

Lake Name Dowling Lake	County Douglas	WBIC 2858300	AIS sign? Y N	Secchi (ft or m) N/A	Conductivity (ZM tow if $\geq 99$ umhos/cm) N/A
Date(s) 8-6-14	Data collectors FMW ADJ	Start time (nearest 15 min) 11:00 am	End time (nearest 15 min) 2:00 PM	Total collector time (hrs x # collectors) 6 hrs	

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, didymo, water flea, and any other AIS found.

STEP 1: Record locations of sampling sites (in decimal degrees). Sampling sites include all public boat landings (BL), 5 targeted sites (TS) and the meander survey sites (MS). List AIS found at each site or record none. Collect a sample of any new AIS found. Collect five new invasive plant specimens, 20 Dreissenids, and 30 of each snail species and label with species, collector, date, lake name, WBIC and sampling site.

Site	Latitude	Longitude	Snorkel (Y or N)	If N snorkel, indicate why	Species, density 1-5 <sup>+</sup>
MS1	N 46° 28.508	W 92° 02.411	N	Highly stained	(1) yellow iris (sample 1) (3) Purple Loosestrife (PL)
MS2	N 46° 28.493	W 92° 02.410	N	"	(2) PL
MS3	N 46° 28.473	W 92° 02.406	N	"	(2) yellow iris
MS4	N 46° 28.430	W 92° 02.396	N	"	(2) yellow iris
MS5	N 46° 28.372	W 92° 02.393	N	"	(2) yellow iris
TS1	N 46° 28.318	W 92° 02.441	N	"	(1) yellow iris, <sup>chinese mystery</sup> snail (1)
MS6	N 46° 28.283	W 92° 02.475	N	"	(2) yellow iris
MS7	N 46° 28.267	W 92° 02.503	N	"	(2) yellow iris
MS8	N 46° 28.248	W 92° 02.544	N	"	(1) PL (1) yellow iris
MS9	N 46° 28.192	W 92° 02.633	N	"	(1) yellow iris
MS10	N 46 28.190	W 92° 02.660	N	"	(2) yellow iris
MS11	N 46.28.171	W 92° 02.730	N	"	(1) yellow iris (sample 2)
MS12	N 46.28.173	W 92° 02.759	N	"	(1) yellow iris (1) PL
MS13	N 46.28.223	W 92° 02.899	N	"	(3) yellow iri > (2) PL
TS2	N 46.28.351	W 92° 02.943	N	"	None

Lake Name <b>Dowling</b>	County	WBIC	Date(s)	AIS sign? Y N	Secchi (ft or m)	Conductivity (ZM tow if $\geq 99$ umhos/cm)
Data collectors		Lead Monitor phone and email	Start time (~ 15 min)	End time (~ 15 min) <b>2:00 PM</b>	Total collector time (hrs x # collectors)	

**Look for the following species:** Purple loosestrife, Phragmites, flowering rush, Japanese knotweed, Yellow iris, Eurasian water-milfoil, curly-leaf pondweed, Hydrilla, Brazilian waterweed, yellow floating heart, European frog-bit, yellow floating heart, water chestnut, Brazilian waterweed, fanwort, parrot feather, water hyacinth, water lettuce, zebra mussel, quagga mussel, water flea, Chinese mystery snail, banded mystery snail, faucet snail, New Zealand mud snail, Asian clam, red swamp crayfish, rusty crayfish, didymo, and any other AIS found.

**STEP 1:** Record locations of sampling sites (in decimal degrees). Sampling sites include all public boat landings (BL), 5 target sites (TS) and the meander survey sites (MS). List AIS found at each site or record none. Collect a sample of any new AIS found. Collect five new invasive plant specimens, 20 Dreissenids, and 3 of each snail species and include internal and external labels with WBIC, lake name, county, sample date, sample type (snails, spiny water flea or zebra mussel) and collector. Legibility is appreciated. If needed, preserve with adequate ethanol.

