



PETROLEUM MANAGEMENT, INC.

Environmental Services Division

2138 Priest Bridge Ct., Suite 10 ♦ Crofton, Maryland 21114

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September 14, 2020

Maryland Department of the Environment
Oil Control Program
Attn: Susan Bull
1800 Washington Blvd., Suite 620
Baltimore, MD 21230-1719

**RE: Wiley H. Bates Middle School
701 Chase St., Annapolis
MDE Facility ID# 3200
MDE Case# 18-0559-AA**

Quarterly Sampling Report 3rd Quarter 2020

Dear Ms. Bull,

In accordance with the MDE directives, a quarterly monitoring well sampling event was completed at the site on August 19, 2020. Each monitoring well available at the site was gauged with an electronic oil/water interface probe to detect any accumulation of Liquid Phase Hydrocarbons (LPH) or Free Product. At the time of this monitoring event, LPH was still persistent and measurable in MW-1 and MW-2 with active skimmer pumps deployed as part of the recovery system. As such, these wells were excluded from purging and sampling.

After gauging and in the absence of any LPH, each well was purged with a submersible low-flow pump on August 18, 2020 by removing a total of three (3) well volumes of water, per gauging calculations. Purged groundwater was transferred to containment drums for removal and disposal (PMI manifest #25946). After allowing groundwater in each well to recover to pre-purge levels, sampling from each well was completed on August 19, 2020.

Groundwater samples were collected using pre-packaged, single-use disposable bailers and placed in laboratory provided glassware for analysis of TPH-DRO, TPH-GRO (EPA method 8015c) and Total VOC (EPA method 8260b) as directed. Samples were placed in a cooler with ice for transport to the lab facility under appropriate chain of custody. Historic and current groundwater analysis results are summarized as follows with complete laboratory reports attached.

MW-1: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-1	8/7/19	*LPH present, no sampling this quarter. Well target of EFR activity.							
	11/7/19	*LPH present, no sampling this quarter. Well target of EFR activity.							
	2/19/20	*LPH present, no sampling this quarter. Well target of EFR activity.							
	5/20/20	*LPH present, no sampling this quarter. Well target of active recovery system.							
	8/19/20	*LPH present, no sampling this quarter. Well target of active recovery system.							
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

MW-2: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-2	8/7/19	*LPH present, no sampling this quarter. Well target of EFR activity.							
	11/7/19	*LPH present, no sampling this quarter. Well target of EFR activity.							
	2/19/20	*LPH present, no sampling this quarter. Well target of EFR activity.							
	5/20/20	*LPH present, no sampling this quarter. Well target of active recovery system.							
	8/19/20	*LPH present, no sampling this quarter. Well target of active recovery system.							
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

MW-3: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-3	8/7/19	*LPH present, no sampling this quarter. Well target of EFR activity.							
	11/7/19	*LPH present, no sampling this quarter. Well target of EFR activity.							
	2/19/20	102	1870	ND <2.0	ND <2.0	ND <2.0	4.7	ND <2.0	ND <2.0
	5/20/20	ND <100	8770	ND <2.0	ND <2.0	ND <2.0	4.1	ND <2.0	4.3
	8/19/20	ND <100	5530	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MW-4: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-4	8/7/19	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/19/20	ND <100	ND <260	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MW-5: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-5	8/7/19	ND <100	ND <250	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MW-6: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-6	8/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/19/20	ND <100	ND <250	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MW-7: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-7	8/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/19/20	ND <100	ND <260	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MW-8: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-8	8/7/19	ND <100	ND <250	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/19/20	190	9830	ND <2.0	ND <2.0	2.7	7.6	ND <2.0	7.5
	5/20/20	ND <100	1180	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	370	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MW-10: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-10	8/7/19	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/19/20	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <210	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <210	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MDE-1: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MDE-1	8/7/19	ND <100	ND <260	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MDE-2: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MDE-2	8/7/19	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <200	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MDE-3: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MDE-3	8/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <210	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

TF-1: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
TF-1	8/8/19	ND <100	860	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	3.3
	11/7/19	*Well purged dry with no recharge; no water present to sample							
	2/19/20	*Well purged dry with no recharge; no water present to sample							
	5/20/20	*Well purged dry with no recharge; no water present to sample							
	8/19/20	*Well purged dry with no recharge; no water present to sample							
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

TF-2: Analytical Results Summary

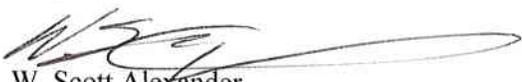
Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
TF-2 (MW-9)	8/8/19	ND <100	940	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	*Well purged dry with no recharge; no water present to sample							
	2/19/20	ND <100	ND <270	ND <2.0	ND <2.0	ND <2.0	1.6	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

Upon review and comparison of the gauging and sampling results from the previous quarterly sampling events and the current 2nd quarter of 2020, LPH at MW-3 is no longer present and has not been observed since November 13, 2019. LPH is still present and observed at MW-1 and MW-2. These two wells have recently been connected to an active skimmer recovery system and are monitored, along with the system at lease monthly. Now that LPH is no longer present at MW-3, sampling this quarter now indicates a continued decline in dissolved-phase contamination from the previous quarter. Dissolved-phase contamination at MW-8 has also shows a continued decline since last quarter. A complete laboratory results report for the 3rd quarter 2020 sampling event along with well gauging forms and site plan of monitoring well locations is attached for review. As directed by MDE, the next quarterly sampling event will be scheduled on or about November 16, 2020.

