54)
1,1,2-Trichloroethane	µg/l	5	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.28)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.53)	ND (0.53)	ND (0.53)
Trichloroethene	µg/l	5	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.26)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.53)	ND (0.53)	ND (0.53)
Trichlorofluoromethane	µg/l	-	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.84)	ND (0.84) [b]	ND (0.84)	ND (0.58)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.84)	ND (0.84) b	ND (0.84)
1,2,3-Trichloropropane	µg/l	-	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.75)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.70)	ND (0.70)	ND (0.70)
1,2,4-Trimethylbenzene	µg/l	5.6	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.26)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (1.0)	ND (1.0)	ND (1.0)
1,3,5-Trimethylbenzene	µg/l	6	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (1.0)	ND (1.0) [c]	ND (1.0)	ND (0.32)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (1.0)	ND (1.0) c	ND (1.0)
Vinyl chloride	µg/l	2	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62) [a]	ND (0.79)	ND (0.79)	ND (0.79) [a]	ND (0.33)	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62) [a]	ND (0.79)	ND (0.79)	ND (0.79) [a]
m,p-Xylene	µg/l	1000	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.42)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.78)	ND (0.78)	ND (0.78)
o-Xylene	µg/l	1000	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)
Xylene (total)	µg/l	1000	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)
GC Semi-volatiles (SW846 8015C)																			
TPH-DRO (C10-C28)	mg/l	0.047	**0.138**	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.086)	ND (0.053)	ND (0.053)	ND (0.053)	ND (0.064)	ND (0.064)	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.086)	ND (0.053)	ND (0.053)	

Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. SGS Accutest assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data. NS- Not Sampled

Apex Companies, LLC

Project:

Project Number:

Table 3 - Groundwater Results (cont'd.)

