

**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: July 01, 2020

Sample Collector: 1114LL  
Date/Time Received: 6/19/20 14:20  
Sample Matrix: Drinking\_Water  
Login Record File: 061920\_1424

<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>
AR08417	<b>LLWTP Below Dam</b>						
6/19/20	11:30						
Grab							
	Ammonia-N	Present < RDL	0.2	mg/l	6/20/20	SPA	EPA 350.1
	Dissolved Oxygen, Field	8.4	0.1	mg/l	6/19/20	LKL	SM4500-O G
	E. coli, Quantitray	< 10	1	MPN/100 ml	6/19/20	RGS/SPA	SM9223
	Nitrate + Nitrite-N	2.0	0.2	mg/l	6/21/20	RGS	EPA 353.2
	Organic Nitrogen	0.9	0.1	mg/l	6/20/20	SPA	Calculation
	Ortho Phosphate	Present < RDL	0.05	mg/l	6/19/20	RGS	EPA 365.1
	pH, Lab	7.4	1.0	SU	6/19/20	LKL	SM4500-H + B
	Temperature, Field	25	1	C	6/19/20	LKL	EPA 170.1
	TKN	0.9	0.5	mg/l	6/23/20	RGS	EPA 351.2
	Total Nitrogen	2.9	0.1	mg/l	6/20/20	SPA	Calculation
	Total Phosphorus	Present < RDL	0.20	mg/l	6/23/20	RGS	EPA 365.4
	Total Suspended Solids	6	1	mg/l	6/20/20	SPA	SM2540 D
AR08418	<b>Ben's Branch</b>						
6/19/20	12:10						
Grab							
	Ammonia-N	Present < RDL	0.2	mg/l	6/20/20	SPA	EPA 350.1
	Dissolved Oxygen, Field	8.7	0.1	mg/l	6/19/20	LKL	SM4500-O G
	E. coli, Quantitray	620	1	MPN/100 ml	6/19/20	RGS/SPA	SM9223
	Nitrate + Nitrite-N	2.7	0.2	mg/l	6/21/20	RGS	EPA 353.2
	Organic Nitrogen	Present < RDL	0.1	mg/l	7/1/20	JAS	Calculation
	Ortho Phosphate	Present < RDL	0.05	mg/l	6/19/20	RGS	EPA 365.1
	pH, Lab	7.3	1.0	SU	6/19/20	LKL	SM4500-H + B
	Temperature, Field	22	1	C	6/19/20	LKL	EPA 170.1
	TKN	Present < RDL	0.5	mg/l	6/23/20	RGS	EPA 351.2
	Total Nitrogen	2.7	0.1	mg/l	7/1/20	JAS	Calculation
	Total Phosphorus	Present < RDL	0.20	mg/l	6/23/20	RGS	EPA 365.4
	Total Suspended Solids	5	1	mg/l	6/20/20	SPA	SM2540 D

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AR08419	<b>Nightingale Beach</b>						
	6/19/20 12:30						
	Grab						
	Ammonia-N	Present < RDL	0.2	mg/l	6/20/20	SPA	EPA 350.1
	Dissolved Oxygen, Field	10.8	0.1	mg/l	6/19/20	LKL	SM4500-O G
	E. coli, Quantitray	20	1	MPN/100 ml	6/19/20	RGS/SPA	SM9223
	Nitrate + Nitrite-N	1.8	0.2	mg/l	6/21/20	RGS	EPA 353.2
	Organic Nitrogen	0.8	0.1	mg/l	6/20/20	SPA	Calculation
	Ortho Phosphate	Present < RDL	0.05	mg/l	6/19/20	RGS	EPA 365.1
	pH, Lab	8.2	1.0	SU	6/19/20	LKL	SM4500-H + B
	Temperature, Field	26	1	C	6/19/20	LKL	EPA 170.1
	TKN	0.8	0.5	mg/l	6/23/20	RGS	EPA 351.2
	Total Nitrogen	2.6	0.1	mg/l	6/20/20	SPA	Calculation
	Total Phosphorus	Present < RDL	0.20	mg/l	6/23/20	RGS	EPA 365.4
	Total Suspended Solids	6	1	mg/l	6/20/20	SPA	SM2540 D
AR08420	<b>Boyers Mill Bridge</b>						
	6/19/20 12:50						
	Grab						
	Ammonia-N	Present < RDL	0.2	mg/l	6/20/20	SPA	EPA 350.1
	Dissolved Oxygen, Field	11.2	0.1	mg/l	6/19/20	LKL	SM4500-O G
	E. coli, Quantitray	< 10	1	MPN/100 ml	6/19/20	RGS/SPA	SM9223
	Nitrate + Nitrite-N	1.9	0.2	mg/l	6/21/20	RGS	EPA 353.2
	Organic Nitrogen	1.4	0.1	mg/l	6/20/20	SPA	Calculation
	Ortho Phosphate	Present < RDL	0.05	mg/l	6/19/20	RGS	EPA 365.1
	pH, Lab	8.3	1.0	SU	6/19/20	LKL	SM4500-H + B
	Temperature, Field	26	1	C	6/19/20	LKL	EPA 170.1
	TKN	1.4	0.5	mg/l	6/23/20	RGS	EPA 351.2
	Total Nitrogen	3.3	0.1	mg/l	6/20/20	SPA	Calculation
	Total Phosphorus	Present < RDL	0.20	mg/l	6/23/20	RGS	EPA 365.4
	Total Suspended Solids	9	1	mg/l	6/20/20	SPA	SM2540 D

