



Analysis Report For:				Copy To:	
Robert Lissner Wrighter Lake Association 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24439	Site #8	9/13/2021	9/7/2021	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	-	6.6	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	14	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	0.088	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.6	greater than 250

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

Manganese is high.*

*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 OR Bryan Swistock, extension associate, at 814-863-0194 or brs@psu.edu.

¹Probable number of colonies per 100 mL of water



Analysis Report For:			Copy To:		
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LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24440	Site #9	9/13/2021	9/7/2021	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	6	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	35	greater than 1,000
pH	-	6.6	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	13	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	0.074	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.6	greater than 250

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Manganese is high.*

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¹Probable number of colonies per 100 mL of water



Analysis Report For:			Copy To:		
Robert Lissner Wrighter Lake Association 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24441	Site #13	9/13/2021	9/7/2021	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	35	greater than 1,000
pH	-	6.6	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	14	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	0.097	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.6	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:				Copy To:	
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LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24442	Site #10	9/13/2021	9/7/2021	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	-	6.6	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	14	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	0.076	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.6	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:			Copy To:		
Robert Lissner Wrighter Lake Association 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24443	Site #11	9/13/2021	9/7/2021	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	-	6.6	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	14	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	0.073	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.5	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:			Copy To:		
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LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24444	Site #12	9/13/2021	9/7/2021	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	35	greater than 1,000
pH	-	6.6	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	15	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	0.109	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.5	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:			Copy To:		
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LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24445	Site #2	9/13/2021	9/7/2021	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	-	6.6	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	13	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	0.091	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.6	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:			Copy To:		
Robert Lissner Wrighter Lake Association 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24446	Site #1	9/13/2021	9/7/2021	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	35	greater than 1,000
pH	-	6.6	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	13	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	0.101	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.6	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:			Copy To:		
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LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24447	Site #3	9/13/2021	9/7/2021	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	-	6.7	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	14	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	0.096	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.6	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:			Copy To:		
Robert Lissner Wrighter Lake Association 114 Locust Lane Thompson PA 18465					
LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24448	Site #6	9/13/2021	9/7/2021	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	-	6.6	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	14	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	0.086	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.5	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:			Copy To:		
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LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24449	Site #4	9/13/2021	9/7/2021	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	-	6.7	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	14	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	0.093	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.6	greater than 250

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¹Probable number of colonies per 100 mL of water



Analysis Report For:			Copy To:		
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LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24450	Site #5	9/13/2021	9/7/2021	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	-	6.7	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	13	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	0.093	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.5	greater than 250

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¹Probable number of colonies per 100 mL of water



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LAB ID	SAMPLE ID	REPORT DATE	DATE SAMPLED	SAMPLE TYPE	COUNTY
W24451	Site #7	9/13/2021	9/7/2021	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	-	6.7	less than 6 or greater than 9
Total Alkalinity	mg CaCO ₃ /L	13	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	0.082	greater than 0.05
Aluminum (Al)	mg/L	< 0.03	greater than 0.1
Sulfate (SO ₄)	mg/L	3.5	greater than 250

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¹Probable number of colonies per 100 mL of water