North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

AMORT-009

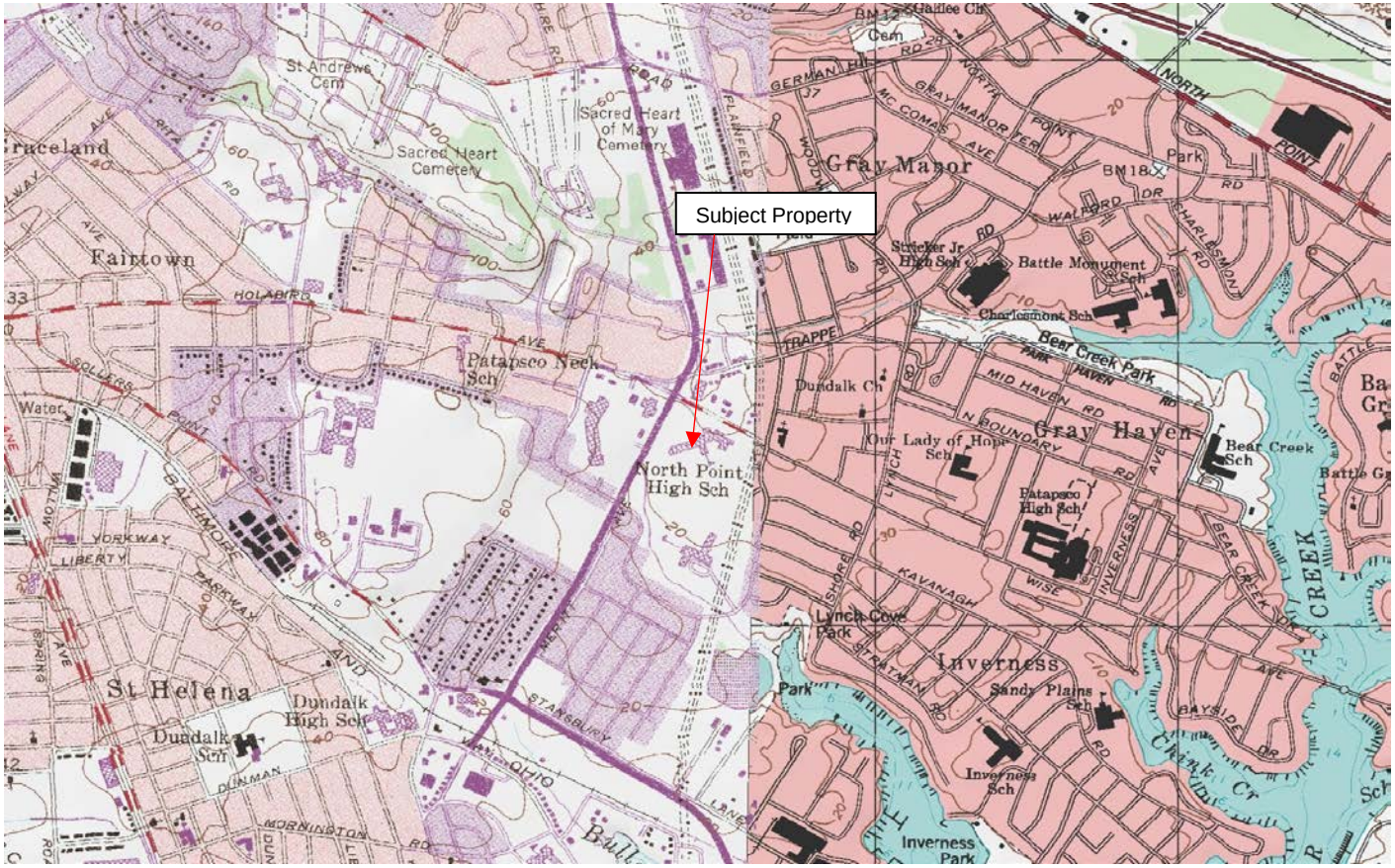
Legend: Hit | Exceed

Client Sample ID:		MD Cleanup Standards - Groundwater Type I and II Aquifers (MDE 6/2008)	MW5			MW5A				MW6								
Lab Sample ID:			JC40368-2	JC45322-3	JC50899-3	JC68086-3	JC73819-3	JC79430-3		JC40368-3	JC45322-3	JC50899-4	JC57653-3	JC63321-3	JC68086-4	JC73819-4	JC79430-4	JC84539-4
Date Sampled:			4/3/2017	6/14/2017	9/13/2017	6/13/2018	9/12/2018	12/5/2018	3/13/2019	4/3/2017	6/13/2017	9/13/2017	12/13/2017	3/29/2018	6/13/2018	9/12/2018	12/5/2018	3/13/2019
Matrix:			Groundwater			Groundwater				Groundwater								
GC/MS Volatiles (SW846 8260C)																		
Acetone	µg/l	1400	ND (5.0)	ND (5.0)	5.0 J	ND (5.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (6.0)	ND (6.0)	ND (6.0)
Benzene	µg/l	5	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.43)	ND (0.43)	ND (0.43)
Bromobenzene	µg/l	-	ND (0.22)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.22)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.55)	ND (0.55)	ND (0.55)
Bromochloromethane	µg/l	-	ND (0.46)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.46)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.38)	ND (0.48)	ND (0.48)	ND (0.48)
Bromodichloromethane	µg/l	80	ND (0.55)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.55)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.58)	ND (0.58)	ND (0.58)
Bromoform	µg/l	80	ND (0.34)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.34)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.63)	ND (0.63)	ND (0.63)
Bromomethane	µg/l	0.75	ND (0.46)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.6)	ND (1.6)	ND (1.6)	ND (0.46)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4) [a]	ND (1.6)	ND (1.6)	ND (1.6)
2-Butanone (MEK)	µg/l	560	ND (1.9)	ND (4.8)	ND (4.8)	ND (4.8)	ND (6.9)	ND (6.9)	ND (6.9)	ND (1.9)	ND (4.8)	ND (4.8)	ND (4.8)	ND (4.8)	ND (4.8)	ND (6.9)	ND (6.9)	ND (6.9)
n-Butylbenzene	µg/l	-	ND (0.28)	ND (0.27)	0.68 J	ND (0.27)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.52)	ND (0.52)	ND (0.52)
sec-Butylbenzene	µg/l	-	ND (1.0)	0.27 J	0.46 J	ND (0.27)	ND (0.62)	ND (0.62)	ND (0.62)	ND (1.0)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.62)	ND (0.62)	ND (0.62)
tert-Butylbenzene	µg/l	-	ND (0.28)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.28)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.69)	ND (0.69)	ND (0.69)
Carbon tetrachloride	µg/l	5	ND (0.54)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.54)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.55)	ND (0.55)	ND (0.55)
Chlorobenzene	µg/l	100	ND (0.17)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.17)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.56)	ND (0.56)	ND (0.56)
Chloroethane	µg/l	3.6	ND (0.44)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.44)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.73)	ND (0.73)	ND (0.73)
Chloroform	µg/l	80	2.9	5	ND (0.29)	8.6	4.6	4.1	4.3	2.3	3.2	4.3	1.5	2.4	4.5	2.6	2.3	1.8
Chloromethane	µg/l	19	ND (0.96)	ND (0.53)	ND (0.53)	ND (0.53) [a]	ND (0.76)	ND (0.76) [a]	ND (0.76)	ND (0.96)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.76)	ND (0.76) [a]	2.6
o-Chlorotoluene	µg/l	-	ND (0.18)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.18)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.63)	ND (0.63)	ND (0.63)
p-Chlorotoluene	µg/l	-	ND (0.29)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.29)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.60)	ND (0.60)	ND (0.60)
Di-Isopropyl ether	µg/l	-	ND (0.41)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.41)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.68)	ND (0.68)	ND (0.68)
1,2-Dibromo-3-chloropropane	µg/l	0.2	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (1.2)	ND (1.2)	ND (1.2)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (0.69)	ND (1.2)	ND (1.2)	ND (1.2)
Dibromochloromethane	µg/l	80	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.23)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.56)	ND (0.56)	ND (0.56)
1,2-Dibromoethane	µg/l	0.05	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.48)	ND (0.48)	ND (0.48)
1,2-Dichlorobenzene	µg/l	600	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.53)
1,3-Dichlorobenzene	µg/l	-	ND (0.19)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.19)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.54)	ND (0.54)	ND (0.54)
1,4-Dichlorobenzene	µg/l	75	ND (0.21)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.21)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)
Dichlorodifluoromethane	µg/l	-	ND (0.70)	ND (1.9)	ND (1.9)	ND (1.9) [a]	ND (1.4)	ND (1.4)	ND (1.4)	ND (0.70)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9) [a]	ND (1.4)	ND (1.4)	ND (1.4)
1,1-Dichloroethane	µg/l	2.8	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.57)	ND (0.57)	ND (0.57)
1,2-Dichloroethane	µg/l	5	ND (0.39)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.39)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.60)	ND (0.60)	ND (0.60)
1,1-Dichloroethene	µg/l	7	ND (0.20)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.20)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.59)	ND (0.59)	ND (0.59)
cis-1,2-Dichloroethene	µg/l	70	ND (0.31)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.31)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)
trans-1,2-Dichloroethene	µg/l	100	ND (0.36)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.36)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.54)	ND (0.54)	ND (0.54)
1,2-Dichloropropane	µg/l	5	ND (0.33)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.33)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.51)	ND (0.51)	ND (0.51)
1,3-Dichloropropane	µg/l	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.43)	ND (0.43)	ND (0.43)
2,2-Dichloropropane	µg/l	-	ND (0.42)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.42)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.52)	ND (0.52)	ND (0.52)
1,1-Dichloropropene	µg/l	-	ND (0.20)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.82)	ND (0.82)	ND (0.82)	ND (0.20)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.82)	ND (0.82)	ND (0.82)
cis-1,3-Dichloropropene	µg/l	-	ND (0.19)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.19)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.47)	ND (0.47)	ND (0.47)
trans-1,3-Dichloropropene	µg/l	-	ND (0.26)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.26)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.43)	ND (0.43)	ND (0.43)
Ethylbenzene	µg/l	700	0.88 J	0.35 J	ND (0.20)	ND (0.22)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.20)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.60)	ND (0.60)	ND (0.60)
Hexachlorobutadiene	µg/l	0.14	ND (0.22)	ND (0.34)	ND (0.22)	ND (0.34)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.22)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.56)	ND (0.56)	ND (0.56)
Isopropylbenzene	µg/l	-	0.40 J	0.27 J	ND (0.16)	ND (0.25)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.16)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.65)	ND (0.65)	ND (0.65)
p-Isopropyltoluene	µg/l	-	1.3 J	0.63 J	0.41 J	ND (0.24)	ND (0.66)	ND (0.66)	ND (0.66)	ND (1.0)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.66)	ND (0.66)	ND (0.66)
Methyl Tert Butyl Ether	µg/l	20	ND (0.34)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.34)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.51)	ND (0.51)	ND (0.51)
4-Methyl-2-pentanone(MIBK)	µg/l	630	ND (1.2)	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.2)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (1.9)	ND (1.9)	ND (1.9)
Methylene bromide	µg/l	-	ND (0.28)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.28)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.48)	ND (0.48)	ND (0.48)
Methylene chloride	µg/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Naphthalene	µg/l	0.17	**3.0 J**	**1.3 J**	ND (1.0)	ND (1.1)	ND (0.98)	ND (0.98)	ND (0.98)	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (0.98)	ND (0.98)	ND (0.98)
n-Propylbenzene	µg/l	-	0.54 J	0.42 J	ND (0.17)	ND (0.24)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.17)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.60)	ND (0.60)	ND (0.60)
Styrene	µg/l	100	ND (0.27)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.27)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.70)	ND (0.70)	ND (0.70)
Tert Butyl Alcohol	µg/l	-	ND (3.0)	ND (7.0)	ND (7.0)	ND (7.0)	ND (5.8)	ND (5.8)	ND (5.8)	ND (3.0)	ND (7.0)	ND (7.0)	ND (7.0)	ND (7.0)	ND (7.0)	ND (5.8)	ND (5.8)	ND (5.8)
tert-Amyl Methyl Ether	µg/l	-	ND (0.23)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.23)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.47)	ND (0.47)	ND (0.47)
tert-Butyl Ethyl Ether	µg/l	-	ND (0.23)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.23)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.56)	ND (0.56)	ND (0.56)
1,1,1,2-Tetrachloroethane	µg/l	-	ND (0.17)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.17)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.60)	ND (0.60)	ND (0.60)
1,1,2,2-Tetrachloroethane	µg/l	0.076	ND (0.39)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.39)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.65)	ND (0.65)	ND (0.65)
Tetrachloroethene	µg/l	5	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.23)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.90)	ND (0.90)	ND (0.90)
Toluene	µg/l	1000	ND (0.23)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.23)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.53)	ND (0.53)	ND (0.53)
1,2,3-Trichlorobenzene	µg/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,2,4-Trichlorobenzene	µg/l	70	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,1,1-Trichloroethane	µg/l	200	ND (0.22)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.22)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.54)	ND (0.54)	ND (0.54)
1,1,2-Trichloroethane	µg/l	5	ND (0.28)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.28)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.53)	ND (0.53)	ND (0.53)
Trichloroethene	µg/l	5	ND (0.26)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.26)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.53)	ND (0.53)	ND (0.53)
Trichlorofluoromethane	µg/l	-	ND (0.58)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.84)	ND (0.84) [b]	ND (0.84)	ND (0.58)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.84)	ND (0.84) [b]	ND (0.84)
1,2,3-Trichloropropane	µg/l	-	ND (0.75)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.75)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.70)	ND (0.70)	ND (0.70)
1,2,4-Trimethylbenzene	µg/l	5.6	15.3	6	0.71 J	ND (0.24)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.26)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (1.0)	ND (1.0)	ND (1.0)
1,3,5-Trimethylbenzene	µg/l	6	13.8	4.2	0.51 J	ND (0.20)	ND (1.0)	ND (1.0) [c]	ND (1.0)	ND (0.32)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (1.0)	ND (1.0) [c]	ND (1.0)
Vinyl chloride	µg/l	2	ND (0.33)	ND (0.62)	ND (0.62)	ND (0.62) [a]	ND (0.79)	ND (0.79)	ND (0.79) [a]	ND (0.33)	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.62)	ND (0.79)	ND (0.79)	ND (0.79) [a]
m,p-Xylene	µg/l	1000	3.8	1	ND (0.43)	ND (0.43)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.42)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.78)	ND (0.78)	ND (0.78)
o-Xylene	µg/l	1000	8.1	1.7	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)
Xylene (total)	µg/l	1000	11.9	2.7	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)
GC Semi-volatiles (SW846 8015C)																		
TPH-DRO (C10-C28)	mg/l	0.047	**1.15**	**0.628**	**3.52**	**2.07**	**1.01**	**0.424**	**0.350**	**0.214**	**0.123**	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.083)	ND (0.053)	ND (0.053)	ND (0.053)