Please contact our office with any questions or concerns.

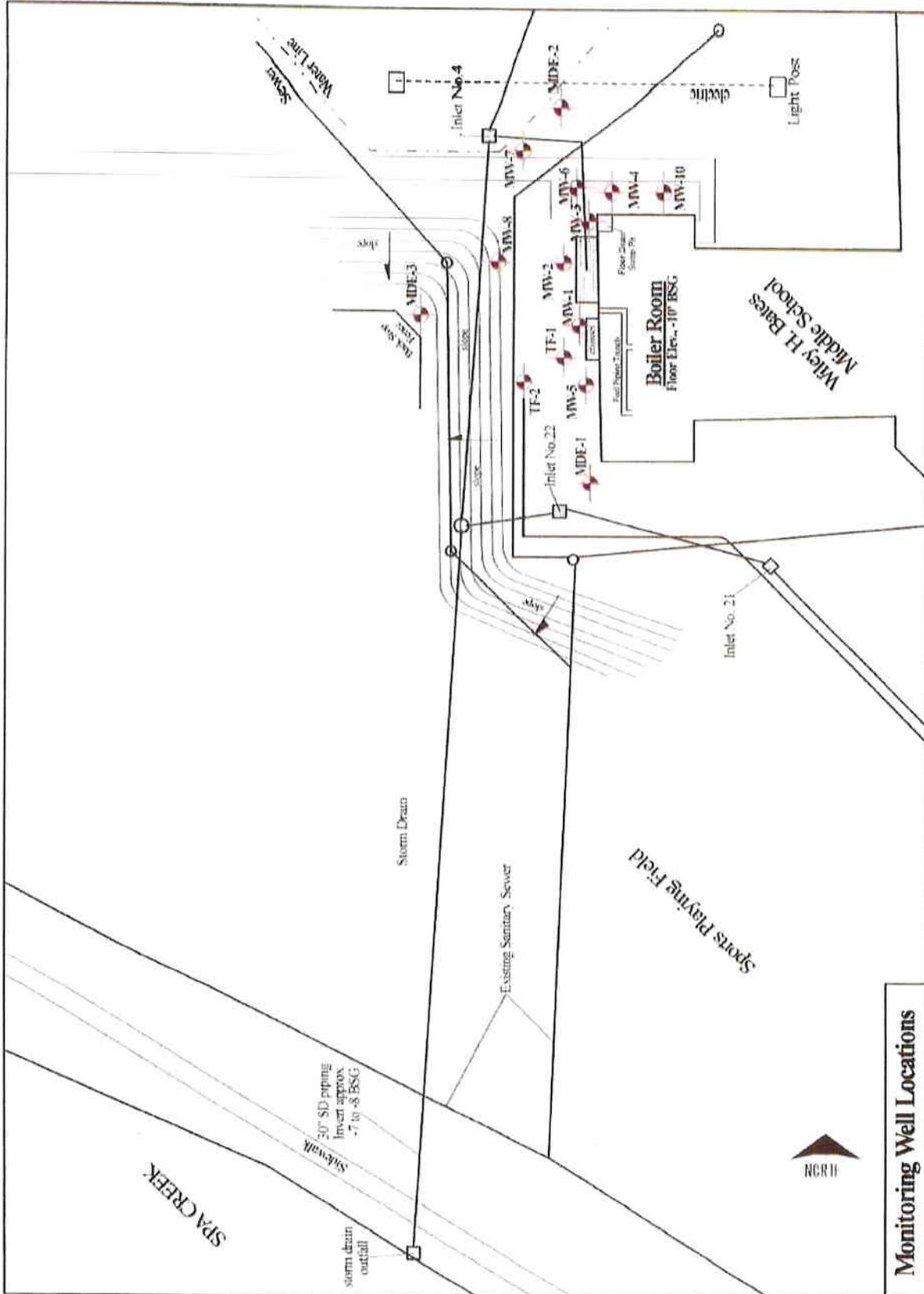
Respectfully submitted,



W. Scott Alexander
Environmental Projects Manager

Enc.

cc: *Mr. Christopher Williams*
Environmental Health & Safety Manager
Anne Arundel County Public Schools
9034 Fort Smallwood Rd.
Pasadena, MD 21122



Monitoring Well Locations	Job Name: Wiley H. Bates Middle School - Corrective Action Plan	Date: Aug. 2019
	Location: 701 Chase Street, Annapolis, MD 21401	
	Drawn By: WSA	Scale: 1" = 50'

Petroleum Management, Inc.
 5218 Curtis Avenue
 Curtis Bay, MD 21226
 410-354-0200

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-1
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: _____ Time: _____ Well Dia: 4.0"

Depth to Liquid: _____ Well Depth: 29.92'
Depth to Water: _____ Liquid Depth: _____
Free Product: _____ Gallons/Foot: _____
Liquid Volume: _____ (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: _____ Start Time: _____ End Time: _____

Liquid Volume: _____ Purge Rate: _____
Purge Volume (3x liquid volume): _____ Purge Time: _____
Purge Method: Submersible Pump
Comments: _____

N/A

SAMPLING: Date: _____ Time: _____

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: No purge or sample due to LPH present
& recovery system in place & operable.

