



Division of Water and Sewer Utilities
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: October 04, 2021

Sample Collector: 1062SA
Date/Time Received: 9/28/21 14:25
Sample Matrix: Drinking_Water
Login Record File: 092821_1427

<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>
AS13559 LLWTP Below Dam							
9/28/21 12:20							
Grab							
	Organic Nitrogen	0.8	0.1	mg/l	9/29/21	SPA	Calculation
	Total Nitrogen	2.3	0.1	mg/l	9/29/21	SPA	Calculation
	Temperature, Field	20	1	C	9/28/21	SPA/LKL	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	9/29/21	SPA	EPA 350.1
	TKN	0.8	0.5	mg/l	9/30/21	SPA	EPA 351.2
	Nitrate + Nitrite-N	1.5	0.2	mg/l	9/29/21	SPA	EPA 353.2
	Ortho Phosphate	0.07	0.05	mg/l	9/29/21	SPA	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	9/30/21	SPA	EPA 365.4
	Total Suspended Solids	12	1	mg/l	9/29/21	RGS	SM2540 D
	pH, Lab	7.6	1.0	SU	9/28/21	SPA/LKL	SM4500-H + B
	Dissolved Oxygen, Field	8.8	0.1	mg/l	9/28/21	SPA/LKL	SM4500-O G
	E. coli, Quantitray	241	1	MPN/100 ml	9/28/21	RGS/KMS	SM9223

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AS13560 Ben's Branch							
9/28/21 12:55							
Grab							
	Organic Nitrogen	Present < RDL	0.1	mg/l	9/29/21	SPA	Calculation
	Total Nitrogen	3.3	0.1	mg/l	9/29/21	SPA	Calculation
	Temperature, Field	20	1	C	9/28/21	SPA/LKL	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	9/29/21	SPA	EPA 350.1
	TKN	Present < RDL	0.5	mg/l	9/30/21	SPA	EPA 351.2
	Nitrate + Nitrite-N	3.3	0.2	mg/l	9/29/21	SPA	EPA 353.2
	Ortho Phosphate	Present < RDL	0.05	mg/l	9/29/21	SPA	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	9/30/21	SPA	EPA 365.4
	Total Suspended Solids	2	1	mg/l	9/29/21	RGS	SM2540 D
	pH, Lab	7.6	1.0	SU	9/28/21	SPA/LKL	SM4500-H + B
	Dissolved Oxygen, Field	8.6	0.1	mg/l	9/28/21	SPA/LKL	SM4500-O G
	E. coli, Quantitray	350	1	MPN/100 ml	9/28/21	RGS/KMS	SM9223

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AS13561	Nightingale Beach						
9/28/21	13:40						
	Grab						
	Organic Nitrogen	1.9	0.1	mg/l	9/29/21	SPA	Calculation
	Total Nitrogen	3.4	0.1	mg/l	9/29/21	SPA	Calculation
	Temperature, Field	22	1	C	9/28/21	SPA/LKL	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	9/29/21	SPA	EPA 350.1
	TKN	1.9	0.5	mg/l	9/30/21	SPA	EPA 351.2
	Nitrate + Nitrite-N	1.5	0.2	mg/l	9/29/21	SPA	EPA 353.2
	Ortho Phosphate	Present < RDL	0.05	mg/l	9/29/21	SPA	EPA 365.1
	Total Phosphorus	0.29	0.20	mg/l	9/30/21	SPA	EPA 365.4
	Total Suspended Solids	22	1	mg/l	9/29/21	RGS	SM2540 D
	pH, Lab	8.5	1.0	SU	9/28/21	SPA/LKL	SM4500-H + B
	Dissolved Oxygen, Field	11.5	0.1	mg/l	9/28/21	SPA/LKL	SM4500-O G
	E. coli, Quantitray	345	1	MPN/100 ml	9/28/21	RGS/KMS	SM9223

