

Data Collectors: <u>Diane Danton + Jeanette Wendler</u>			Date: <u>8/15/13</u>
Lake Name: <u>Star Lake</u>		County: <u>Vilas</u>	WBIC: <u>1593100</u>
Start Time: <u>12:00</u>	End Time: <u>4:30p</u>	Secchi Depth: _____ feet or meters (circle one)	Conductivity: _____

Look for the following species: Purple loosestrife, Phragmites, flowering rush, Hydrilla, Brazilian waterweed, Eurasian water-milfoil, curly-leaf pondweed, yellow floating heart, zebra mussel, quagga mussel, Chinese mystery snail, banded mystery snail, faucet snail, New Zealand mud snail. List any other AIS found. If sites not snorkeled, take 50 rake and D-net samples during meander survey. Record how many of the 50 samples have each AIS found in the "Count" spaces below.

Did you snorkel the search sites? Y/N  If not, why? (circle one) stained water, turbid water, blue-green bloom, chemical treatment, other \_\_\_\_\_

Rake/D-net counts: Species 1 \_\_\_\_\_ Count \_\_\_\_\_; Species 2 \_\_\_\_\_ Count \_\_\_\_\_; Species 3 \_\_\_\_\_ Count \_\_\_\_\_; Species 4 \_\_\_\_\_ Count \_\_\_\_\_; Species 5 \_\_\_\_\_ Count \_\_\_\_\_; Species 6 \_\_\_\_\_ Count \_\_\_\_\_

STEP 1: Record locations of sites (in decimal degrees) using a GPS unit (datum WGS84). List AIS found at each site or record none. Collect a sample of any suspected AIS found.

Boat Landing# 1D Species \_\_\_\_\_ Latitude 46.03210° N Longitude 0.889, 47449° W Density (1-5) \_\_\_\_\_

Boat Landing# \_\_\_\_\_ Species \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Density (1-5) \_\_\_\_\_

Search Site# 1D Species BBM, PL Latitude 46.03441° N Longitude 089.46826° W Density (1-5) 2 + BMS, 1, PL

Search Site# 1L Species \_\_\_\_\_ Latitude 46.03452° N Longitude 0.89, 46740° W Density (1-5) 1

Yes signs Search Site# BL2 Species PL, BMS, Ruckys Latitude 46.03211 Longitude 0.89, 47447 Density (1-5) 2, 2, 2

Search Site# 2D Species (beach) " , RT Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Density (1-5) 2, 2, 2

Search Site# \_\_\_\_\_ Species \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Density (1-5) \_\_\_\_\_

Search Site# \_\_\_\_\_ Species \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Density (1-5) \_\_\_\_\_

Meander Survey# \_\_\_\_\_ Species \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Density (1-5) \_\_\_\_\_

Meander Survey# \_\_\_\_\_ Species \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Density (1-5) \_\_\_\_\_

Meander Survey# \_\_\_\_\_ Species \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Density (1-5) \_\_\_\_\_

Step 2: Label first five specimens collected with species, collector, date, lake name, WBIC and Location # Send your specimens to an expert for verification. Instructions on how to voucher specimens and a list of statewide taxonomy experts can be found at: <http://dnr.wi.gov/invasives/aquatic/whattodo/staff/>

**Step 3:** Collect Waterflea Tows from three sites around the lake in water deeper than 15 feet (if possible).

Method used: \_\_\_\_\_ horizontal tows (near surface) or \_\_\_\_\_ oblique tows (near bottom to surface if greater than 15 feet)

Diameter of plankton net mouth (circle one) 30cm 50cm other \_\_\_\_\_

Depth sampled: Tow 1 \_\_\_\_\_ ft Tow 2 \_\_\_\_\_ ft Tow 3 \_\_\_\_\_ ft

Has ethanol been added? Y/N Have samples been consolidated into one bottle? Y/N

**Step 4:** Collect Veliger Tows from three sites in 5-10 feet of water (within a meter of the bottom).

**Guidelines:** If Secchi depth is >4m take two 2m deep samples; if Secchi is between 2-4m take one 2m deep sample; if Secchi is <2m take one 1m tow.

Diameter of plankton net mouth (circle one) 30cm 50cm other \_\_\_\_\_

Has ethanol been added? Y/N Have samples been consolidated into one bottle? Y/N

**Step 5:** Data was entered into SWIMS on \_\_\_\_\_ by \_\_\_\_\_  
 Date Name

**Notes:**

**Density Ratings**

- 1 – A few plants or invertebrates
- 2 – One or a few plant beds or colonies of invertebrates
- 3 – Many small beds or scattered plants or colonies of invertebrates
- 4 – Dense plant, snail or mussel growth in a whole bay or portion of the lake
- 5 – Dense plant, snail or mussel growth covering most shallow areas

**General guidance on areas to search for the 10 minute quick snorkel search sites:**

- Check rocks for zebra/quagga mussels, faucet snails and New Zealand mudsnails.
- Check around small backyard boat launches.
- Check near creek inlets (especially if AIS are found upstream).
- Check the stems of emergent vegetation for climbing faucet snails.
- Check areas downwind of large boat landings.



\* For lakes/sites not snorkeled, substitute:

Boat landing site - 15 rake throws and 15 D-net samples OR 30 minutes, whichever comes first

Targeted site - 5 rake throws and 5 D-net samples OR 10 minutes, whichever comes first

50 meander sites - 10 rake throws and 10 D-net samples during meander survey between sampling sites for a total of 50 meander survey sites

† If lake/site was not snorkeled, indicate why: stained water, turbid water, blue-green bloom, chemical treatment, other (please describe).

‡ Density Ratings

1 – A few plants or invertebrates

2 – One or a few plant beds or colonies of invertebrates

3 – Many small beds or scattered plants or colonies of invertebrates

4 – Dense plant, snail or mussel growth in a whole bay or portion of the lake

5 – Dense plant, snail or mussel growth covering most shallow areas

**Step 2:** Collect Waterflea Tows from 3 sites: the deep hole (DH) and 2 other sites in water deeper than 15 feet (if possible). Submit sample and Water Flea To Monitoring Reprt form to Science Services.

Site	Depth sampled	Method (hor, obliq, vert)	Net diameter (30 or 50 cm)	Ethanol added (Y or N)	Samples combined (Y or N)	Sample sent to, date
	45 ft	obliq	"	Y	Y	
	80 ft	obliq	"	Y	Y	
	45 ft	obliq	"	Y	Y	

**Step 3:** Collect Veliger Tows from 3 sites; the deep hole (DH), outlet site (OS), and or downwind site (DS) in water depth of about 4 meters (if possible). Submit sample and Mussel Veliger Tow Monitoring Report form to Science Service.

Site	Depth sampled	Net diameter (30 or 50 cm)	Ethanol added (Y or N)	Samples combined (Y or N)	Sample sent to, date

**Step 4:** Were plant voucher specimens submitted? Yes No (circle) If yes, where? (circle) Freckmann Herbarium, Other \_\_\_\_\_

**Step 5:** Were snail voucher specimens submitted (separate into Chinese, banded, all others)? Yes No (circle) If yes, where? (circle) UW La Crosse, or Other \_\_\_\_\_

**Step 6:** Data was entered into SWIMS on 8/3/13 by DKD

**Step 7:** Data was proofed on 8/23/13 by DKD

**Notes:**