GAUGED BY: _____

SAMPLED BY: _____

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-2
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: _____ Time: _____ Well Dia: 4.0"

Depth to Liquid: _____ Well Depth: 29.79'
Depth to Water: _____ Liquid Depth: _____
Free Product: _____ Gallons/Foot: _____
Liquid Volume: _____ (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: _____ Start Time: _____ End Time: _____

Liquid Volume: _____ Purge Rate: _____
Purge Volume (3x liquid volume): _____ Purge Time: _____
Purge Method: Submersible Pump
Comments: _____

SAMPLING: Date: _____ Time: _____

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCl
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: No purge or sample due to LPH present
+ recovery system in place + operable

GAUGED BY: _____

SAMPLED BY: _____

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-3
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 8/18/20 Time: 09:25 Well Dia: 4.0"
Depth to Liquid: 13.75' Well Depth: 29.83'
Depth to Water: 13.75' Liquid Depth: 16.08'
Free Product: 0 Gallons/Foot: 0.67
Liquid Volume: 10.77 (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 8/18/20 Start Time: 11:27 End Time: 11:49

Liquid Volume: 10.77 Purge Rate: 1.6 gpm
Purge Volume (3x liquid volume): 32.31 Purge Time: 22 min.

Purge Method: Submersible Pump
Comments: purged ~ 35 gal.

SAMPLING: Date: 8/19/20 Time: 11:35

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: _____

GAUGED BY: D. Alexander
SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-4
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 8/18/20 Time: 09:17 Well Dia: 4.0"
Depth to Liquid: 12.91' Well Depth: 29.67'
Depth to Water: 12.91' Liquid Depth: 16.76
Free Product: 0 Gallons/Foot: 0.67
Liquid Volume: 11.23 (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 8/18/20 Start Time: 10:47 End Time: 11:03

Liquid Volume: 11.23 Purge Rate: 2.18 gpm
Purge Volume (3x liquid volume): 33.69 Purge Time: 16 min.

Purge Method: Submersible Pump

Comments: purged approx. 35 gal.

SAMPLING: Date: 8/19/20 Time: 11:02

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: _____

GAUGED BY: Dr. Alexander

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-5
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 8/18/20 Time: 11:54 Well Dia: 4.0"
Depth to Liquid: 17.76' Well Depth: 30.08'
Depth to Water: 17.76' Liquid Depth: 12.32
Free Product: 0 Gallons/Foot: 0.67
Liquid Volume: 8.25 (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 8/18/20 Start Time: 12:00 End Time: 12:14

Liquid Volume: 8.25 Purge Rate: 1.78 gpm
Purge Volume (3x liquid volume): 24.75 Purge Time: 14 min

Purge Method: Submersible Pump

Comments: purged ~ 25 gal.

SAMPLING: Date: 8/19/20 Time: 10:51

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: _____

GAUGED BY: D. Alexander

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-6
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 8/18/20 Time: 09:20 Well Dia: 4.0"

Depth to Liquid: 11.79' Well Depth: 29.75'
Depth to Water: 11.79' Liquid Depth: 17.96
Free Product: 0 Gallons/Foot: 0.67
Liquid Volume: 12.03 (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 8/18/20 Start Time: 11:07 End Time: 11:26

Liquid Volume: 12.03 Purge Rate: 2.10 gpm
Purge Volume (3x liquid volume): 36.09 Purge Time: 19 min

Purge Method: Submersible Pump

Comments: purged ~ 40 gal.

SAMPLING: Date: 8/19/20 Time: 11:09

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: _____

GAUGED BY: D. Alexander

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-7
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 8/18/20 Time: 09:00 Well Dia: 4.0"
Depth to Liquid: 11.85 Well Depth: 29.67'
Depth to Water: 11.85 Liquid Depth: 17.82
Free Product: 0 Gallons/Foot: 0.67
Liquid Volume: 11.94 (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 8/18/20 Start Time: 09:34 End Time: 09:53

Liquid Volume: 11.94 Purge Rate: 1.84 gpm
Purge Volume (3x liquid volume): 35.82 Purge Time: 19 min.

Purge Method: Submersible Pump

Comments: pursed ~ 35 gal.

SAMPLING: Date: 8/19/20 Time: 11:20

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: _____

GAUGED BY: D. Alexander
SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-8
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 8/18/20 Time: 12:22 Well Dia: 4.0"
Depth to Liquid: 15.83 Well Depth: 30.00'
Depth to Water: 15.83 Liquid Depth: 14.17
Free Product: 0 Gallons/Foot: 0.07
Liquid Volume: 9.49 (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 8/18/20 Start Time: 12:38 End Time: 12:53
Liquid Volume: 9.49 Purge Rate: 2.0 gpm
Purge Volume (3x liquid volume): 28.47 Purge Time: 15 min
Purge Method: Submersible Pump
Comments: purged ~ 30 gal.

