Water Action Volunteers Stream Monitoring Data Recording Form - Version 2015.1.4

Station Info

WAV Station Number*: 643032 Date*: 7 / 31 /2023 Time*: 1:30 AM or **PM**

WAV Station Name*: WI Riv USH 45 N Land O Lakes

Team Member Name(s)*: C Scholl, P Sheehan

*Denotes required field

Weather

Weather: (circle one)	Sunny	**Partly Sunny**	Cloudy	Rain	Thunderstorm	Snow	Sampling Date: (circle one)	**Primary** Safety Other
Weather over past two days:								
Current Stream Condition: (circle one)	**Normal**	Flooding	Dry	Stagnant	Frozen	Other		
Observations:								

WAV Monitoring Parameters

Parameters Tested	Your Results					Units
Air Temperature						°C
Water Temperature	20.6					°C
Dissolved Oxygen (D.O.) Sampling Method	Circle One:	Hach Kit	LaMotte Kit	**YSI 550A Meter**	Other:	-
D.O. mg/L	No. of Titration Drops:	No. of Plastic Measuring Tubes:	Dissolved Oxygen Content: 9.1			mg/L
D.O. % Saturation	~~102~~ 101					%
pH						-
Transparency	Tube Length (circle one)		Trial #1	Trial #2	Average	-
	60 cm 100 cm **120 cm**		120	120	120	cm
Specific Conductance	ECTestr reading: ms/cm or µS/cm (*circle units displayed*)					
Chloride Sample	Collected? Y____N____Point/Outfall Number:					
Total Phosphorus Sample	Collected? Y____N____Point/Outfall Number:					

1.3

Streamflow Monitoring

Streamflow was monitored this sampling event (select one): Yes ✓ No____

If No, why not?

Length Assessed:________ft

Stream Width*: 53.7 ft

*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

Stream Depth Measurements

Point	Depth 10ths Feet	Point	Depth 10ths Feet
1	0	11	
2		12	
3		13	
4		14	
5		15	
6		16	
7		17	
8		18	
9		19	
10		20	

Depth Conversion Chart

Ft/In	10ths Ft	Ft/In	10ths Ft
3/8-7/8	0.05	6 3/8-6 7/8	0.55
1-1 1/2	0.1	7-7 3/8	0.6
1 5/8-2	0.15	7 1/2-8	0.65
2 1/8-2 5/8	0.2	8 1/8-8 5/8	0.7
2 3/4-3 1/4	0.25	8 3/4-9 1/4	0.75
3 3/8-3 7/8	0.3	9 3/8-9 7/8	0.8
4-4 3/8	0.35	10-10 3/8	0.85
4 1/2-5	0.4	10 1/2-11	0.9
5 1/8-5 5/8	0.45	11 1/8-11 5/8	0.95
5 3/4-6 1/4	0.5	11 3/4-12	1.0

Velocity Float Trials

Trial Number	Time (Seconds)
1	0.8
2	~~0.8~~
3	~~0.3~~
4	~~0.6~~

Velocity Correction Factor

Circle the bottom type

Rough	0.8
Smooth	**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____

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

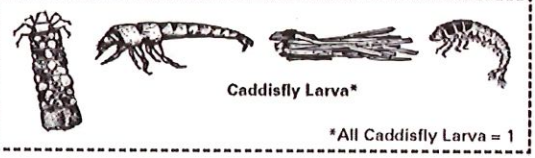

Alderfly Larva


Water Snipe Fly Larva

No. of group 1 animals circled: ☐

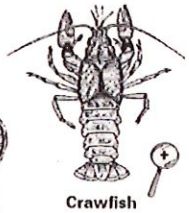
Relative Size Key:
= larger than picture
= smaller than picture

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


Caddisfly Larva*
*All Caddisfly Larva = 1


Dragonfly Larva


Water Penny

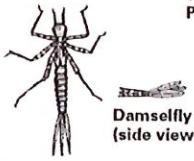

Crawfish

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: ☐

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

Rusty Crayfish


*Red spots

Asian Clam

New Zealand Mudsnail

Faucet Snail

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

Date data entered into SWIMS?____/____/_____ Data Entry Volunteer Initials: _____