Regulatory limits listed in this document have been obtained from the latest version of the regulations cited and are used for advisory purposes only. SGS Accutest assumes no responsibility for errors in regulatory documents or changes to criteria detailed in later versions of the referenced regulation. It is the responsibility of the user to verify these limits before using or reporting any data. NS- Not Sampled

Figure 1
Site Location

North Point Government Center
7701 Wise Avenue
Dundalk, Maryland



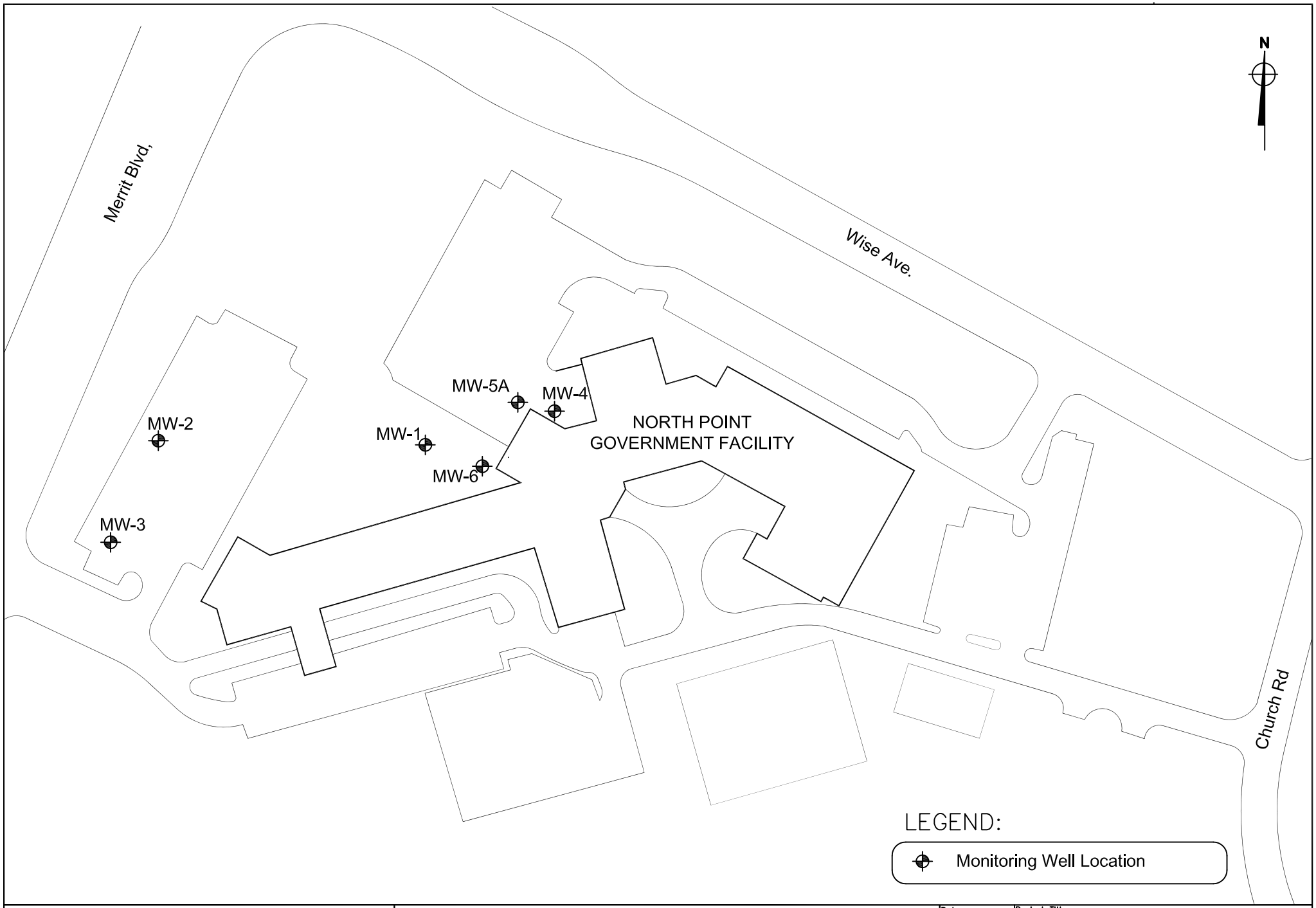
15850 Crabbs Branch Way
Suite 200
Rockville, MD 20855
Telephone: (301) 417-0200
APEX