SAMPLING: Date: 8/19/20 Time: 11:40
Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: _____

GAUGED BY: D. Alexander
SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-10
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 8/18/20 Time: 09:15 Well Dia: 4.0"
Depth to Liquid: 11.06 Well Depth: 30.17'
Depth to Water: 11.06 Liquid Depth: 19.11
Free Product: 0 Gallons/Foot: 0.67
Liquid Volume: 12.80 (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 8/18/20 Start Time: 10:22 End Time: 10:43

Liquid Volume: 12.80 Purge Rate: 1.90 gpm
Purge Volume (3x liquid volume): 38.4 Purge Time: 21 min.

Purge Method: Submersible Pump

Comments: purged ~ 40 gal.

SAMPLING: Date: 8/19/20 Time: 10:57

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS:

GAUGED BY: D. Alexander

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MDE-1
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 8/18/20 Time: 12:05 Well Dia: 4.0"
Depth to Liquid: 17.28 Well Depth: 29.92'
Depth to Water: 17.28 Liquid Depth: 12.64
Free Product: 0 Gallons/Foot: 0.67
Liquid Volume: 8.47 (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 8/18/20 Start Time: 12:18 End Time: 12:33
Liquid Volume: 8.47 Purge Rate: 1.67 gpm
Purge Volume (3x liquid volume): 25.41 Purge Time: 15 min.
Purge Method: Submersible Pump
Comments: pursed ~ 25 gal.

SAMPLING: Date: 8/19/20 Time: 10:44
Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: _____

GAUGED BY: D. Alexander
SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MDE-2
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 8/18/20 Time: 09:11 Well Dia: 4.0"

Depth to Liquid: 10.36 Well Depth: 29.71'
Depth to Water: 10.36 Liquid Depth: 19.35
Free Product: 0 Gallons/Foot: 0.67
Liquid Volume: 12.97 (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 8/18/20 Start Time: 9:57 End Time: 10:17

Liquid Volume: 12.97 Purge Rate: 2.0 gpm
Purge Volume (3x liquid volume): 38.91 Purge Time: 20 min.
Purge Method: Submersible Pump

Comments: purged ~ 40 gals.

SAMPLING: Date: 8/19/20 Time: 11:15

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: _____

GAUGED BY: D. Alexander
SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MDE-3
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 8/18/20 Time: 08:55 Well Dia: 4.0"
Depth to Liquid: 1.40' Well Depth: 27.29'
Depth to Water: 1.40' Liquid Depth: 25.89'
Free Product: 0 Gallons/Foot: 0.67
Liquid Volume: 17.34 gal. (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 8/18/20 Start Time: 9:05 End Time: 9:27

Liquid Volume: 17.34 gal. Purge Rate: 2.5 gpm
Purge Volume (3x liquid volume): 52.02 Purge Time: 22 min.

Purge Method: Submersible Pump
Comments: Purged ~ 55 gal

SAMPLING: Date: 8/19/20 Time: 11:30

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS:

GAUGED BY: D. Alexander
SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: Original Tank Field Well

Well #: TF-1
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 8/18/20 Time: 12:10 Well Dia: 4.0"
Depth to Liquid: 13.81 Well Depth: 14.00'
Depth to Water: 13.81 Liquid Depth: 0.19
Free Product: 0 Gallons/Foot: 0.67
Liquid Volume: 0.13 (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: _____ Start Time: _____ End Time: _____

Liquid Volume: _____ Purge Rate: _____
Purge Volume (3x liquid volume): _____ Purge Time: _____

Purge Method: Submersible Pump

Comments: No Purge - < 1.0 ft. water (-.67)

SAMPLING: Date: 8/19/20 Time: 70:35

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

Not enough to collect in bailer - No sample

COMMENTS: _____

GAUGED BY: D. Alexander

SAMPLED BY: _____

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Tank Field Well

Well #: TF-2
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 8/18/20 Time: 12:15 Well Dia: 4.0"
Depth to Liquid: 17.84 Well Depth: 19.33'
Depth to Water: 17.84 Liquid Depth: 1.49
Free Product: 0 Gallons/Foot: 0.67
Liquid Volume: 0.998 (x3)

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 8/18/20 Start Time: 12:17 End Time: 12:17

Liquid Volume: 0.998 Purge Rate: /
Purge Volume (3x liquid volume): 2.99 gal Purge Time: /
Purge Method: Submersible Pump

Comments: purged dry at less than 1 gal.

SAMPLING: Date: 8/19/20 Time: 10:37

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: _____

GAUGED BY: D. Alexander
SAMPLED BY: S. Alexander

Petroleum Management, Inc.

