



**Division of Utilities and Solid Waste Management**  
**Environmental Laboratory**  
4520 Metropolitan Court  
Frederick, MD 21704  
Phone: (301) 600-1597 Fax: (301) 600-1502  
MD Drinking Water Certification No. G-1044

**Report of Analysis**

Report Date: May 09, 2019

Sample Collector: 3761LL  
Date/Time Received: 4/25/19 14:51  
Sample Matrix: Drinking\_Water  
Login Record File: 042519\_1452

<u>Location</u>	<u>Test/Parameter</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Method</u>
AQ05942	LLWTP Below Dam						
	4/25/19 12:50						
	Grab						
	Ammonia-N	Present < RDL	0.2	mg/l	4/27/19	SPA	EPA 350.1
	Dissolved Oxygen, Field	9.0	0.1	mg/l	4/25/19	RGS	SM4500-O G
	E. coli, Quantitray	31	1	MPN/100 ml	4/25/19	LKL	SM9223
	Nitrate + Nitrite-N	2.3	0.2	mg/l	4/27/19	SPA	EPA 353.2
	Organic Nitrogen	0.5	0.1	mg/l	4/27/19	SPA	Calculation
	Ortho Phosphate	Present < RDL	0.05	mg/l	4/26/19	SPA	EPA 365.1
	pH, Lab	8.2	1.0	SU	4/25/19	RGS	SM4500-H + B
	Temperature, Field	21	1	C	4/25/19	RGS	EPA 170.1
	TKN	0.5	0.5	mg/l	4/30/19	SPA	EPA 351.2
	Total Nitrogen	2.8	0.1	mg/l	4/27/19	SPA	Calculation
	Total Phosphorus	Present < RDL	0.20	mg/l	4/30/19	SPA	EPA 365.4
	Total Suspended Solids	6	1	mg/l	4/26/19	LKL	SM2540 D
AQ05943	Ben's Branch						
	4/25/19 13:15						
	Grab						
	Ammonia-N	Present < RDL	0.2	mg/l	4/27/19	SPA	EPA 350.1
	Dissolved Oxygen, Field	10.8	0.1	mg/l	4/25/19	RGS	SM4500-O G
	E. coli, Quantitray	145	1	MPN/100 ml	4/25/19	LKL	SM9223
	Nitrate + Nitrite-N	2.8	0.2	mg/l	4/27/19	SPA	EPA 353.2
	Organic Nitrogen	Present < RDL	0.1	mg/l	5/1/19	JAS	Calculation
	Ortho Phosphate	Present < RDL	0.05	mg/l	4/26/19	SPA	EPA 365.1
	pH, Lab	8.3	1.0	SU	4/25/19	RGS	SM4500-H + B
	Temperature, Field	19	1	C	4/25/19	RGS	EPA 170.1
	TKN	Present < RDL	0.5	mg/l	4/30/19	SPA	EPA 351.2
	Total Nitrogen	2.8	0.1	mg/l	5/1/19	JAS	Calculation
	Total Phosphorus	0.30	0.20	mg/l	4/30/19	SPA	EPA 365.4
	Total Suspended Solids	4	1	mg/l	4/26/19	LKL	SM2540 D

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AQ05944	Nightingale Beach						
	4/25/19 13:35						
	Grab						
	Ammonia-N	Present < RDL	0.2	mg/l	4/27/19	SPA	EPA 350.1
	Dissolved Oxygen, Field	11.6	0.1	mg/l	4/25/19	RGS	SM4500-O G
	E. coli, Quantitray	183	1	MPN/100 ml	4/25/19	LKL	SM9223
	Nitrate + Nitrite-N	2.5	0.2	mg/l	4/27/19	SPA	EPA 353.2
	Organic Nitrogen	Present < RDL	0.1	mg/l	5/1/19	JAS	Calculation
	Ortho Phosphate	Present < RDL	0.05	mg/l	4/26/19	SPA	EPA 365.1
	pH, Lab	8.4	1.0	SU	4/25/19	RGS	SM4500-H + B
	Temperature, Field	22	1	C	4/25/19	RGS	EPA 170.1
	TKN	Present < RDL	0.5	mg/l	4/30/19	SPA	EPA 351.2
	Total Nitrogen	2.5	0.1	mg/l	5/1/19	JAS	Calculation
	Total Phosphorus	Present < RDL	0.20	mg/l	4/30/19	SPA	EPA 365.4
	Total Suspended Solids	8	1	mg/l	4/26/19	LKL	SM2540 D
AQ05945	Boyers Mill Bridge						
	4/25/19 13:45						
	Grab						
	Ammonia-N	Present < RDL	0.2	mg/l	4/27/19	SPA	EPA 350.1
	Dissolved Oxygen, Field	11.8	0.1	mg/l	4/25/19	RGS	SM4500-O G
	E. coli, Quantitray	52	1	MPN/100 ml	4/25/19	LKL	SM9223
	Nitrate + Nitrite-N	2.5	0.2	mg/l	4/27/19	SPA	EPA 353.2
	Organic Nitrogen	Present < RDL	0.1	mg/l	5/1/19	JAS	Calculation
	Ortho Phosphate	Present < RDL	0.05	mg/l	4/26/19	SPA	EPA 365.1
	pH, Lab	8.3	1.0	SU	4/25/19	RGS	SM4500-H + B
	Temperature, Field	21	1	C	4/25/19	RGS	EPA 170.1
	TKN	Present < RDL	0.5	mg/l	4/30/19	SPA	EPA 351.2
	Total Nitrogen	2.5	0.1	mg/l	5/1/19	JAS	Calculation
	Total Phosphorus	Present < RDL	0.20	mg/l	4/30/19	SPA	EPA 365.4
	Total Suspended Solids	11	1	mg/l	4/26/19	LKL	SM2540 D

