Water Action Volunteers Stream Monitoring Data Recording Form - Version 2015.1.4

Station Info

WAV Station Number*: 643032 Date*: 7 / 3 / 23 Time*: 11:00 AM PM

WAV Station Name*: WI R. 2 USH 45N Land O' Lakes

Team Member Name(s)*: C. Scholl

Weather

Weather: (choose one) Sunny ✓ Partly Sunny ○ Cloudy ○ Rain ○ Snow ○ Thunderstorms ○

Sampling Date: (choose one) Primary ✓ Safety ○ Other ○

Weather over past two days: Sunny & Clear

Current Stream Condition: (choose one) Normal ✓ Flooding ○ Dry ○ Stagnant ○ Frozen ○ Other ☐

Observations: Calm & steady current

WAV Monitoring Parameters

Parameters Tested	Your Results	Units
Air Temperature		°C
Water Temperature	23.1	°C
Dissolved Oxygen (D.O.) Sampling Method	Choose One: Hatch Kit ○ LaMotte Kit ○ YSI 550A Meter ✓ Other:	
D.O. m/L	No. of Titration Drops: ☐ No. of Plastic Measuring Tubes: ☐ Dissolved Oxygen Content: 8.1	mg/L
D.O. % Saturation	95	%
pH	—	-
Transparency	Tube Length (select one): 60 cm ○ 100 cm ○ 120 cm ✓ — Trial #1: 120 — Trial #2: 120 — Average: 120	- / cm
Specific Conductance	ECTestr reading: ☐ (choose units displayed) ms/cm ○ µS/cm ○	
Chloride Sample	Collected? Y ○ N ✓ Point/Outfall Number: ☐	
Total Phosphorus Sample	Collected? Y ○ N ✓ Point/Outfall Number: ☐	

WAV Monitoring Parameters

Was streamflow monitored this sampling event? Yes ✓ No ○

If No, why not? ☐

Length Assessed ☐ ft

Stream Width*: 44 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	1.3
2	.41	12	1.3
3	.42	13	1.32
4	.7	14	1.2
5	.73	15	.97
6	.9	16	.7
7	.83	17	.5
8	.97	18	.4
9	1.32	19	.41
10	1.1	20	.3

Depth Conversion Chart

Ft/in	10ths Ft	Ft/in	10ths Ft
⅜-⅞	0.05	6⅜-6⅞	0.55
1-1½	0.1	7-7⅜	0.6
1⅜-2	0.15	7½-8	0.65
2⅛-2⅝	0.2	8⅛-8⅝	0.7
2¾-3¼	0.25	8¾-9¼	0.75
3⅜-3⅞	0.3	9⅜-9⅞	0.8
4-4⅜	0.35	10-10⅜	0.85
4½-5	0.4	10½-11	0.9
5⅛-5⅝	0.45	11⅛-11⅝	0.95
5¾-6¼	0.5	11¾-12	1.0

Velocity Correction Factor

Trial Number	Time (Seconds)
1	.4
2	.6
3	.9
4	.9

Velocity Float Trials

Choose the bottom type:

Rough	0.8	✓
Smooth	0.9	○

Monitoring Equipment Calibration

D.O. Meter:	Yes ✓	No ○
pH Meter:	Yes ○	No ○
ECTestr:	Yes ○	No ○

Equipment Cleaning and Distribution

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 (choose one): Deployment ○ Retrieval ○ Monthly Check ○

Deployment/Retrieval Time: _____ AM PM **Monthly Check - thermistor submersed** Yes ○ No ○

Describe location of thermistor if you developed it today, or action(s) taken if thermister 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. Select each animal found.


Stonefly Larva ☐


Dobsonfly Larva ☐

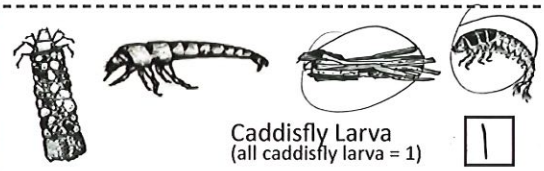

Alderfly Larva ☐

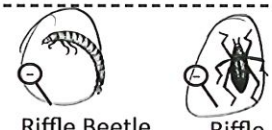

Water Snipe Fly Larva ☐

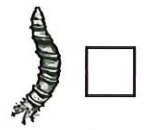
No. of group 1 animals circled: 0

Relative Size Key
⊕ = larger than picture
⊖ = smaller than picture

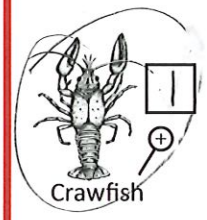
Group 2: These are semi-sensitive to pollutants. Select each animal found.


Caddisfly Larva (all caddisfly larva = 1) 1


Riffle Beetle Larva; Riffle Beetle 1 *All Riffle beetles = 1

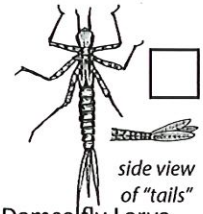

Crane Fly Larva ☐

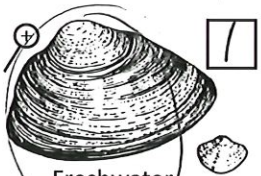

Water Penny ☐


Crawfish 1


Dragonfly Larva 1

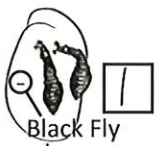

Mayfly Larva 1

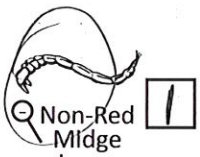

side view of "tails" Damselfly Larva ☐

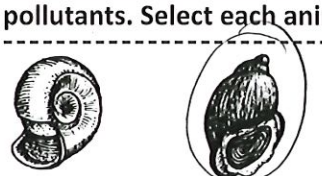

Freshwater Mussel or Fingernail Clam 1

No. of group 2 animals circled: 6

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


Black Fly Larva 1

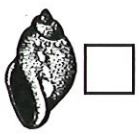

Non-Red Midge Larva 1


Snails: Orb or Gilled (right side opening) 1 *All Snails = 1

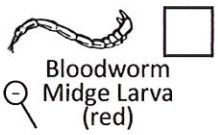

Amphipod or Scud ☐

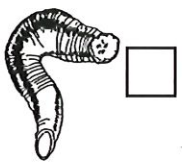
No. of group 3 animals circled: 3

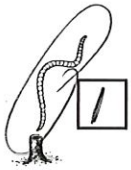
Group 4: These are tolerant of pollutants. Select each animal found.


Pouch Snail ☐


Aquatic Sowbug or Isopod ☐

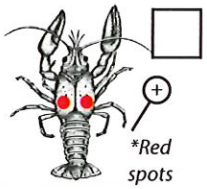

Bloodworm Midge Larva (red) ☐


Leech ☐


Tubifex Worm 1

No. of group 4 animals circled: 1

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? 7 / 5 / 23 **Data Entry Volunteer Initials:** CJS

Download and print data sheets from www.wateractionvolunteers.org.
For more information, call (608) 331-0173, or email wav@extension.wisc.edu.

WAV WATER ACTION VOLUNTEERS