Water Action Volunteers Stream Monitoring Datasheet — Large Text Version

Station Info

WAV Station Number*: _____ Date*: ___/___/___ Time*: _____ AM PM

WAV Station Name*: _____

Team Member Name(s)*: _____

Weather

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

Weather over past two days: _____

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

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

Observations: _____

WAV Monitoring Parameters

Parameters Tested	Your Results	Units
Air Temperature		**˚C**
Water Temperature		**˚C**
Dissolved Oxygen (D.O.) Sampling Method	**Choose 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: _____	**mg/L**
D.O. % Saturation		**%**
pH		**-**
Transparency	**Tube Length (select one)** / **Trial #1** / **Trial #2** / **Average**	**-**
	60 cm ○ 100 cm ○ 120 cm ○ / _____ / _____ / _____	**cm**
Specific Conductance	ECTestr reading: _____ (choose units displayed) ms/cm ○ µS/cm ○	
Chloride Sample	Collected? Yes ○ No ○ Point/Outfall Number: _____	
Total Phosphorus Sample	Collected? Yes ○ No ○ Point/Outfall Number: _____	

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For more information, call (608) 331-0173, or email wav@extension.wisc.edu.

WAV Monitoring Parameters

Was streamflow monitored this sampling event? Yes ◯ No ◯

If No, why not? _____

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
⅜-⅞	0.05	6⅜-6⅞	0.55
1-1½	0.1	7-7⅜	0.6
1⅝-2	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

Length Assessed _____ ft

Stream Width*: _____ 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.

Velocity Float Trials

Trial Number	Time (Seconds)
1	
2	
3	
4	

Velocity Correction Factor

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 Disinfection

Boots/Waders/Footwear and other monitoring materials cleaned and disinfected? Yes ◯ No ◯

Expected Ranges for Parameters

H2O Temperature:	12-30 ˚C
Dissolved Oxygen:	5-10 mg/L
D.O % Saturation:	80-120%
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 deployed it today, or action(s) taken if thermister was not submersed:

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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 ☐

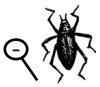
Relative Size Key
⊕ = larger than picture
⊖ = smaller than picture

No. of group 1 animals circled: ☐

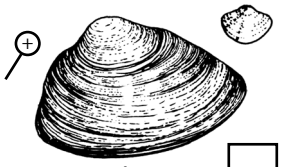
Group 2: These are semi-sensitive to pollutants. Select each animal found.

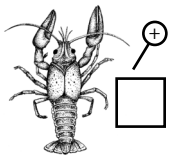

Caddisfly Larva (all caddisfly larva = 1) ☐


Riffle Beetle Larva


Riffle Beetle

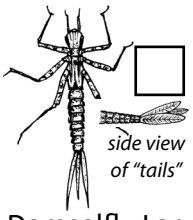
*All Riffle beetles = 1 ☐


Freshwater Mussel or Fingernail Clam ☐


Crayfish ☐


Dragonfly Larva ☐


Mayfly Larva ☐



Damselfly Larva ☐


Crane Fly Larva ☐

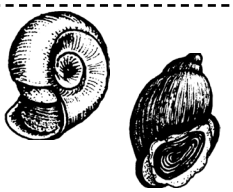

Water Penny ☐

No. of group 2 animals circled: ☐

Group 3: These are semi-tolerant of pollutants. Select 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: ☐

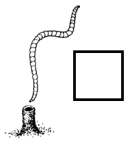
Group 4: These are tolerant of pollutants. Select each animal found.


Pouch Snail ☐


Aquatic Sowbug or Isopod ☐

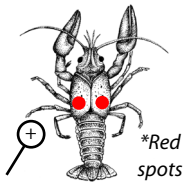

Bloodworm Midge Larva (red) ☐


Leech ☐


Tubifex Worm ☐

No. of group 4 animals circled: ☐

Key Aquatic Invasive Species (AIS)



Rusty Crayfish ☐


Asian Clam ☐


New Zealand Mudsnail ☐


Faucet Snail ☐

If any AIS are found, collect a sample and detailed photos and report to DNR or WAV.

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

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