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AQ05946	Coldstream Beach						
	4/25/19 14:00						
	Grab						
	Ammonia-N	Present < RDL	0.2	mg/l	4/27/19	SPA	EPA 350.1
	Dissolved Oxygen, Field	13.0	0.1	mg/l	4/25/19	RGS	SM4500-O G
	E. coli, Quantitray	20	1	MPN/100 ml	4/25/19	LKL	SM9223
	Nitrate + Nitrite-N	2.2	0.2	mg/l	4/27/19	SPA	EPA 353.2
	Organic Nitrogen	0.5	0.1	mg/l	4/27/19	SPA	Calculation
	Ortho Phosphate	Present < RDL	0.05	mg/l	4/26/19	SPA	EPA 365.1
	pH, Lab	8.6	1.0	SU	4/25/19	RGS	SM4500-H + B
	Temperature, Field	23	1	C	4/25/19	RGS	EPA 170.1
	TKN	0.5	0.5	mg/l	4/30/19	SPA	EPA 351.2
	Total Nitrogen	2.7	0.1	mg/l	4/27/19	SPA	Calculation
	Total Phosphorus	Present < RDL	0.20	mg/l	4/30/19	SPA	EPA 365.4
	Total Suspended Solids	8	1	mg/l	4/26/19	LKL	SM2540 D
AQ05947	Linganore Creek						
	4/25/19 14:10						
	Grab						
	Ammonia-N	Present < RDL	0.2	mg/l	4/27/19	SPA	EPA 350.1
	Dissolved Oxygen, Field	9.8	0.1	mg/l	4/25/19	RGS	SM4500-O G
	E. coli, Quantitray	435	1	MPN/100 ml	4/25/19	LKL	SM9223
	Nitrate + Nitrite-N	3.4	0.2	mg/l	4/27/19	SPA	EPA 353.2
	Organic Nitrogen	Present < RDL	0.1	mg/l	5/1/19	JAS	Calculation
	Ortho Phosphate	Present < RDL	0.05	mg/l	4/26/19	SPA	EPA 365.1
	pH, Lab	7.7	1.0	SU	4/25/19	RGS	SM4500-H + B
	Temperature, Field	19	1	C	4/25/19	RGS	EPA 170.1
	TKN	Present < RDL	0.5	mg/l	4/30/19	SPA	EPA 351.2
	Total Nitrogen	3.4	0.1	mg/l	5/1/19	JAS	Calculation
	Total Phosphorus	Present < RDL	0.20	mg/l	4/30/19	SPA	EPA 365.4
	Total Suspended Solids	8	1	mg/l	4/26/19	LKL	SM2540 D

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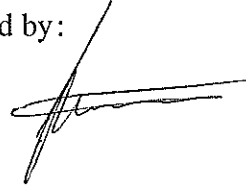
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Verified by:



Joshua Smith  
Laboratory Supervisor

**CHAIN OF CUSTODY RECORD**

Temp Control 2 °C  
 Date/Time/Initial 0654/JS/19  
 S- H<sub>2</sub>SO<sub>4</sub> added by RG on 4/25/19

Analysis on Chain performed:  
 Date/Time/Initial

SAMPLE DATE		Analysis Requested	
April 25, 2019			
Frederick County Division of Utilities and Solid Waste Management Laboratory 7303 Marcies Choice Lane Frederick, MD 21704 Matrix- WW-Wastewater, DW-Drinking Water, Sl-Sludge ** G=Grab, C=Composite		TKN/TP	D
P	P	Ortho-P	PH
S	H <sub>2</sub> SO <sub>4</sub>	F coll	TEMP
Sample Description/Location		Number of Containers per Analysis Requested	
G/C **	Time		
	0:00		
1 LLWTP Below Dam	G 12:50	1	21 8.2 9
2 Ben's Branch	G 13:15	1	19 8.3 10.8
3 Nightingale Beach	G 13:35	1	22 8.4 11.6
4 Boyers Mill Bridge	G 13:45	1	21 8.3 11.8
5 Coldstream Beach	G 14:00	1	23 8.6 13.0
6 Linganore Creek	G 14:0	1	19 7.7 9.8
7			
8			
9			
10			

Print Name	Signature	Date	Time	Remarks
Sampled by: Laura Lamb		04/25/19	1410	
Received by: Robert Shaw		04/25/19	1451	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

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