Legend

Project: Quarterly Monitoring Report

Client: A. Morton Thomas

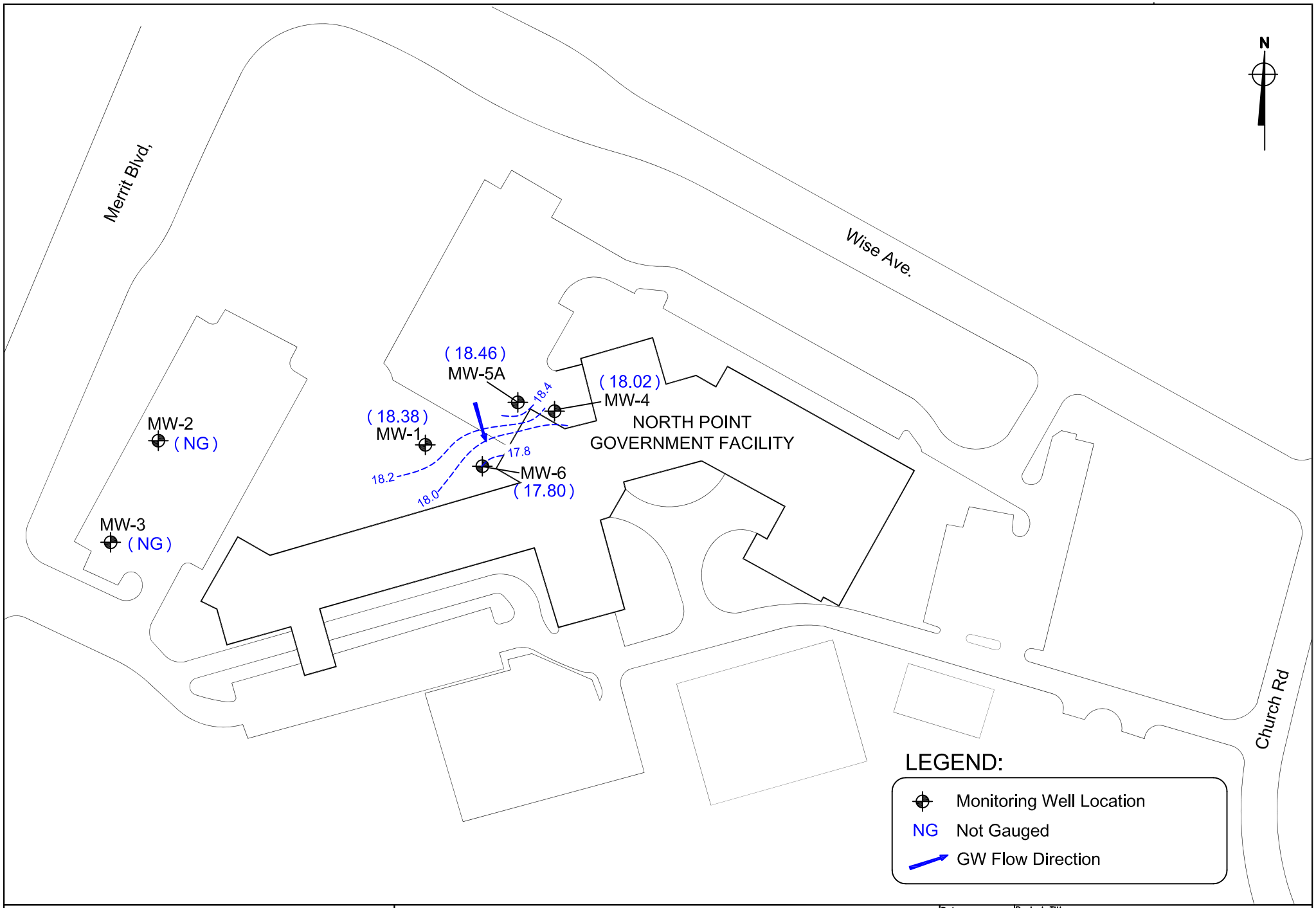
Project No.: AMORT-009



APEX COMPANIES, LLC
15850 CRABBS BRANCH WAY, SUITE 200
ROCKVILLE, MD 20855
PHONE: (301) 417-0200
FAX: (301) 975-0169

FIGURE 2
MONITORING WELL LOCATIONS

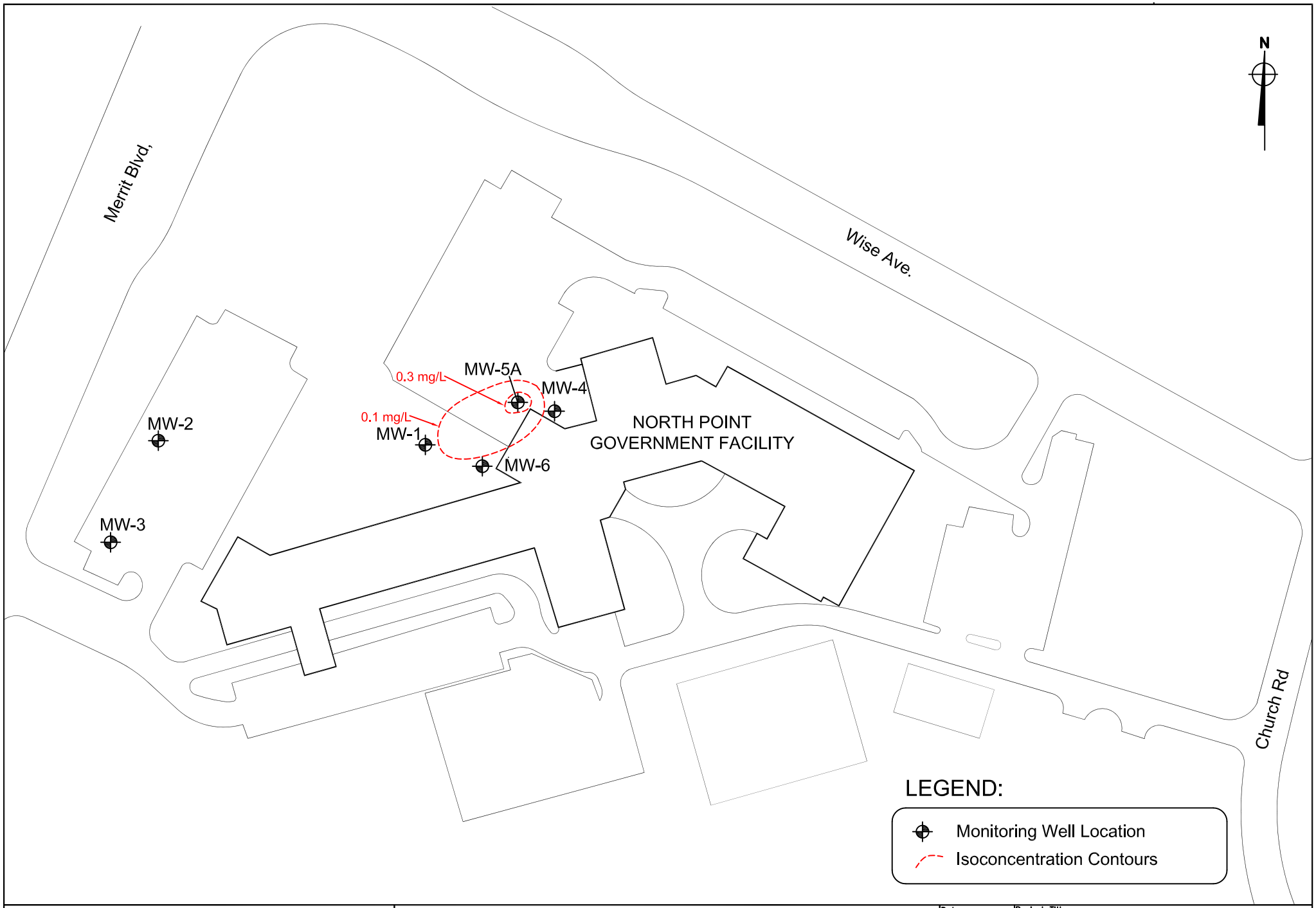
Date: 7–6–18	Project Title: NORTH POINT GOVERNMENT FACILITY 1747 MERRIT BLVD-7701 WISE AVE DUNDALK, MD		
Drawn By: MJO			
Project Number: AMORT–008 –2018	CAD File: AMORT–008	Approx. Scale: 1"=120'	Client: A MORTON THOMAS