MD. Oil Operation Permit No: 2011-OPT-38311
 EPA Identification NO: MDR000525278
 Federal ID NO: 42-2014536

5218 Curtis Avenue ♦ Baltimore, Maryland 21226 ♦ Phone 410-354-0200 ♦ Fax 410-721-1390

Bill of Lading/Manifest **No. 25946**

Generator/Shipper: Anne Arundel County Public Schools (AACPS)			Billing Name: Anne Arundel County Public Schools (AACPS)		
Site Address: 701 Chase Ave			Address: 9034 Ft Smallwood Rd		
City: Annapolis	State: MD	Zip: 21401	City: Pasadena	State: MD	Zip: 21122
Phone: 410-562-0138	Contact: Jim Perpley		Phone: 443-770-5911	Contact: Jim Perpley	
Purchase Order No:					

MATERIAL CHARACTERIZATION (CHECK ALL THAT APPLY):

Description:	Gallons	Description:	Gallons	Description:	Gallons
Gasoline, 3, UN1203, PGIII		Hazardous Waste, Liquid, 9 NA3082, PGIII		JP#4	
#2 fuel Oil, 3, NA1993, PGIII		Hazardous Waste, Solid, 9 NA3077, PGIII		JP#5	
#4 fuel Oil, 3 NA1993, PGIII		Paint Thinners, 3, UN1263, PGI		Jet A	
#6 fuel Oil, 3, NA1993, PGIII		Ethylene Glycol, 9, UN3082, PGIII		Sludge	
Diesel, 3, NA1993 PGIII		Lube Oil		Petroleum Contaminated Water	275
Flammable Liquids, NOS, 3, UN1993, PGI		Waste Oil		Other	
Corrosive Liquids, NOS, 3, UN1760, PGII		Kerosene		Other	
No of Drums:		No. of Tanks:		Other	
Scale Weights (Soil): Total: (Tons)		Tare: (Tons)		Net: (Tons)	

Service Description : Pumped out drums. Pumped out (5) drums of purge water. Manual manifest # 22534

PLACARDS TENDERED YES NO

EMERGENCY CONTACT (410) 354-0200

Generator/Shipper Certification Statement

As the generator or shipper, I hereby certify that this material is properly classified and does not contain Polychlorinated Biphenyls (PCB'S). To the best of my knowledge it has not been mixed, combined or blended in any amount with any other material defined as hazardous waste under applicable law. Generator/Shipper agrees to indemnify and hold Petroleum Management, Inc. harmless for any damages arising from or in any way relating to a breach of this Certification Statement.

X Generator/Shipper Authorized Agent (Print)	Scott Alexander	Date Of Services	8/19/20
X Generator/Shipper Authorized Agent (Signature)			

HAULER/CARRIER INFORMATION

Co. Name Petroleum Management, Inc.		Driver Name (print) Kelly Silver	
Street 5218 Curtis Avenue		Driver Signature <i>Kelly</i>	
City Baltimore	State MD	Zip 21226	Phone 410-354-0200

The above mentioned materials have been received by this facility and will be handled in accordance with all applicable rules and regulations. All quantities are subject to final verification by this facility and are indicated in far right

RECEIVING FACILITY ACCEPTANCE

Facility Name PMI
Acceptance Signature

Phone: 410-354-0200

Facility Name: PMI

28 August 2020

Scott Alexander
Petroleum Management, Inc.
2138 Priest Bridge Ct., STE 10
Crofton, MD 21114-2450
RE: Bates Middle School

Enclosed are the results of analyses for samples received by the laboratory on 08/19/20 15:21.

Maryland Spectral Services, Inc. is a TNI 2009 Standard accredited laboratory and as such, all analyses performed at Maryland Spectral Services included in this report are 2009 TNI certified except as indicated at the end of this report. Please visit our website at www.mdspectral.com for a complete listing of our TNI 2009 Standard accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Rabecka Koons
Quality Assurance Officer

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MDE-1		0081918-01	Nonpotable Water	08/19/20 10:44	08/19/20 15:21
MDE-2		0081918-02	Nonpotable Water	08/19/20 11:15	08/19/20 15:21
MDE-3		0081918-03	Nonpotable Water	08/19/20 11:30	08/19/20 15:21
MW-3		0081918-04	Nonpotable Water	08/19/20 11:35	08/19/20 15:21
MW-4		0081918-05	Nonpotable Water	08/19/20 11:02	08/19/20 15:21
MW-5		0081918-06	Nonpotable Water	08/19/20 10:51	08/19/20 15:21
MW-6		0081918-07	Nonpotable Water	08/19/20 11:09	08/19/20 15:21
MW-7		0081918-08	Nonpotable Water	08/19/20 11:20	08/19/20 15:21
MW-8		0081918-09	Nonpotable Water	08/19/20 11:40	08/19/20 15:21
MW-10		0081918-10	Nonpotable Water	08/19/20 10:57	08/19/20 15:21
TF-2		0081918-11	Nonpotable Water	08/19/20 10:37	08/19/20 15:21



Rabecka Koons, Quality Assurance Officer

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All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD
Project Manager: Scott Alexander

Analytical Results

MDE-1

0081918-01 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 14:37	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	08/21/20	08/21/20 14:37	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Benzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Bromoform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Bromomethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 14:37	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	08/21/20	08/21/20 14:37	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 14:37	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Chloroethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 14:37	GM
Chloroform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Chloromethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 14:37	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MDE-1

0081918-01 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 14:37	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 14:37	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 14:37	GM
Naphthalene	ND		ug/L	2.0	2.0	1	08/21/20	08/21/20 14:37	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Styrene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Toluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MDE-1

