

Water Action Volunteers Stream Monitoring Data Recording Form - Version 2015.1.4

Station Info	WAV Station Number*: <u>10052841</u> Date*: <u>5/15/2023</u> Time*: <u>2:12</u> AM or PM
	WAV Station Name*: <u>Kentville Cr near to sand walk on VSA property</u>
	Team Member Name(s)*: <u>Cathy Hingley</u>

*Denotes required field

Weather	Weather: (circle one) <u>Sunny</u> Partly Sunny Cloudy Rain Thunderstorm Snow	Sampling Date: (circle one) <u>Primary</u> Safety Other
	Weather over past two days: <u>partly sunny, no rain</u>	
	Current Stream Condition : (circle one) <u>Normal</u> Flooding Dry Stagnant Frozen Other	
	Observations: <u>Water at OAVM, not exactly flooding</u>	

WAV Monitoring Parameters	Parameters Tested	Your Results				Units
	Air Temperature	<u>25.0 °C</u>				°C
	Water Temperature	<u>101.5 °F / 16.3 °C</u>				°C
	Dissolved Oxygen (D.O.) Sampling Method	Circle One:	Hach Kit	LaMotte Kit	YSI 550A Meter	Other: <u>YSI 000</u>
	D.O. mg/L	No. of Titration Drops:	No. of Plastic Measuring Tubes:	Dissolved Oxygen Content:	<u>12.0</u>	mg/L
	D.O. % Saturation	<u>123</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>	<u>120</u>	cm
	Specific Conductance	ECTestr reading: _____ ms/cm or µS/cm (circle units displayed)				
Chloride Sample	Collected? Y <u>N</u> X Point/Outfall Number: _____					
Total Phosphorus Sample	Collected? Y <u>N</u> X 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>14</u> ft							
	Stream Depth Measurements		*If stream ≤ 20 ft. wide, measure depth every foot across the width. If stream is > 20 ft. wide, measure depth at 20 equal intervals across the entire width						
	Point	Depth		Point	Depth	Depth Conversion Chart			
		10 ^{ths} Feet			10 ^{ths} Feet	Ft/In	10 ^{ths} Ft	Ft/In	10 ^{ths} Ft
	<u>1</u>	<u>0</u>		<u>11</u>	<u>0.6</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>0.5</u>	<u>1-1/2</u>	<u>0.1</u>	<u>7-7^{3/8}</u>	<u>0.6</u>
	<u>3</u>	<u>1.0</u>		<u>13</u>	<u>0.4</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>1.2</u>		<u>14</u>	<u>0.3</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>X</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>1.8</u>	<u>16</u>		<u>X</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>1.3</u>	<u>17</u>		<u>X</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>1.2</u>	<u>18</u>	<u>X</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>0.8</u>	<u>19</u>	<u>X</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>0.75</u>	<u>20</u>	<u>X</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>10.66</u>
								<u>2</u>	<u>10.44</u>
								<u>3</u>	<u>8.56</u>
								<u>4</u>	<u>21.16</u>
								Velocity Correction Factor	
								Circle the bottom type	
								<u>Rough</u>	<u>0.8</u>
								<u>Smooth</u>	<u>0.9</u>

Monitoring Equipment Calibration	DO Meter: Yes <u>X</u> No
	pH Meter: Yes <u> </u> No <u> </u>
	ECTestr Yes <u> </u> No <u> </u>

Equipment Cleaning and Disinfection	Boots/Waders/Footwear and other monitoring materials cleaned and disinfected? Yes <u> </u> No <u> </u>
-------------------------------------	--

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

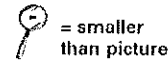
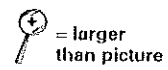


Water Snipe Fly Larva

No. of group 1 animals circled:

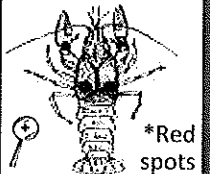


Relative Size Key:

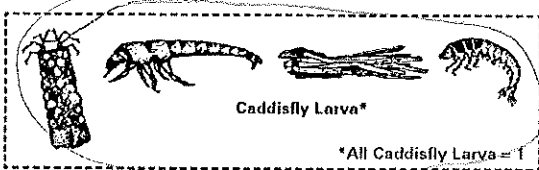


Key Aquatic Invasive Species (AIS)
 Circle AIS shown below if you think you found any:

Rusty Crayfish



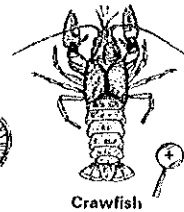
Group 2: These are semi-sensitive to pollutants. Circle each animal found.



Dragonfly Larva

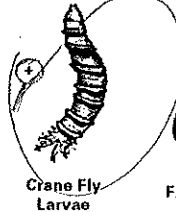


Water Penny

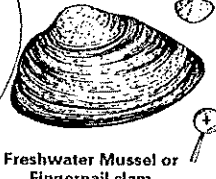


Crawfish

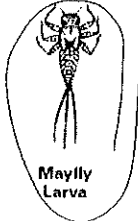
No. of group 2 animals circled:



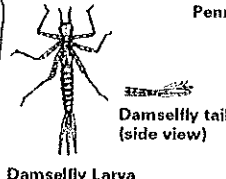
Crane Fly Larvae



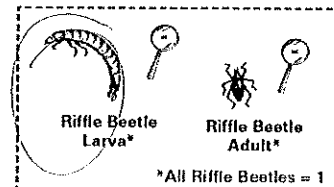
Freshwater Mussel or Fingernail clam



Mayfly Larva



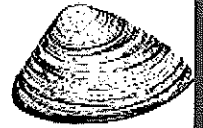
Damselfly Larva



Riffle Beetle Larva*

Riffle Beetle Adult*

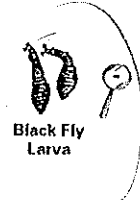
Asian Clam



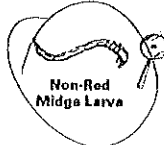
New Zealand Mudsnail



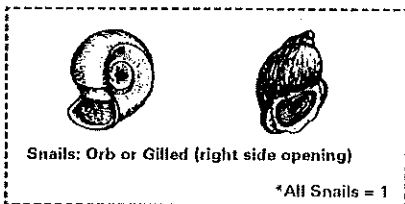
Group 3: These are semi-tolerant of pollutants. Circle each animal found.



Black Fly Larva



Non-Red Midge Larva



Snails: Orb or Gilled (right side opening)



Amphipod or Scud

No. of group 3 animals circled:



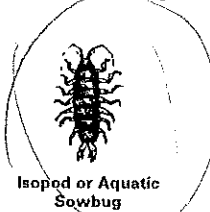
Faucet Snail



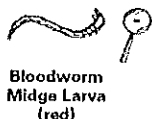
Group 4: These are tolerant of pollutants. Circle each animal found.



Pouch Snail (left side opening)



Isoped or Aquatic Sowbug



Bloodworm Midge Larva (red)



Leech



Tubifex Worm

No. of group 4 animals circled:



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

Date data entered into SWIMS? 5/16/23

Data Entry Volunteer Initials: CAH