

Water Action Volunteers Stream Monitoring Data Recording Form - Version 2015.1.4

Station Info	WAV Station Number*: <u>10039200</u> Date*: <u>10/23/2023</u> Time*: <u>10:31</u> AM or PM
	WAV Station Name*: <u>Rice Creek at Bear Lake Road</u>
	Team Member Name(s)*: <u>Michele Jasik & Lyn Kirschner</u>

*Denotes required field

Weather	Weather: (circle one) Sunny Partly Sunny <u>Cloudy</u> Rain Thunderstorm Snow	Sampling Date: (circle one) <u>Primary</u> Safety Other
	Weather over past two days: _____	
	Current Stream Condition : (circle one) <u>Normal</u> Flooding Dry Stagnant Frozen Other	
Observations: <u>slower moving, leaves at mostly gone; no fish</u>		

WAV Monitoring Parameters	Parameters Tested	Your Results				Units	
	Air Temperature				<u>13</u>	°C	
	Water Temperature				<u>13</u>	°C	
	Dissolved Oxygen (D.O.) Sampling Method	Circle One: <u>Hach Kit</u>	LaMotte Kit	YSI 550/ Meter	Other: _____	-	
	D.O. mg/L	No. of Titration Drops: <u>28</u>	No. of Plastic Measuring Tubes: <u>2</u>	Dissolved Oxygen Content: <u>14</u>		mg/L	
	D.O. % Saturation			<u>100</u>		%	
	pH					-	
	Transparency	Tube Length (circle one)		Trial #1	Trial #2	Average	-
		60 cm	100 cm	<u>120</u>	<u>120</u>	<u>120</u>	cm
	Specific Conductance	ECTestr reading: _____ ms/cm or µS/cm (circle units displayed)					
Chloride Sample	Collected? Y ___ N <u>X</u> Point/Outfall Number: _____						
Total Phosphorus Sample	Collected? Y ___ N <u>X</u> Point/Outfall Number: _____						

Streamflow Monitoring	Streamflow was monitored this sampling event (select one): Yes <u>X</u> No ___						Length Assessed: <u>20</u> ft	
	If No, why not? _____						Stream Width*: <u>23.8</u> ft	
	Stream Depth Measurements							
	Point	Depth	Point	Depth	Depth Conversion Chart			
		10 th s Feet		10 th s Feet	Ft/In	10 th s Ft	Ft/In	10 th s Ft
	<u>1</u>	<u>0</u>	<u>11</u>	<u>0.7</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>0.8</u>	<u>12</u>	<u>0.7</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>1.1</u>	<u>13</u>	<u>0.7</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>1.3</u>	<u>14</u>	<u>0.8</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>1.4</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>1.5</u>	<u>16</u>	<u>1.0</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>1.4</u>	<u>17</u>	<u>1.1</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>1.3</u>	<u>18</u>	<u>1.0</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>1.0</u>	<u>19</u>	<u>1.3</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>0.9</u>	<u>20</u>	<u>1.4</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>39.75</u>						
<u>2</u>		<u>37.41</u>						
<u>3</u>		<u>36.50</u>						
<u>4</u>		<u>35.84</u>						
Velocity Correction Factor								
Circle the bottom type								
Rough				0.8				
<u>Smooth</u>				0.9				

Monitoring Equipment Calibration	DO Meter: Yes ___ No ___
	pH Meter: Yes ___ No ___
	ECTestr Yes ___ No ___

Equipment Cleaning and Disinfection	Boots/Waders/Footwear and other monitoring materials cleaned and disinfected? Yes ___ 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

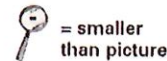
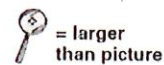


Water Snipe Fly Larva

No. of group 1 animals circled:



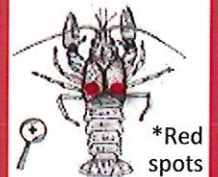
Relative Size Key:



Key Aquatic Invasive Species (AIS)

Circle AIS shown below if you think you found any:

Rusty Crayfish



Asian Clam



New Zealand Mudsnail

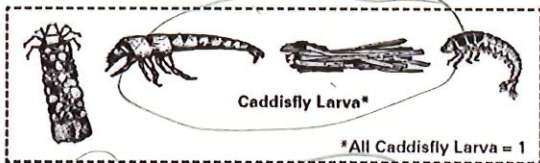


Faucet Snail



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*

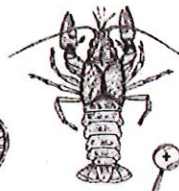
*All Caddisfly Larva = 1



Dragonfly Larva



Water Penny



Crawfish

No. of group 2 animals circled:



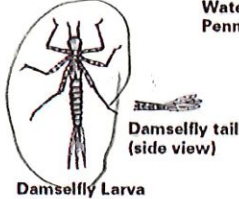
Crane Fly Larvae



Freshwater Mussel or Fingernail clam



Mayfly Larva



Damselfly Larva



Damselfly tail (side view)



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? 10 / 23 / 2023

Data Entry Volunteer Initials: MSJ