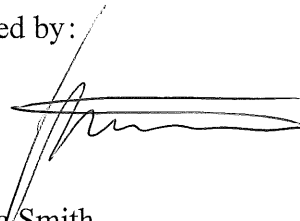
Sample Collector: 1062SA
 Date/Time Received: 9/28/21 14:25
 Sample Matrix: Drinking_Water
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<u>Location</u>	<u>Test/Parameter</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Method</u>
AS13562	Boyers Mill Bridge						
	9/28/21 13:10						
	Grab						
	Organic Nitrogen	2.4	0.1	mg/l	9/29/21	SPA	Calculation
	Total Nitrogen	3.9	0.1	mg/l	9/29/21	SPA	Calculation
	Temperature, Field	22	1	C	9/28/21	SPA/LKL	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	9/29/21	SPA	EPA 350.1
	TKN	2.4	0.5	mg/l	9/30/21	SPA	EPA 351.2
	Nitrate + Nitrite-N	1.5	0.2	mg/l	9/29/21	SPA	EPA 353.2
	Ortho Phosphate	0.05	0.05	mg/l	9/29/21	SPA	EPA 365.1
	Total Phosphorus	0.38	0.20	mg/l	9/30/21	SPA	EPA 365.4
	Total Suspended Solids	24	1	mg/l	9/29/21	RGS	SM2540 D
	pH, Lab	9.0	1.0	SU	9/28/21	SPA/LKL	SM4500-H + B
	Dissolved Oxygen, Field	12.3	0.1	mg/l	9/28/21	SPA/LKL	SM4500-O G
	E. coli, Quantitray	359	1	MPN/100 ml	9/28/21	RGS/KMS	SM9223

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AS13563 Coldstream Beach							
9/28/21 13:25							
Grab							
	Organic Nitrogen	0.8	0.1	mg/l	9/29/21	SPA	Calculation
	Total Nitrogen	2.1	0.1	mg/l	9/29/21	SPA	Calculation
	Temperature, Field	23	1	C	9/28/21	SPA/LKL	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	9/29/21	SPA	EPA 350.1
	TKN	0.8	0.5	mg/l	9/30/21	SPA	EPA 351.2
	Nitrate + Nitrite-N	1.3	0.2	mg/l	9/29/21	SPA	EPA 353.2
	Ortho Phosphate	0.05	0.05	mg/l	9/29/21	SPA	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	9/30/21	SPA	EPA 365.4
	Total Suspended Solids	6	1	mg/l	9/29/21	RGS	SM2540 D
	pH, Lab	8.3	1.0	SU	9/28/21	SPA/LKL	SM4500-H + B
	Dissolved Oxygen, Field	10.6	0.1	mg/l	9/28/21	SPA/LKL	SM4500-O G
	E. coli, Quantitray	243	1	MPN/100 ml	9/28/21	RGS/KMS	SM9223

Verified by:



Joshua Smith
Laboratory Supervisor

CHAIN OF CUSTODY RECORD

* Ortho-P samples filtered at the time of collection. 9-28-21 SPA

FACILITY LOCATION: LAKE LINGANORE

SAMPLE DATE September 28, 2021

Analysis Requested

Temp Control 3 °C

Date/Time/Initial 9-28-21 1425 SPA

S-H₂SO₄ added by RG5 on 9-28-21

Analysis on Chain performed: SPA 9-28-21

Frederick County
Division of Water and Sewer Utilities
Laboratory
7303 Marcies Choice Lane
Frederick, MD 21704

TKN/TP	NO3NO2 & NH3N	E coli	* Ortho-P	TSS	TEMP	H ₂	O ₂
P	P		P	P			
S	H ₂ SO ₄						

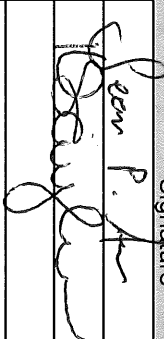
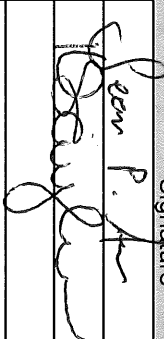
Container Type
Preservative

* Matrix- WWV-Wastewater, DW-Drinking Water, SI-Sludge
** G=Grab, C=Composite

Number of Containers per Analysis Requested

Comments

LIMS#

Sample Description/Location	G/C	Time	Matrix	Number of Containers per Analysis Requested								Comments	LIMS#	
	**	0:00	*											
1 LLWTP Below Dam	G	1220	DW	1	1	1	1							AS13559
2 Ben's Branch	G	1255	DW	1	1	1	1							AS13560
3 Nightingale Beach	G	1340	DW	1	1	1	1							AS13561
4 Boyers Mill Bridge	G	1310	DW	1	1	1	1							AS13562
5 Coldstream Beach	G	1325	DW	1	1	1	1							AS13563
6														
7														
8														
9														
10														
				Print Name		Signature				Date	Time	Remarks		
Sampled by:	Sean Allen						09/28/21	1340						
Received by:	Kate Saylor						09/28/21	1425						
Relinquished by:														
Received by:														
Relinquished by:														
Received by:														
Relinquished by:														
Received by:														
Relinquished by:														

(5)

kmf