0081918-01 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
o-Xylene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 14:37	GM
<i>Surrogate: 1,2-Dichloroethane-d4</i>			70-130	107 %	08/21/20		08/21/20 14:37		
<i>Surrogate: Toluene-d8</i>			75-120	95 %	08/21/20		08/21/20 14:37		
<i>Surrogate: 4-Bromofluorobenzene</i>			75-120	91 %	08/21/20		08/21/20 14:37		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	08/21/20	08/21/20 16:01	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.24	0.24	1	08/20/20	08/26/20 12:53	SJA
<i>Surrogate: o-Terphenyl</i>			60-120	78 %	08/20/20		08/26/20 12:53		

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD

Project Manager: Scott Alexander

MDE-2

0081918-02 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:03	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	08/21/20	08/21/20 15:03	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Benzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Bromoform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Bromomethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 15:03	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	08/21/20	08/21/20 15:03	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:03	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Chloroethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 15:03	GM
Chloroform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Chloromethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 15:03	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MDE-2

0081918-02 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:03	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:03	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:03	GM
Naphthalene	ND		ug/L	2.0	2.0	1	08/21/20	08/21/20 15:03	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Styrene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Toluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MDE-2

0081918-02 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
o-Xylene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:03	GM
Surrogate: 1,2-Dichloroethane-d4		70-130		108 %	08/21/20		08/21/20 15:03		
Surrogate: Toluene-d8		75-120		94 %	08/21/20		08/21/20 15:03		
Surrogate: 4-Bromofluorobenzene		75-120		91 %	08/21/20		08/21/20 15:03		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	08/21/20	08/21/20 16:31	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.23	0.23	1	08/20/20	08/26/20 13:18	SJA
Surrogate: o-Terphenyl		60-120		73 %	08/20/20		08/26/20 13:18		

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MDE-3

0081918-03 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:28	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	08/21/20	08/21/20 15:28	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Benzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Bromoform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Bromomethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 15:28	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	08/21/20	08/21/20 15:28	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:28	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Chloroethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 15:28	GM
Chloroform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Chloromethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 15:28	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD
Project Manager: Scott Alexander

MDE-3

0081918-03 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:28	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:28	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:28	GM
Naphthalene	ND		ug/L	2.0	2.0	1	08/21/20	08/21/20 15:28	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Styrene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Toluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD

Project Manager: Scott Alexander

MDE-3

0081918-03 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
o-Xylene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:28	GM
Surrogate: 1,2-Dichloroethane-d4		70-130		105 %	08/21/20		08/21/20 15:28		
Surrogate: Toluene-d8		75-120		94 %	08/21/20		08/21/20 15:28		
Surrogate: 4-Bromofluorobenzene		75-120		91 %	08/21/20		08/21/20 15:28		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	08/21/20	08/21/20 17:01	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.23	0.23	1	08/20/20	08/26/20 13:43	SJA
Surrogate: o-Terphenyl		60-120		76 %	08/20/20		08/26/20 13:43		

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MW-3

0081918-04 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:54	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	08/21/20	08/21/20 15:54	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Benzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Bromoform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Bromomethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 15:54	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	08/21/20	08/21/20 15:54	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:54	GM
n-Butylbenzene	3.3		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Chloroethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 15:54	GM
Chloroform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Chloromethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 15:54	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD

Project Manager: Scott Alexander

MW-3

0081918-04 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:54	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:54	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 15:54	GM
Naphthalene	ND		ug/L	2.0	2.0	1	08/21/20	08/21/20 15:54	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Styrene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Toluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MW-3

0081918-04 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	6.9		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
1,3,5-Trimethylbenzene	1.5	J	ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
o-Xylene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 15:54	GM
<i>Surrogate: 1,2-Dichloroethane-d4</i>			70-130	111 %	08/21/20		08/21/20 15:54		
<i>Surrogate: Toluene-d8</i>			75-120	84 %	08/21/20		08/21/20 15:54		
<i>Surrogate: 4-Bromofluorobenzene</i>			75-120	113 %	08/21/20		08/21/20 15:54		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	08/21/20	08/21/20 17:31	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	5.53		mg/L	0.23	0.23	1	08/20/20	08/26/20 14:07	SJA
<i>Surrogate: o-Terphenyl</i>			60-120	87 %	08/20/20		08/26/20 14:07		



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MW-4

0081918-05 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 16:19	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	08/21/20	08/21/20 16:19	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Benzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Bromoform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Bromomethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 16:19	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	08/21/20	08/21/20 16:19	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 16:19	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Chloroethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 16:19	GM
Chloroform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Chloromethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 16:19	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD
Project Manager: Scott Alexander

Reported:

08/28/20 07:57

MW-4

0081918-05 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 16:19	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 16:19	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 16:19	GM
Naphthalene	ND		ug/L	2.0	2.0	1	08/21/20	08/21/20 16:19	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Styrene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Toluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MW-4

