

Data Collectors <i>John P., Erin W.</i>			Date <i>8/27/12</i>	
Lake Name <i>Halfmoon Lake</i>		County <i>Lincoln</i>		WBIC <i>988000</i>
Start Time <i>10:15</i>	End Time <i>1:00pm</i>	Secchi Depth <i>2.5</i>	feet or meters (circle one) <u>feet</u>	
			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# <u>1</u>	Species <u>No AIS</u>	Latitude <u>45.526427</u>	Longitude <u>-89.738227</u>	Density (1-5) _____
Boat Landing# _____	Species _____	Latitude _____	Longitude _____	Density (1-5) _____
Search Site# <u>1</u>	Species <u>No AIS</u>	Latitude <u>45.52512</u>	Longitude <u>-89.73382</u>	Density (1-5) _____
Search Site# <u>2</u>	Species <u>No AIS</u>	Latitude <u>45.52235</u>	Longitude <u>-89.72928</u>	Density (1-5) _____
Search Site# <u>3</u>	Species <u>No AIS</u>	Latitude <u>45.52030</u>	Longitude <u>-89.72438</u>	Density (1-5) _____
Search Site# <u>4</u>	Species <u>No AIS</u>	Latitude <u>45.52408</u>	Longitude <u>-89.72576</u>	Density (1-5) _____
Search Site# <u>5</u>	Species <u>No AIS</u>	Latitude <u>45.52823</u>	Longitude <u>-89.73199</u>	Density (1-5) _____
Search Site# _____	Species _____	Latitude _____	Longitude _____	Density (1-5) _____
Meander Survey# <u>1</u>	Species <u>pink water lily</u>	Latitude <u>45.52552</u>	Longitude <u>-89.73307</u>	Density (1-5) <u>1</u>
Meander Survey# <u>2</u>	Species <u>POLYPODUS GRASS</u>	Latitude <u>45.51993</u>	Longitude <u>-89.72953</u>	Density (1-5) <u>1</u>
Meander Survey# _____	Species _____	Latitude _____	Longitude _____	Density (1-5) _____

Not entered in survey →

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 4 ft Tow 2 4 ft Tow 3 4 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). *Not suitable*

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 8/30/12 by Erin Vannie-Vollrath
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.



988000 Halfmoon Lake