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AR08421 Coldstream Beach							
6/19/20 13:15							
Grab							
	Ammonia-N	Present < RDL	0.2	mg/l	6/20/20	SPA	EPA 350.1
	Dissolved Oxygen, Field	9.7	0.1	mg/l	6/19/20	LKL	SM4500-O G
	E. coli, Quantitray	189	1	MPN/100 ml	6/19/20	RGS/SPA	SM9223
	Nitrate + Nitrite-N	1.9	0.2	mg/l	6/21/20	RGS	EPA 353.2
	Organic Nitrogen	0.7	0.1	mg/l	6/20/20	SPA	Calculation
	Ortho Phosphate	Present < RDL	0.05	mg/l	6/19/20	RGS	EPA 365.1
	pH, Lab	8.2	1.0	SU	6/19/20	LKL	SM4500-H + B
	Temperature, Field	27	1	C	6/19/20	LKL	EPA 170.1
	TKN	0.7	0.5	mg/l	6/23/20	RGS	EPA 351.2
	Total Nitrogen	2.6	0.1	mg/l	6/20/20	SPA	Calculation
	Total Phosphorus	Present < RDL	0.20	mg/l	6/23/20	RGS	EPA 365.4
	Total Suspended Solids	11	1	mg/l	6/20/20	SPA	SM2540 D

AR08422 Linganore Creek							
6/19/20 13:45							
Grab							
	Ammonia-N	Present < RDL	0.2	mg/l	6/20/20	SPA	EPA 350.1
	Dissolved Oxygen, Field	9.4	0.1	mg/l	6/19/20	LKL	SM4500-O G
	E. coli, Quantitray	882	1	MPN/100 ml	6/19/20	RGS/SPA	SM9223
	Nitrate + Nitrite-N	3.1	0.2	mg/l	6/21/20	RGS	EPA 353.2
	Organic Nitrogen	0.5	0.1	mg/l	6/20/20	SPA	Calculation
	Ortho Phosphate	Present < RDL	0.05	mg/l	6/19/20	RGS	EPA 365.1
	pH, Lab	7.3	1.0	SU	6/19/20	LKL	SM4500-H + B
	Temperature, Field	23	1	C	6/19/20	LKL	EPA 170.1
	TKN	0.5	0.5	mg/l	6/23/20	RGS	EPA 351.2
	Total Nitrogen	3.6	0.1	mg/l	6/20/20	SPA	Calculation
	Total Phosphorus	Present < RDL	0.20	mg/l	6/23/20	RGS	EPA 365.4
	Total Suspended Solids	11	1	mg/l	6/20/20	SPA	SM2540 D

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Verified by:




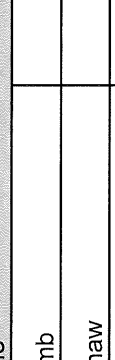
Joshua Smith  
Laboratory Supervisor

CHAIN OF CUSTODY RECORD

Ortho-P filtered at time of collection, 6-19-20 UHL

Temp Control 3 °C  
 Date/Time/Initial U 6-19-20 1420  
 S- H<sub>2</sub>SO<sub>4</sub> added by U on 6-19-20  
 Analysis on Chain performed: UHL 6-19-20

FACILITY LOCATION: LAKE LINGANORE		Analysis Requested													
SAMPLE DATE		Number of Containers per Analysis Requested													
June 19, 2020		TKN/TP	P	S	H <sub>2</sub> SO <sub>4</sub>	P	P	NO <sub>3</sub> NO <sub>2</sub> & NH <sub>3</sub> N	FF coll	Ortho-P	TSS	TEMP	pH	DO	
Sample Description/Location	G/C **	Time	Matrix *												
1 LLWTP Below Dam	G	1130	DW	1	1	1	1	1	1	1	1	25	7.4	8.4	AR08417
2 Ben's Branch	G	1210	DW	1	1	1	1	1	1	1	1	22	7.3	8.7	AR08418
3 Nightingale Beach	G	1230	DW	1	1	1	1	1	1	1	1	26	8.2	10.8	AR08419
4 Bayers Mill Bridge	G	1250	DW	1	1	1	1	1	1	1	1	26	8.3	11.2	AR08420
5 Coldstream Beach	G	1315	DW	1	1	1	1	1	1	1	1	27	8.2	9.7	AR08421
6 Linganore Creek	G	1345	DW	1	1	1	1	1	1	1	1	23	7.3	9.4	AR08422
7															
8															
9															
10															

Print Name	Signature	Date	Time	Remarks
Laura Lamb		06/19/20	1345	
Robert Shaw		06/19/20	1420	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				061920 1424