



Wrighter Lake Water Testing
September 12, 2023

1
41.50.43N
75-28-47W

2
41.50.48N
75.28.42W

3
41.50.57N
75.28.40W

4
41.51.04N
75.28.37W

5
41.51.11N
75.28.33W

6
41.51.05N
75.28.26W

7
41.51.00N
75.28.22W

8
41.50.53N
75.28.20W

11
41.50.46N
75.28.24W

9
41.50.47N
75.28.18W

12
41.50.44N
75.28.34W

13
41.50.39N
75.28.42W

10
41.50.40N
75.28.19W



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30556	WL Site #1	9/14/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	< 1	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	36	greater than 1,000
pH	-	7.1	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	16	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	22	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	< 0.010	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.7	greater than 250

IMPORTANT: The above results and interpretations are applicable to pond water only.

*Please see the enclosed Fact Sheet, Interpreting Water Tests for Ponds and Lakes

For more information on how to properly manage your pond or lake, visit our web site: <http://extension.psu.edu/water/ponds>

If you have any questions on your test report, please contact Peter Wulfhorst, Penn State extension educator, at 570-296-3400 or ptw3@psu.edu.

¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30557	WL Site #2	9/14/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	2	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	39	greater than 1,000
pH	-	7.2	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	17	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	22	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	< 0.010	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.7	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30558	WL Site #3	9/14/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	1	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	37	greater than 1,000
pH	-	7.1	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	16	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	22	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	< 0.010	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.6	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30559	WL Site #4	9/14/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	2	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	36	greater than 1,000
pH	-	7.1	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	16	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	22	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	0.018	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.6	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30560	WL Site #5	9/14/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	1	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	37	greater than 1,000
pH	-	7.1	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	16	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	22	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	0.019	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.7	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30561	WL Site #6	9/14/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	3	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	36	greater than 1,000
pH	-	7.2	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	16	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	22	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	< 0.010	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.7	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30562	WL Site #7	9/14/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	< 1	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	36	greater than 1,000
pH	-	7.2	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	16	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	21	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	0.023	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.8	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30563	WL Site #8	9/14/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	2	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	37	greater than 1,000
pH	-	7.2	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	16	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	21	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	0.025	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.8	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30564	WL Site #9	9/14/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	< 1	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	36	greater than 1,000
pH	-	7.2	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	16	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	21	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	0.017	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.7	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30565	WL Site #10	9/14/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	2	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	37	greater than 1,000
pH	-	7.2	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	17	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	21	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	0.023	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.7	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30566	WL Site #11	9/14/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	< 1	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	36	greater than 1,000
pH	-	7.2	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	17	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	21	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	0.018	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.7	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30567	WL Site #12	9/15/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	3	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	37	greater than 1,000
pH	-	6.0	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	19	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	22	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	0.015	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.7	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
Bob Lissner C/O Wrighter Lake 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W30568	WL Site #13	9/15/2023	9/12/2023	Pond Water	Susquehanna

**WATER ANALYSIS
Pond/Lake Water Report (WP02)**

Analysis	Units	Your Test Results	Level of concern
<i>E. coli</i> Bacteria	MPN ¹ per 100 mL	1	greater than 126 (for swimming)
Nitrate as N	mg/L	< 0.2	greater than 3
Phosphorus (P)	mg/L	< 0.025	detectable (greater than 0.025 mg/L)
Total Dissolved Solids (TDS)	mg/L	37	greater than 1,000
pH	-	6.1	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	19	levels close to zero or not detected
Hardness as CaCO ₃	mg/L	22	greater than 50 or 150 depending on pond use
Iron (Fe)	mg/L	< 0.10	greater than 0.3
Manganese (Mn)	mg/L	0.020	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	2.7	greater than 250

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¹Probable number of colonies per 100 mL of water