0081918-05 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
o-Xylene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:19	GM
Surrogate: 1,2-Dichloroethane-d4			70-130	107 %	08/21/20		08/21/20 16:19		
Surrogate: Toluene-d8			75-120	95 %	08/21/20		08/21/20 16:19		
Surrogate: 4-Bromofluorobenzene			75-120	94 %	08/21/20		08/21/20 16:19		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	08/21/20	08/21/20 18:01	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.24	0.24	1	08/20/20	08/26/20 14:32	SJA
Surrogate: o-Terphenyl			60-120	74 %	08/20/20		08/26/20 14:32		



Rabecka Koons, Quality Assurance Officer

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Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD

Project Manager: Scott Alexander

Analytical Results

MW-5

0081918-06 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 16:44	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	08/21/20	08/21/20 16:44	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Benzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Bromoform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Bromomethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 16:44	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	08/21/20	08/21/20 16:44	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 16:44	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Chloroethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 16:44	GM
Chloroform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Chloromethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 16:44	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MW-5

0081918-06 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 16:44	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 16:44	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 16:44	GM
Naphthalene	ND		ug/L	2.0	2.0	1	08/21/20	08/21/20 16:44	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Styrene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Toluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM



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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MW-5

0081918-06 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
o-Xylene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 16:44	GM
Surrogate: 1,2-Dichloroethane-d4		70-130		103 %	08/21/20		08/21/20 16:44		
Surrogate: Toluene-d8		75-120		96 %	08/21/20		08/21/20 16:44		
Surrogate: 4-Bromofluorobenzene		75-120		94 %	08/21/20		08/21/20 16:44		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	08/21/20	08/21/20 18:30	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.23	0.23	1	08/20/20	08/26/20 14:57	SJA
Surrogate: o-Terphenyl		60-120		85 %	08/20/20		08/26/20 14:57		



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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD

Project Manager: Scott Alexander

MW-6

0081918-07 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 17:10	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	08/21/20	08/21/20 17:10	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Benzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Bromoform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Bromomethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 17:10	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	08/21/20	08/21/20 17:10	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 17:10	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Chloroethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 17:10	GM
Chloroform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Chloromethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 17:10	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM



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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MW-6

0081918-07 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 17:10	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 17:10	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 17:10	GM
Naphthalene	ND		ug/L	2.0	2.0	1	08/21/20	08/21/20 17:10	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Styrene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Toluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD

Project Manager: Scott Alexander

MW-6

0081918-07 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
o-Xylene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:10	GM
Surrogate: 1,2-Dichloroethane-d4		70-130		99 %	08/21/20		08/21/20 17:10		
Surrogate: Toluene-d8		75-120		95 %	08/21/20		08/21/20 17:10		
Surrogate: 4-Bromofluorobenzene		75-120		96 %	08/21/20		08/21/20 17:10		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	08/21/20	08/21/20 19:00	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.22	0.22	1	08/20/20	08/26/20 15:22	SJA
Surrogate: o-Terphenyl		60-120		79 %	08/20/20		08/26/20 15:22		

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD

Project Manager: Scott Alexander

MW-7

0081918-08 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 17:35	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	08/21/20	08/21/20 17:35	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Benzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Bromoform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Bromomethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 17:35	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	08/21/20	08/21/20 17:35	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 17:35	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Chloroethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 17:35	GM
Chloroform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Chloromethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 17:35	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MW-7

0081918-08 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 17:35	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 17:35	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 17:35	GM
Naphthalene	ND		ug/L	2.0	2.0	1	08/21/20	08/21/20 17:35	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Styrene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Toluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM



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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD

Project Manager: Scott Alexander

MW-7

0081918-08 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
o-Xylene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 17:35	GM
Surrogate: 1,2-Dichloroethane-d4		70-130		102 %	08/21/20		08/21/20 17:35		
Surrogate: Toluene-d8		75-120		96 %	08/21/20		08/21/20 17:35		
Surrogate: 4-Bromofluorobenzene		75-120		97 %	08/21/20		08/21/20 17:35		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	08/21/20	08/21/20 19:30	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.22	0.22	1	08/20/20	08/26/20 15:46	SJA
Surrogate: o-Terphenyl		60-120		78 %	08/20/20		08/26/20 15:46		



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD
Project Manager: Scott Alexander

MW-8

0081918-09 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:00	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	08/21/20	08/21/20 18:00	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Benzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Bromoform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Bromomethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 18:00	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	08/21/20	08/21/20 18:00	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:00	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Chloroethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 18:00	GM
Chloroform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Chloromethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 18:00	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD

Project Manager: Scott Alexander

Reported:

08/28/20 07:57

MW-8

0081918-09 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:00	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:00	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:00	GM
Naphthalene	ND		ug/L	2.0	2.0	1	08/21/20	08/21/20 18:00	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Styrene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Toluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD

Project Manager: Scott Alexander

MW-8

0081918-09 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
o-Xylene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:00	GM
Surrogate: 1,2-Dichloroethane-d4			70-130	100 %	08/21/20		08/21/20 18:00		
Surrogate: Toluene-d8			75-120	96 %	08/21/20		08/21/20 18:00		
Surrogate: 4-Bromofluorobenzene			75-120	94 %	08/21/20		08/21/20 18:00		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	08/21/20	08/21/20 20:00	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	0.37		mg/L	0.23	0.23	1	08/20/20	08/26/20 16:11	SJA
Surrogate: o-Terphenyl			60-120	79 %	08/20/20		08/26/20 16:11		