APEX COMPANIES, LLC
15850 CRABBS BRANCH WAY, SUITE 200
ROCKVILLE, MD 20855
PHONE: (301) 417-0200
FAX: (301) 975-0169

FIGURE 3
1st QUARTER 2019
GROUNDWATER CONTOUR MAP

Date:	03–26–19
Drawn By:	MJO
Project Title:	NORTH POINT GOVERNMENT FACILITY 1747 MERRIT BLVD-7701 WISE AVE DUNDALK, MD
Project Number:	AMORT–009 –2018
CAD File:	AMORT–009
Approx. Scale:	1"=120'
Client:	A MORTON THOMAS



APEX COMPANIES, LLC
15850 CRABBS BRANCH WAY, SUITE 200
ROCKVILLE, MD 20855
PHONE: (301) 417-0200
FAX: (301) 975-0169

FIGURE 4
1st QUARTER 2019
TPH-DRO ISOCONCENTRATION MAP

Date: 3–26–19	Project Title: NORTH POINT GOVERNMENT FACILITY 1747 MERRIT BLVD-7701 WISE AVE DUNDALK, MD		
Drawn By: MJO			
Project Number: AMORT–009 –2018	CAD File: AMORT–009	Approx. Scale: 1"=120'	Client: A MORTON THOMAS

ATTACHMENT 1

Laboratory Analytical Data

APEX

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Apex Companies, LLC

North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

AMORT-009-2018

SGS Job Number: JC84539

Sampling Date: 03/13/19

Report to:

Apex Companies, LLC
15850 Crabbs Branch Way
Rockville, MD 20855
TPassmore@Apexcos.com

ATTN: Todd Passmore

Total number of pages in report: 42

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Brian McGuire
General Manager

Client Service contact: Cynthia Romero 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

SGS North America Inc. • 2235 Route 130 • Dayton, NJ 08810 • tel: 732-329-0200 • fax: 732-329-3499

SGS is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.
Review standard terms at: http://www.sgs.com/en/terms-and-conditions

Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Summary of Hits **4**
Section 3: Sample Results **5**
3.1: JC84539-1: MW1-031319 6
3.2: JC84539-2: MW4-031319 10
3.3: JC84539-3: MW5A-031319 14
3.4: JC84539-4: MW6-031319 18
Section 4: Misc. Forms **22**
4.1: Chain of Custody 23
Section 5: MS Volatiles - QC Data Summaries **25**
5.1: Method Blank Summary 26
5.2: Blank Spike Summary 29
5.3: Matrix Spike/Matrix Spike Duplicate Summary 32
5.4: Instrument Performance Checks (BFB) 35
5.5: Surrogate Recovery Summaries 37
Section 6: GC/LC Semi-volatiles - QC Data Summaries **38**
6.1: Method Blank Summary 39
6.2: Blank Spike/Blank Spike Duplicate Summary 41
6.3: Surrogate Recovery Summaries 42

SGS North America Inc.

Sample Summary

Apex Companies, LLC

Job No: JC84539

North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Project No: AMORT-009-2018

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC84539-1	03/13/19	09:25	CM	03/15/19	AQ	Ground Water	MW1-031319
JC84539-2	03/13/19	10:25	CM	03/15/19	AQ	Ground Water	MW4-031319
JC84539-3	03/13/19	10:55	CM	03/15/19	AQ	Ground Water	MW5A-031319
JC84539-4	03/13/19	09:55	CM	03/15/19	AQ	Ground Water	MW6-031319

Summary of Hits

Job Number: JC84539
Account: Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD
Collected: 03/13/19

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC84539-1	**MW1-031319**					
Chloroform		3.8	1.0	0.50	ug/l	SW846 8260C
Chloromethane		1.2	1.0	0.76	ug/l	SW846 8260C
JC84539-2	**MW4-031319**					
Chloroform		12.3	1.0	0.50	ug/l	SW846 8260C
JC84539-3	**MW5A-031319**					
Chloroform		4.3	1.0	0.50	ug/l	SW846 8260C
TPH-DRO (C10-C28)		0.350	0.083	0.053	mg/l	SW846 8015D
JC84539-4	**MW6-031319**					
Chloroform		1.8	1.0	0.50	ug/l	SW846 8260C
Chloromethane		2.6	1.0	0.76	ug/l	SW846 8260C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW1-031319		
Lab Sample ID:	JC84539-1	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B89187.D	1	03/19/19 03:28	DG	n/a	n/a	V4B3769
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	3.8	1.0	0.50	ug/l	
74-87-3	Chloromethane	1.2	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.68	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-031319		
Lab Sample ID:	JC84539-1	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.98	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	5.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.47	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.56	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-031319		
Lab Sample ID:	JC84539-1	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	115%		81-124%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	107%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-031319		
Lab Sample ID:	JC84539-1	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8015D SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y96327.D	1	03/19/19 12:52	TL	03/18/19 17:00	OP19195	G2Y3651
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.053	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		22-140%
438-22-2	5a-Androstane	71%		10-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-031319		
Lab Sample ID:	JC84539-2	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B89188.D	1	03/19/19 03:56	DG	n/a	n/a	V4B3769
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	12.3	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.68	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-031319		
Lab Sample ID:	JC84539-2	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.98	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	5.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.47	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.56	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-031319		
Lab Sample ID:	JC84539-2	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		81-124%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	107%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW4-031319		
Lab Sample ID:	JC84539-2	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8015D SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y96328.D	1	03/19/19 13:26	TL	03/18/19 17:00	OP19195	G2Y3651
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.053	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		22-140%
438-22-2	5a-Androstane	65%		10-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5A-031319		
Lab Sample ID:	JC84539-3	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B89189.D	1	03/19/19 04:24	DG	n/a	n/a	V4B3769
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	4.3	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.68	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5A-031319		
Lab Sample ID:	JC84539-3	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.98	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	5.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.47	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.56	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5A-031319		
Lab Sample ID:	JC84539-3	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		81-124%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	106%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW5A-031319		
Lab Sample ID:	JC84539-3	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8015D SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Y96329.D	1	03/19/19 14:00	TL	03/18/19 17:00	OP19195	G2Y3651
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.350	0.083	0.053	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		22-140%
438-22-2	5a-Androstane	67%		10-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6-031319		
Lab Sample ID:	JC84539-4	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4B89190.D	1	03/19/19 04:52	DG	n/a	n/a	V4B3769
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	1.8	1.0	0.50	ug/l	
74-87-3	Chloromethane	2.6	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.68	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6-031319		
Lab Sample ID:	JC84539-4	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.98	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	5.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.47	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.56	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6-031319		
Lab Sample ID:	JC84539-4	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

VOA Full List + Oxygenates

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	115%		81-124%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	108%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6-031319		
Lab Sample ID:	JC84539-4	**Date Sampled:**	03/13/19
Matrix:	AQ - Ground Water	**Date Received:**	03/15/19
Method:	SW846 8015D SW846 3510C	**Percent Solids:**	n/a
Project:	North Point Government Facility, 7701 Wise Avenue, Dundalk, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Z74331.D	1	03/19/19 15:08	TL	03/18/19 17:00	OP19195	G2Z2780
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.053	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		22-140%
438-22-2	5a-Androstane	60%		10-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS

GW

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

Page 1 of 1

FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: JC84539

Client / Reporting Information

Company Name: Apex Companies
Street Address: 15350 Crabbs Branch Way
City: Rockville State: MD Zip: 20855
Project Contact: Todd Prissmore E-mail: FILE
Phone #: 301 417 0200
Sampler(s) Name(s): C. Mentzer Phone #:

Project Information

Project Name: North Point Gov't Facility
Street: 7701 Wise Ave
City: Dundalk State: MD
Project #: AMDRT-009-2018
Client Purchase Order #: —
Project Manager: Todd Prissmore
Billing Information (if different from Report to)
Company Name: SAME
Street Address:
City: State: Zip:
Attention:

Requested Analysis: TPH DRO 8015; Full organics + naphthalene 8260; VOCs + naphthalene 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	TPH DRO 8015	VOCs + naphthalene 8260	LAB USE ONLY
1	MW1-031319	—	03/13/19	0925	CM	G	GW	5	5								X	X	
2	MW4-031319	—	↓	1025	↓	↓	↓	↓	↓								↓	↓	E40
3	MWSA-031319	—	↓	1055	↓	↓	↓	↓	↓								↓	↓	V611
4	MW6-031319	—	↓	0955	↓	↓	↓	↓	↓								↓	↓	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [x] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other _____

All data available via Lablink. * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria_____
- [ ] CT RCP Criteria_____
- [ ] State Forms
- [ ] EDD Format _____
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASESSMENT 2A 1/28

LABEL VERIFICATION_____

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	03/13/19 0700	1	2	3-15-19 1820	2
Relinquished by: 3	Date / Time:	Received By: 3 3-15-19 1245	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] Absent [ ] Therm. ID: Cooler Temp. 2.8 C-1P

EHSA-QAC-0023-02-FORM-Dayton - Standard COC.xlsx

JC84539: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JC84539 **Client:** APEX COMPANIES, LLC **Project:** NORTH POINT GOVERNMENT FACILITY, 7701

Date / Time Received: 3/15/2019 6:20:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.8);

Cooler Temps (Corrected) °C: Cooler 1: (1.8);

Cooler Security	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. COC Present:	☑		☐
4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 206717 pH 12+: 208717 Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

JC84539: Chain of Custody
Page 2 of 2

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4B3769-MB	4B89174.D	1	03/18/19	DG	n/a	n/a	V4B3769

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC84539-1, JC84539-2, JC84539-3, JC84539-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.68	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	

Method Blank Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4B3769-MB	4B89174.D	1	03/18/19	DG	n/a	n/a	V4B3769

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC84539-1, JC84539-2, JC84539-3, JC84539-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	0.98	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	5.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.47	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	0.56	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

Method Blank Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4B3769-MB	4B89174.D	1	03/18/19	DG	n/a	n/a	V4B3769

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC84539-1, JC84539-2, JC84539-3, JC84539-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	113%	80-120%
17060-07-0	1,2-Dichloroethane-D4	112%	81-124%
2037-26-5	Toluene-D8	102%	80-120%
460-00-4	4-Bromofluorobenzene	109%	80-120%

Blank Spike Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4B3769-BS	4B89172.D	1	03/18/19	DG	n/a	n/a	V4B3769

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC84539-1, JC84539-2, JC84539-3, JC84539-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	173	87	42-150
71-43-2	Benzene	50	50.7	101	80-120
108-86-1	Bromobenzene	50	58.0	116	82-118
74-97-5	Bromochloromethane	50	52.1	104	84-121
75-27-4	Bromodichloromethane	50	54.3	109	83-120
75-25-2	Bromoform	50	54.5	109	76-129
74-83-9	Bromomethane	50	43.8	88	57-138
78-93-3	2-Butanone (MEK)	200	192	96	64-137
104-51-8	n-Butylbenzene	50	50.7	101	81-123
135-98-8	sec-Butylbenzene	50	51.9	104	84-121
98-06-6	tert-Butylbenzene	50	52.6	105	83-122
56-23-5	Carbon tetrachloride	50	51.5	103	75-135
108-90-7	Chlorobenzene	50	51.4	103	84-117
75-00-3	Chloroethane	50	44.6	89	63-132
67-66-3	Chloroform	50	52.6	105	80-119
74-87-3	Chloromethane	50	42.0	84	46-136
95-49-8	o-Chlorotoluene	50	57.0	114	84-118
106-43-4	p-Chlorotoluene	50	57.3	115	83-116
108-20-3	Di-Isopropyl ether	50	50.6	101	73-128
96-12-8	1,2-Dibromo-3-chloropropane	50	46.3	93	72-127
124-48-1	Dibromochloromethane	50	54.0	108	80-123
106-93-4	1,2-Dibromoethane	50	56.6	113	84-117
95-50-1	1,2-Dichlorobenzene	50	53.3	107	84-119
541-73-1	1,3-Dichlorobenzene	50	55.1	110	81-117
106-46-7	1,4-Dichlorobenzene	50	54.7	109	82-117
75-71-8	Dichlorodifluoromethane	50	47.6	95	36-149
75-34-3	1,1-Dichloroethane	50	51.6	103	79-120
107-06-2	1,2-Dichloroethane	50	51.0	102	78-126
75-35-4	1,1-Dichloroethene	50	47.8	96	69-126
156-59-2	cis-1,2-Dichloroethene	50	53.1	106	80-120
156-60-5	trans-1,2-Dichloroethene	50	51.7	103	76-120
78-87-5	1,2-Dichloropropane	50	51.2	102	82-121
142-28-9	1,3-Dichloropropane	50	50.1	100	83-115
594-20-7	2,2-Dichloropropane	50	48.8	98	65-133
563-58-6	1,1-Dichloropropene	50	49.1	98	80-121
10061-01-5	cis-1,3-Dichloropropene	50	53.5	107	83-120

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4B3769-BS	4B89172.D	1	03/18/19	DG	n/a	n/a	V4B3769

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC84539-1, JC84539-2, JC84539-3, JC84539-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.6	107	82-121
100-41-4	Ethylbenzene	50	52.4	105	80-120
87-68-3	Hexachlorobutadiene	50	44.8	90	75-129
98-82-8	Isopropylbenzene	50	52.6	105	83-120
99-87-6	p-Isopropyltoluene	50	52.4	105	83-122
1634-04-4	Methyl Tert Butyl Ether	50	48.2	96	80-119
108-10-1	4-Methyl-2-pentanone(MIBK)	200	198	99	71-131
74-95-3	Methylene bromide	50	51.9	104	85-120
75-09-2	Methylene chloride	50	49.8	100	77-120
91-20-3	Naphthalene	50	45.9	92	73-131
103-65-1	n-Propylbenzene	50	56.1	112	82-119
100-42-5	Styrene	50	55.9	112	82-122
75-65-0	Tert Butyl Alcohol	250	225	90	78-126
994-05-8	tert-Amyl Methyl Ether	50	53.4	107	81-124
637-92-3	tert-Butyl Ethyl Ether	50	52.3	105	79-128
630-20-6	1,1,1,2-Tetrachloroethane	50	53.6	107	82-121
79-34-5	1,1,2,2-Tetrachloroethane	50	51.3	103	76-119
127-18-4	Tetrachloroethene	50	51.6	103	70-131
108-88-3	Toluene	50	50.8	102	80-120
87-61-6	1,2,3-Trichlorobenzene	50	48.4	97	76-134
120-82-1	1,2,4-Trichlorobenzene	50	49.3	99	79-132
71-55-6	1,1,1-Trichloroethane	50	50.3	101	81-128
79-00-5	1,1,2-Trichloroethane	50	51.1	102	83-118
79-01-6	Trichloroethene	50	52.4	105	80-120
75-69-4	Trichlorofluoromethane	50	49.0	98	64-136
96-18-4	1,2,3-Trichloropropane	50	52.3	105	79-120
95-63-6	1,2,4-Trimethylbenzene	50	55.6	111	84-120
108-67-8	1,3,5-Trimethylbenzene	50	54.7	109	83-119
75-01-4	Vinyl chloride	50	41.8	84	51-135
	m,p-Xylene	100	105	105	80-120
95-47-6	o-Xylene	50	54.5	109	80-120
1330-20-7	Xylene (total)	150	160	107	80-120