Site	Latitude	Longitude	Snorkel (Y or N*)	If N snorkel, indicate why†	Species, density 1-5‡
MS14	N 46° 28.391	W 92° 02.943	N	"	(3) yellow iris
TS3	N 46° 28.565	W 92° 02.960	N	"	(1) PL
MS15	N 46° 28.661	W 92° 02.882	N	<del>Blue</del> Algae	(3) yellow iris
MS16	N 46° 28.681	W 92° 02.782	N	Highly stained	(3) yellow iris (1) PL
MS17	N 46° 28.691	W 92° 02.708	N	"	(2) PL
MS18	N 46° 28.697	W 92° 02.674	N	"	(3) yellow iris (1) PL
MS19	N 46° 28.695	W 92° 02.578	N	"	(1) PL (1) yellow iris
<del>MS</del> TS4	N 46° 28.698	W 92° 02.566	N	"	(4) yellow iris
MS20	N 46° 28.682	W 92° 02.535	N	"	(4) yellow iris
TS5	N 46° 28.602	W 92° 02.439	N	"	(3) yellow iris (1) PL
MS21	N 46° 28.521	W 92° 02.475	N	"	(1) PL

Lake Name <i>Dowling</i>	County	WBIC	Date(s)	AIS sign? Y N	Secchi (ft or m)	Conductivity (ZM tow if $\geq 99$ umhos/cm)
Data collectors		Lead Monitor phone and email	Start time (~ 15 min)	End time (~ 15 min) <i>2:00 pm</i>	Total collector time (hrs x # collectors)	

**Look for the following species:** Purple loosestrife, Phragmites, flowering rush, Japanese knotweed, Yellow iris, Eurasian water-milfoil, curly-leaf pondweed, Hydrilla, Brazilian waterweed, yellow floating heart, European frog-bit, yellow floating heart, water chestnut, Brazilian waterweed, fanwort, parrot feather, water hyacinth, water lettuce, zebra mussel, quagga mussel, water flea, Chinese mystery snail, banded mystery snail, faucet snail, New Zealand mud snail, Asian clam, red swamp crayfish, rusty crayfish, didymo, and any other AIS found.

**STEP 1:** Record locations of sampling sites (in decimal degrees). Sampling sites include all public boat landings (BL), 5 target sites (TS) and the meander survey sites (MS). List AIS found at each site or record none. Collect a sample of any new AIS found. Collect five new invasive plant specimens, 20 Dreissenids, and 3 of each snail species and include internal and external labels with WBIC, lake name, county, sample date, sample type (snails, spiny water flea or zebra mussel) and collector. Legibility is appreciated. If needed, preserve with adequate ethanol.

Site	Latitude	Longitude	Snorkel (Y or N*)	If N snorkel, indicate why <sup>†</sup>	Species, density 1-5 <sup>‡</sup>
MS22	N 46° 28.517	W 92° 02.433	N	"	(3) PL (1) yellow iris
MS23	N 46° 28.517	W 92° 02.407	N	"	(2) PL (1) yellow iris
BL	N 46° 28.528	W 92° 02.390	N	"	(3) PL (3) yellow iris
MS24	N 46° 28.187	W 92° 02.654	N	"	Pink water lily
MS25	N 46° 28.523	W 92° 02.777	N	"	(3) PL
MS26	N 46° 28.524	T 2° 02.731	N	"	(3) PL *

\* PL peppers shoreline of island

Dowling

\*For lakes/sites not snorkeled, substitute:

Boat landing site – Examine rake throws and D-net samples for 30 minutes.

Targeted site – Examine rake throws and D-net samples for 10 minutes.

Meander – Examine 50 rake throws/D-net samples during meander survey.

†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 the deep hole (DH). Decant s water and preserve the sample. Submit the sample, this data form and the Water Flea Tow Monitoring Report (3200-128) to DNR Science Services.

Site	Net ring depth	Method (hor, obliq, vert)	Net diameter (30 or 50 cm)	Ethanol added (Y or N)	Samples combined (Y or N)	Sample sent to, date
1	4ft	obliq	<del>250 cm</del>	Y	Y	
2	4ft	"	"	Y	Y	
3	5ft	"	"	Y	Y	

Step 3: Collect Veliger Tows from 3 sites; the deep hole (DH) and two other deep areas along the downwind side of the lake. Submit the sample, this data form and the Mussel Veliger Tow Monitoring Report (3200-135) to DNR Science Service. (Not suitable)

Site	Net ring depth	Net diameter (30 or 50 cm)	Ethanol added (Y or N)	Samples combined (Y or N)	Sample sent to, date
	N/A				

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

Step 5: Were snail voucher specimens submitted for all records (circle)? Yes  No If yes, where? (circle) UW-La Crosse or other \_\_\_\_\_

Step 6: Data was entered into SWIMS on 10/15/14 by Farrah Wirtz

Step 7: Data was proofed on \_\_\_\_\_ by \_\_\_\_\_

Notes: x FMW - misentry