

Water Action Volunteers Stream Monitoring Data Recording Form - Version 2015.1.4

Station Info	WAV Station Number*: <u>643032</u> Date*: <u>6/5/2023</u> Time*: <u>8:30</u> (AM or PM) WAV Station Name*: <u>WI R. @ USH 45N Land O' Lakes</u> Team Member Name(s)*: <u>Carolyn Scholl; Cathy Higley</u>
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*Denotes required field

Weather	Weather: (circle one) Sunny <u>Partly Sunny</u> Cloudy Rain Thunderstorm Snow	Sampling Date: (circle one) Primary Safety Other
	Weather over past two days: <u>Sunny; warm; scattered Rain</u>	
	Current Stream Condition : (circle one) <u>Normal</u> Flooding Dry Stagnant Frozen Other	
	Observations: _____	

WAV Monitoring Parameters	Parameters Tested	Your Results				Units
	Air Temperature					°C
	Water Temperature	<u>21.3</u>				°C
	Dissolved Oxygen (D.O.) Sampling Method	Circle One:	Hach Kit	LaMotte Kit	<u>YSI 550A Meter</u>	Other: _____
	D.O. mg/L	No. of Titration Drops: _____	No. of Plastic Measuring Tubes: _____	Dissolved Oxygen Content: <u>4.4</u>	mg/L	
	D.O. % Saturation	<u>50</u>				%
	pH					-
	Transparency	Tube Length (circle one)		Trial #1	Trial #2	Average
		60 cr	100 cm	<u>120 cm</u>	<u>120</u>	<u>120</u>
	Specific Conductance	ECTestr reading: _____ ms/cm or µS/cm (circle units displayed)				
Chloride Sample	Collected? Y <u>(N)</u> Point/Outfall Number: _____					
Total Phosphorus Sample	Collected? Y <u>(N)</u> Point/Outfall Number: _____					

Streamflow Monitoring	Streamflow was monitored this sampling event (select one): Yes <input checked="" type="checkbox"/> No _____						Length Assessed: <u>20</u> ft		
	If No, why not? _____						Stream Width*: <u>46</u> ft		
	Stream Depth Measurements								
	Point	Depth 10 ^{ths} Feet	Point	Depth 10 ^{ths} Feet	Depth Conversion Chart				
					Ft/In	10 ^{ths} Ft	Ft/In	10 ^{ths} Ft	
	<u>1</u>	<u>0</u>	<u>11</u>	<u>1.0</u>	<u>3/8-7/8</u>	<u>0.05</u>	<u>6^{3/8}-6^{7/8}</u>	<u>0.55</u>	
	<u>2</u>	<u>0.6</u>	<u>12</u>	<u>1.0</u>	<u>1-1^{1/2}</u>	<u>0.1</u>	<u>7-7^{3/8}</u>	<u>0.6</u>	
	<u>3</u>	<u>0.7</u>	<u>13</u>	<u>0.92</u>	<u>1^{5/8}-2</u>	<u>0.15</u>	<u>7^{1/2}-8</u>	<u>0.65</u>	
	<u>4</u>	<u>0.75</u>	<u>14</u>	<u>0.92</u>	<u>2^{1/8}-2^{5/8}</u>	<u>0.2</u>	<u>8^{1/8}-8^{5/8}</u>	<u>0.7</u>	
	<u>5</u>	<u>0.7</u>	<u>15</u>	<u>0.9</u>	<u>2^{3/4}-3^{1/4}</u>	<u>0.25</u>	<u>8^{3/4}-9^{1/4}</u>	<u>0.75</u>	
<u>6</u>	<u>0.85</u>	<u>16</u>	<u>0.92</u>	<u>3^{3/8}-3^{7/8}</u>	<u>0.3</u>	<u>9^{3/8}-9^{7/8}</u>	<u>0.8</u>		
<u>7</u>	<u>0.9</u>	<u>17</u>	<u>0.9</u>	<u>4-4^{3/8}</u>	<u>0.35</u>	<u>10-10^{3/8}</u>	<u>0.85</u>		
<u>8</u>	<u>0.85</u>	<u>18</u>	<u>0.88</u>	<u>4^{1/2}-5</u>	<u>0.4</u>	<u>10^{1/2}-11</u>	<u>0.9</u>		
<u>9</u>	<u>0.95</u>	<u>19</u>	<u>0.9</u>	<u>5^{1/8}-5^{5/8}</u>	<u>0.45</u>	<u>11^{1/8}-11^{5/8}</u>	<u>0.95</u>		
<u>10</u>	<u>0.8</u>	<u>20</u>	<u>0.9</u>	<u>5^{3/4}-6^{1/4}</u>	<u>0.5</u>	<u>11^{3/4}-12</u>	<u>1.0</u>		
								Velocity Float Trials	
								Trial Number	Time (Seconds)
								<u>1</u>	<u>14.0</u>
								<u>2</u>	<u>15.63</u>
								<u>3</u>	<u>14.44</u>
								<u>4</u>	<u>11.57</u>
								Velocity Correction Factor	
								Circle the bottom type	
								Rough	<u>0.8</u>
								Smooth	<u>0.9</u>