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4B3769-BS	4B89172.D	1	03/18/19	DG	n/a	n/a	V4B3769

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC84539-1, JC84539-2, JC84539-3, JC84539-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	80-120%
17060-07-0	1,2-Dichloroethane-D4	106%	81-124%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	109%	80-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC84516-1MS	4B89178.D	10	03/18/19	DG	n/a	n/a	V4B3769
JC84516-1MSD	4B89179.D	10	03/18/19	DG	n/a	n/a	V4B3769
JC84516-1 [a]	4B89177.D	10	03/18/19	DG	n/a	n/a	V4B3769

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC84539-1, JC84539-2, JC84539-3, JC84539-4

CAS No.	Compound	JC84516-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		2000	1830	92	2000	1740	87	5	34-149/17
71-43-2	Benzene	ND		500	518	104	500	481	96	7	54-136/10
108-86-1	Bromobenzene	ND		500	576	115	500	557	111	3	78-122/11
74-97-5	Bromochloromethane	ND		500	528	106	500	493	99	7	79-124/11
75-27-4	Bromodichloromethane	ND		500	545	109	500	508	102	7	79-124/11
75-25-2	Bromoform	ND		500	549	110	500	518	104	6	71-130/11
74-83-9	Bromomethane	ND		500	457	91	500	425	85	7	53-142/14
78-93-3	2-Butanone (MEK)	ND		2000	2000	100	2000	1900	95	5	54-142/15
104-51-8	n-Butylbenzene	ND		500	499	100	500	479	96	4	73-133/12
135-98-8	sec-Butylbenzene	ND		500	516	103	500	494	99	4	76-132/12
98-06-6	tert-Butylbenzene	ND		500	530	106	500	508	102	4	76-131/12
56-23-5	Carbon tetrachloride	ND		500	545	109	500	506	101	7	70-143/12
108-90-7	Chlorobenzene	ND		500	518	104	500	493	99	5	78-123/10
75-00-3	Chloroethane	ND		500	463	93	500	430	86	7	57-141/14
67-66-3	Chloroform	13.2		500	543	106	500	502	98	8	76-123/11
74-87-3	Chloromethane	ND		500	449	90	500	421	84	6	43-141/16
95-49-8	o-Chlorotoluene	ND		500	561	112	500	541	108	4	78-124/11
106-43-4	p-Chlorotoluene	ND		500	562	112	500	536	107	5	77-122/11
108-20-3	Di-Isopropyl ether	ND		500	513	103	500	481	96	6	68-130/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	487	97	500	475	95	2	66-130/13
124-48-1	Dibromochloromethane	ND		500	538	108	500	512	102	5	76-125/11
106-93-4	1,2-Dibromoethane	ND		500	576	115	500	552	110	4	78-119/11
95-50-1	1,2-Dichlorobenzene	ND		500	532	106	500	506	101	5	77-123/11
541-73-1	1,3-Dichlorobenzene	ND		500	541	108	500	514	103	5	76-122/11
106-46-7	1,4-Dichlorobenzene	ND		500	539	108	500	515	103	5	76-122/11
75-71-8	Dichlorodifluoromethane	ND		500	596	119	500	561	112	6	31-159/16
75-34-3	1,1-Dichloroethane	20.2		500	540	104	500	502	96	7	73-126/11
107-06-2	1,2-Dichloroethane	ND		500	525	105	500	485	97	8	72-131/11
75-35-4	1,1-Dichloroethene	194		500	650	91	500	614	84	6	63-136/14
156-59-2	cis-1,2-Dichloroethene	ND		500	544	109	500	507	101	7	60-136/11
156-60-5	trans-1,2-Dichloroethene	ND		500	523	105	500	492	98	6	70-126/11
78-87-5	1,2-Dichloropropane	ND		500	518	104	500	480	96	8	78-124/10
142-28-9	1,3-Dichloropropane	ND		500	512	102	500	487	97	5	78-118/11
594-20-7	2,2-Dichloropropane	ND		500	509	102	500	473	95	7	59-141/14
563-58-6	1,1-Dichloropropene	ND		500	506	101	500	474	95	7	75-130/11
10061-01-5	cis-1,3-Dichloropropene	ND		500	536	107	500	502	100	7	79-123/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC84516-1MS	4B89178.D	10	03/18/19	DG	n/a	n/a	V4B3769
JC84516-1MSD	4B89179.D	10	03/18/19	DG	n/a	n/a	V4B3769
JC84516-1 [a]	4B89177.D	10	03/18/19	DG	n/a	n/a	V4B3769

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC84539-1, JC84539-2, JC84539-3, JC84539-4

CAS No.	Compound	JC84516-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		500	551	110	500	519	104	6	77-123/11
100-41-4	Ethylbenzene	ND		500	537	107	500	506	101	6	51-140/20
87-68-3	Hexachlorobutadiene	ND		500	439	88	500	426	85	3	64-141/14
98-82-8	Isopropylbenzene	ND		500	532	106	500	504	101	5	75-129/11
99-87-6	p-Isopropyltoluene	ND		500	513	103	500	492	98	4	76-131/12
1634-04-4	Methyl Tert Butyl Ether	ND		500	487	97	500	471	94	3	72-123/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		2000	2060	103	2000	1940	97	6	66-136/13
74-95-3	Methylene bromide	ND		500	538	108	500	498	100	8	81-121/11
75-09-2	Methylene chloride	ND		500	502	100	500	474	95	6	73-125/13
91-20-3	Naphthalene	ND		500	469	94	500	469	94	0	62-141/13
103-65-1	n-Propylbenzene	ND		500	557	111	500	533	107	4	68-133/11
100-42-5	Styrene	ND		500	561	112	500	527	105	6	75-129/11
75-65-0	Tert Butyl Alcohol	ND		2500	2330	93	2500	2370	95	2	73-134/13
994-05-8	tert-Amyl Methyl Ether	ND		500	549	110	500	518	104	6	75-127/11
637-92-3	tert-Butyl Ethyl Ether	ND		500	527	105	500	503	101	5	74-130/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		500	547	109	500	525	105	4	77-124/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	523	105	500	496	99	5	71-122/11
127-18-4	Tetrachloroethene	ND		500	534	107	500	510	102	5	61-139/11
108-88-3	Toluene	ND		500	512	102	500	492	98	4	60-135/10
87-61-6	1,2,3-Trichlorobenzene	ND		500	478	96	500	477	95	0	70-138/13
120-82-1	1,2,4-Trichlorobenzene	ND		500	484	97	500	475	95	2	72-137/13
71-55-6	1,1,1-Trichloroethane	615		500	1010	79	500	955	68* [b]	6	74-138/12
79-00-5	1,1,2-Trichloroethane	ND		500	522	104	500	495	99	5	78-121/11
79-01-6	Trichloroethene	1660		500	1920	52* [c]	500	1840	36* [c]	4	62-141/10
75-69-4	Trichlorofluoromethane	ND		500	538	108	500	490	98	9	57-149/14
96-18-4	1,2,3-Trichloropropane	ND		500	544	109	500	516	103	5	74-122/11
95-63-6	1,2,4-Trimethylbenzene	ND		500	545	109	500	518	104	5	54-143/10
108-67-8	1,3,5-Trimethylbenzene	ND		500	541	108	500	519	104	4	67-133/11
75-01-4	Vinyl chloride	ND		500	450	90	500	421	84	7	43-146/15
	m,p-Xylene	ND		1000	1070	107	1000	1010	101	6	50-144/20
95-47-6	o-Xylene	ND		500	553	111	500	517	103	7	63-134/10
1330-20-7	Xylene (total)	ND		1500	1620	108	1500	1530	102	6	56-139/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC84516-1MS	4B89178.D	10	03/18/19	DG	n/a	n/a	V4B3769
JC84516-1MSD	4B89179.D	10	03/18/19	DG	n/a	n/a	V4B3769
JC84516-1 [a]	4B89177.D	10	03/18/19	DG	n/a	n/a	V4B3769