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

Reported:

08/28/20 07:57

MW-10

0081918-10 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting	Detection	Dilution	Prepared	Analyzed	Analyst
				Limit (MRL)	Limit (LOD)				
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:26	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	08/21/20	08/21/20 18:26	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Benzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Bromoform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Bromomethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 18:26	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	08/21/20	08/21/20 18:26	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:26	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Chloroethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 18:26	GM
Chloroform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Chloromethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 18:26	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM



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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MW-10

0081918-10 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:26	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:26	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:26	GM
Naphthalene	ND		ug/L	2.0	2.0	1	08/21/20	08/21/20 18:26	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Styrene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Toluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

MW-10

0081918-10 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
o-Xylene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:26	GM
Surrogate: 1,2-Dichloroethane-d4		70-130		100 %	08/21/20		08/21/20 18:26		
Surrogate: Toluene-d8		75-120		97 %	08/21/20		08/21/20 18:26		
Surrogate: 4-Bromofluorobenzene		75-120		95 %	08/21/20		08/21/20 18:26		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	08/21/20	08/21/20 20:30	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.21	0.21	1	08/20/20	08/26/20 16:36	SJA
Surrogate: o-Terphenyl		60-120		81 %	08/20/20		08/26/20 16:36		

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

Reported:

08/28/20 07:57

TF-2

0081918-11 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting	Detection	Dilution	Prepared	Analyzed	Analyst
				Limit (MRL)	Limit (LOD)				
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:51	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	08/21/20	08/21/20 18:51	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Benzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Bromoform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Bromomethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 18:51	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	08/21/20	08/21/20 18:51	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:51	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Chloroethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 18:51	GM
Chloroform	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Chloromethane	ND		ug/L	5.0	5.0	1	08/21/20	08/21/20 18:51	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD

Project Manager: Scott Alexander

Reported:

08/28/20 07:57

TF-2

0081918-11 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting	Detection	Dilution	Prepared	Analyzed	Analyst
				Limit (MRL)	Limit (LOD)				
Volatiles Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:51	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:51	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	08/21/20	08/21/20 18:51	GM
Naphthalene	ND		ug/L	2.0	2.0	1	08/21/20	08/21/20 18:51	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Styrene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Toluene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM



Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD
Project Manager: Scott Alexander

TF-2

0081918-11 (Nonpotable Water)

Sample Date: 08/19/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
o-Xylene	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	08/21/20	08/21/20 18:51	GM
Surrogate: 1,2-Dichloroethane-d4			70-130	100 %	08/21/20		08/21/20 18:51		
Surrogate: Toluene-d8			75-120	96 %	08/21/20		08/21/20 18:51		
Surrogate: 4-Bromofluorobenzene			75-120	95 %	08/21/20		08/21/20 18:51		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	08/21/20	08/21/20 21:00	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.22	0.22	1	08/20/20	08/26/20 17:01	SJA
Surrogate: o-Terphenyl			60-120	79 %	08/20/20		08/26/20 17:01		

Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD

Project Manager: Scott Alexander

Notes and Definitions

- J Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- %-Solids Percent Solids is a supportive test and as such does not require accreditation



Rebecka Koons, Quality Assurance Officer

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CHAIN-OF-CUSTODY RECORD

Company Name: **Petroleum Management, Inc.**
 Project Name: **Bates Middle School**
 Sampler(s): **S. Alexander**

Project Manager: **Scott Alexander**
 Project ID: **Chase Street**
 P.O. Number: **Annapolis, MD**

Maryland Spectral Services, Inc.
 1500 Caton Center Drive, Suite G
 Baltimore, MD 21227
 410-247-7600 • Fax 410-247-7602
 labman@spectral.com

Matrix Codes: **NW** (nonpotable water)
PW (potable water)

Preservative: **1+1** Field pH, Residual
HCL, H₂SO₄, Methanol, Na₂S₂O₃, NaHCO₃
Chlorine, QC Request, Trip Blank, Field Blank

MSS Lab ID: **0081918-01**

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Analysis Requested	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
MDE-1	8/19/20	10:44	X			3	TPH-DRO TPH-GRO Total VOC (8260)			
MDE-2		11:15								
MDE-3		11:30								
MW-3		11:35								
MW-4		11:02								
MW-5		10:51								
MW-6		11:09								
MW-7		11:20								
MW-8		11:40								
MW-10		10:57								
TF-2		10:37								

Relinquished by: (Signature) *[Signature]* Received by: (Signature) *[Signature]*
 Date/Time: **8/19/20 15:21**

Lab Use:
 Temp: **24°C**
 Received on ice
 Received same day
 Preservation Appropriate

Sample Disposal:
 Return to Client
 Disposal by lab
 Archive for ___ days

Turn Around Time:
 Normal (7 day)
 5 day
 4 day
 3 day
 Rush (2 day)
 Next Day
 Other: _____
 Specific Due Date: _____

Special Instructions/OC Requirements & Comments:
Quarterly MW Samples

Delivery Method:
 Courier
 Client
 UPS
 FedEx
 USPS
 Other: _____