Monitoring Equipment Calibration	DO Meter: Yes <input checked="" type="checkbox"/> No _____ pH Meter: Yes _____ No _____ ECTestr Yes _____ No _____
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Equipment Cleaning and Disinfection	Boots/Waders/Footwear and other monitoring materials cleaned and disinfected? Yes <input checked="" type="checkbox"/> No _____
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Expected Ranges for Parameters ©	
H2O Temperature:	12-30 °C
Dissolved Oxygen:	3-7 mg/L
D.O % Saturation:	90-110 %
pH:	6.0-9.0
Transparency Tube:	≤120 cm

Thermistor

Serial #: _____ Type: HOBO (long grey) TIDBIT (yellow) TIDBIT V2 (orange)

Activity Performed (circle one): Deployment Retrieval Monthly Check

Deployment/Retrieval Time: _____ AM or PM Monthly Check - thermistor submersed? Yes ___ No ___

Describe location of thermistor if you deployed it today, or action(s) taken if thermistor was not submersed:

Biotic Index (monitored in May and late September/early October)

**You may use the Key to Macroinvertebrate Life in the River to help you identify macroinvertebrates

Group 1: These are sensitive to pollutants. Circle each animal found.



Stonefly Larva



Dobsonfly Larva



Alderfly Larva

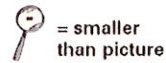
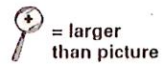


Water Snipe Fly Larva

No. of group 1 animals circled:



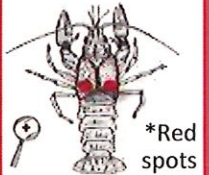
Relative Size Key:



Key Aquatic Invasive Species (AIS)

Circle AIS shown below if you think you found any:

Rusty Crayfish



Asian Clam



New Zealand Mudsail

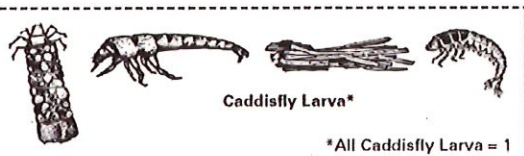


Faucet Snail



If found, collect voucher or photo and report to DNR or WAV Coordinator.

Group 2: These are semi-sensitive to pollutants. Circle each animal found.



Caddisfly Larva*

*All Caddisfly Larva = 1



Dragonfly Larva



Water Penny



Crawfish

No. of group 2 animals circled:



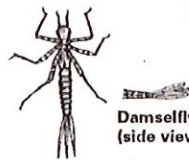
Crane Fly Larvae



Freshwater Mussel or Fingernail clam



Mayfly Larva



Damselfly tail (side view)

Damselfly Larva



Riffle Beetle Larva*



Riffle Beetle Adult*

*All Riffle Beetles = 1

Group 3: These are semi-tolerant of pollutants. Circle each animal found.



Black Fly Larva



Non-Red Midge Larva



Snails: Orb or Gilled (right side opening)



*All Snails = 1



Amphipod or Scud

No. of group 3 animals circled:



Group 4: These are tolerant of pollutants. Circle each animal found.



Pouch Snail (left side opening)



Isopod or Aquatic Sowbug



Bloodworm Midge Larva (red)



Leech



Tubifex Worm

No. of group 4 animals circled:



Date data entered into SWIMS? 6/12/2023

Data Entry Volunteer Initials: C.S.

Observed Northern Brook Lamprey (2/10)