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC84539-1, JC84539-2, JC84539-3, JC84539-4

CAS No.	Surrogate Recoveries	MS	MSD	JC84516-1	Limits
1868-53-7	Dibromofluoromethane	108%	106%	114%	80-120%
17060-07-0	1,2-Dichloroethane-D4	108%	105%	114%	81-124%
2037-26-5	Toluene-D8	102%	103%	102%	80-120%
460-00-4	4-Bromofluorobenzene	107%	109%	108%	80-120%

(a) Diluted due to high concentration of target compound.
(b) Outside control limits due to matrix interference.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: V4B3694-BFB
Lab File ID: 4B87619.D
Instrument ID: GCMS4B
Injection Date: 01/10/19
Injection Time: 17:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	41493	19.0		Pass
75	30.0 - 60.0% of mass 95	104826	48.0		Pass
95	Base peak, 100% relative abundance	218538	100.0		Pass
96	5.0 - 9.0% of mass 95	14652	6.70		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	213482	97.7		Pass
175	5.0 - 9.0% of mass 174	16627	7.61	(7.79) [a]	Pass
176	95.0 - 101.0% of mass 174	207786	95.1	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	14164	6.48	(6.82) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4B3694-IC3694	4B87621.D	01/10/19	18:54	01:14	Initial cal 0.5
V4B3694-IC3694	4B87622.D	01/10/19	19:23	01:43	Initial cal 1
V4B3694-IC3694	4B87623.D	01/10/19	19:50	02:10	Initial cal 2
V4B3694-IC3694	4B87624.D	01/10/19	20:19	02:39	Initial cal 4
V4B3694-IC3694	4B87625.D	01/10/19	20:47	03:07	Initial cal 8
V4B3694-IC3694	4B87626.D	01/10/19	21:15	03:35	Initial cal 20
V4B3694-ICC3694	4B87627.D	01/10/19	21:43	04:03	Initial cal 50
V4B3694-IC3694	4B87628.D	01/10/19	22:11	04:31	Initial cal 100
V4B3694-IC3694	4B87629.D	01/10/19	22:40	05:00	Initial cal 200
V4B3694-ICV3694	4B87632.D	01/11/19	00:05	06:25	Initial cal verification 50
V4B3694-ICV3694	4B87633.D	01/11/19	00:33	06:53	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample: V4B3769-BFB
Lab File ID: 4B89170.D
Instrument ID: GCMS4B
Injection Date: 03/18/19
Injection Time: 18:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16076	19.2		Pass
75	30.0 - 60.0% of mass 95	40221	48.2		Pass
95	Base peak, 100% relative abundance	83512	100.0		Pass
96	5.0 - 9.0% of mass 95	5779	6.92		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	82715	99.0		Pass
175	5.0 - 9.0% of mass 174	6797	8.14	(8.22) [a]	Pass
176	95.0 - 101.0% of mass 174	80816	96.8	(97.7) [a]	Pass
177	5.0 - 9.0% of mass 176	5252	6.29	(6.50) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4B3769-CC3694	4B89170.D	03/18/19	18:37	00:00	Continuing cal 50
V4B3769-BS	4B89172.D	03/18/19	19:46	01:09	Blank Spike
V4B3769-MB	4B89174.D	03/18/19	20:41	02:04	Method Blank
ZZZZZZ	4B89175.D	03/18/19	21:44	03:07	(unrelated sample)
ZZZZZZ	4B89176.D	03/18/19	22:19	03:42	(unrelated sample)
JC84516-1	4B89177.D	03/18/19	22:47	04:10	(used for QC only; not part of job JC84539)
JC84516-1MS	4B89178.D	03/18/19	23:15	04:38	Matrix Spike
JC84516-1MSD	4B89179.D	03/18/19	23:43	05:06	Matrix Spike Duplicate
ZZZZZZ	4B89182.D	03/19/19	01:08	06:31	(unrelated sample)
ZZZZZZ	4B89184.D	03/19/19	02:04	07:27	(unrelated sample)
ZZZZZZ	4B89185.D	03/19/19	02:32	07:55	(unrelated sample)
ZZZZZZ	4B89186.D	03/19/19	03:00	08:23	(unrelated sample)
JC84539-1	4B89187.D	03/19/19	03:28	08:51	MW1-031319
JC84539-2	4B89188.D	03/19/19	03:56	09:19	MW4-031319
JC84539-3	4B89189.D	03/19/19	04:24	09:47	MW5A-031319
JC84539-4	4B89190.D	03/19/19	04:52	10:15	MW6-031319

Surrogate Recovery Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC84539-1	4B89187.D	115	115	102	107
JC84539-2	4B89188.D	115	114	103	107
JC84539-3	4B89189.D	116	116	102	106
JC84539-4	4B89190.D	114	115	102	108
JC84516-1MS	4B89178.D	108	108	102	107
JC84516-1MSD	4B89179.D	106	105	103	109
V4B3769-BS	4B89172.D	106	106	100	109
V4B3769-MB	4B89174.D	113	112	102	109

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	81-124%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19195-MB1	2Z74324.D	1	03/19/19	TL	03/18/19	OP19195	G2Z2780

The QC reported here applies to the following samples: **Method:** SW846 8015D

JC84539-1, JC84539-2, JC84539-3, JC84539-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.053	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	78%	22-140%
438-22-2	5a-Androstane	71%	10-135%

Method Blank Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19195-MB1	2Y96326.D	1	03/19/19	TL	03/18/19	OP19195	G2Y3651

The QC reported here applies to the following samples: **Method:** SW846 8015D

JC84539-1, JC84539-2, JC84539-3, JC84539-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.053	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	75%	22-140%
438-22-2	5a-Androstane	73%	10-135%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19195-BS1	2Y96324.D	1	03/19/19	TL	03/18/19	OP19195	G2Y3651
OP19195-BSD	2Y96325.D	1	03/19/19	TL	03/18/19	OP19195	G2Y3651

The QC reported here applies to the following samples: **Method:** SW846 8015D

JC84539-1, JC84539-2, JC84539-3, JC84539-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	3.33	2.16	65	2.45	74	13* [a]	29-114/12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	77%	89%	22-140%
438-22-2	5a-Androstane	73%	85%	10-135%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: JC84539
Account: ACMDR Apex Companies, LLC
Project: North Point Government Facility, 7701 Wise Avenue, Dundalk, MD

Method: SW846 8015D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]
JC84539-1	2Y96327.D	81	71
JC84539-2	2Y96328.D	78	65
JC84539-3	2Y96329.D	82	67
JC84539-4	2Z74331.D	75	60
OP19195-BS1	2Y96324.D	77	73
OP19195-BSD	2Y96325.D	89	85
OP19195-MB1	2Z74324.D	78	71
OP19195-MB1	2Y96326.D	75	73

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	22-140%
S2 = 5a-Androstane	10-135%

(a) Recovery from GC signal #1