# Water Action Volunteers Stream Monitoring Data Sheet — Large Text Version

## Station Info

WAV Station Number*: _____     Date*: ____/____/____     Time*: _____

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: Primary   Safety   Other (choose one)

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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## WAV Monitoring Parameters

**Was streamflow monitored this sampling event?** Yes     No

**If No, why not?** _____

**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.

### 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 |

### 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: | 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:** _____ | **Monthly Check - thermistor submersed**   Yes   No

**Describe location of thermistor if you <u>deployed it today,</u> or action(s) taken if <u>thermister was not submersed</u>:**

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Download and print data sheets from www.wateractionvolunteers.org.

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

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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.**

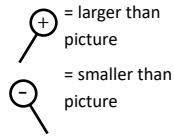Stonefly Larva    Dobsonfly Larva    Alderfly Larva    Water Snipe Fly Larva

**Relative Size Key**

⊕ = larger than picture

⊖ = smaller than picture

**No. of group 1 animals circled:**

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

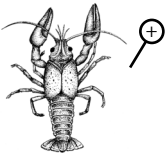Caddisfly Larva (all caddisfly larva = 1)

Riffle Beetle Larva    Riffle Beetle    *All Riffle beetles = 1
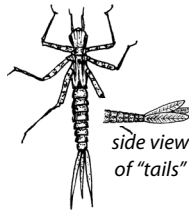
Freshwater Mussel or Fingernail Clam

Crawfish    Dragonfly Larva    Mayfly Larva    Damselfly Larva    *side view of "tails"*    Crane Fly Larva    Water Penny

**No. of group 2 animals circled:**

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**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:**

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

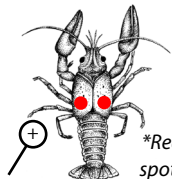Pouch Snail    Aquatic Sowbug or Isopod    Bloodworm Midge Larva (red)    Leech    Tubifex Worm

**No. of group 4 animals circled:**

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**Key Aquatic Invasive Species (AIS)**

Rusty Crayfish *Red spots    Asian Clam    New Zealand Mudsnail    Faucet Snail

**If any AIS are found, collect voucher or photo and report to DNR or WAV Coordinator**

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

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