



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: January 16, 2026

Sample Collector: 1432RS
Date/Time Received: 12/16/25 13:45
Sample Matrix: Drinking_Water
Login Record File: 121625_1347

<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>
AW18466 LLWTP Below Dam							
12/16/25 12:55							
Grab							
	Organic Nitrogen	0.7	0.1	mg/l	12/17/25	KMS	Calculation
	Total Nitrogen	2.5	0.1	mg/l	12/17/25	KMS	Calculation
	Temperature, Field	4	1	C	12/16/25	RGS	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	12/17/25	KMS	EPA 350.1
	TKN	0.7	0.5	mg/l	12/18/25	KMS	EPA 351.2
	Nitrate + Nitrite-N	1.8	0.2	mg/l	12/17/25	KMS	EPA 353.2
	Ortho Phosphate	Present < RDL	0.06	mg/l	12/17/25	KMS	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	12/18/25	KMS	EPA 365.4
	Total Suspended Solids	5	1	mg/l	12/17/25	SDW	SM2540 D
	pH, Lab	7.6	1.0	SU	12/16/25	RGS	SM4500-H + B
	Dissolved Oxygen, Field	11.2	0.1	mg/l	12/16/25	RGS	SM4500-O G
	E. coli, Quantitray	10	1	MPN/100 ml	12/16/25	LKL/RGS/KM	SM9223

Sample Collector: 1432RS
Date/Time Received: 12/16/25 13:45
Sample Matrix: Drinking_Water
Login Record File: 121625_1347

<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>
AW18467 Ben's Branch							
12/16/25 12:30							
Grab							
	Organic Nitrogen	0.5	0.1	mg/l	12/17/25	KMS	Calculation
	Total Nitrogen	3.9	0.1	mg/l	12/17/25	KMS	Calculation
	Temperature, Field	2	1	C	12/16/25	RGS	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	12/17/25	KMS	EPA 350.1
	TKN	0.5	0.5	mg/l	12/18/25	KMS	EPA 351.2
	Nitrate + Nitrite-N	3.4	0.2	mg/l	12/17/25	KMS	EPA 353.2
	Ortho Phosphate	Present < RDL	0.06	mg/l	12/17/25	KMS	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	12/18/25	KMS	EPA 365.4
	Total Suspended Solids	Present < RDL	1	mg/l	12/17/25	SDW	SM2540 D
	pH, Lab	7.4	1.0	SU	12/16/25	RGS	SM4500-H + B
	Dissolved Oxygen, Field	10.7	0.1	mg/l	12/16/25	RGS	SM4500-O G
	E. coli, Quantitray	10	1	MPN/100 ml	12/16/25	LKL/RGS/KM:	SM9223

Verified by:



Christopher Baggett
Laboratory Supervisor

CHAIN OF CUSTODY RECORD

Ortho-P samples filtered at the time of collection.

12-16-25 LKL

FACILITY LOCATION: LAKE LINGANORE				Analysis Requested										Temp Control <u>2</u> °C		
SAMPLE DATE December 16, 2025														Date/Time/Initial <u>12-16-25 1345 LKL</u>		
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	pH	D.O.	S- H2SO4 added by <u>LKL</u> on <u>12-16-25</u>	
* Matrix- WW-Wastewater, DW-Drinking Water, SI-Sludge				P	P		P	P							Analysis on Chain performed:	
** G=Grab, C=Composite				S	H2SO4										Date/Time/Initial	
Sample Description/Location				G/C **	Time 0:00	Matrix *	Number of Containers per Analysis Requested						Comments		LIMS#	
1 LLWTP Below Dam				G	1255	DW	1	1	1	1	1		4	7.0	11.2	AW18 4GG
2 Ben's Branch				G	1230	DW	1	1	1	1	1		2	7.4	10.7	AW18 4G7
3 Nightingale Beach				G	—	DW							—	—	—	AW18 —
4 Boyers Mill Bridge				G	—	DW							—	—	—	AW18 —
5 Coldstream Beach				G	—	DW							—	—	—	AW18
6 Linganore Creek				G	—	DW							—	—	—	AW18
7																
8																
9																
10																
Print Name				Signature						Date		Time		Remarks		
Sampled by:				Robert Shaw						12/16/25		1255				
Received by:				Laura Lamb						12/16/25		1345				
Relinquished by:																
Received by:																
Relinquished by:																
Received by:														121625 1347		