AIS Early Detection Monitoring Data Form

Form 3200-xxx (R 6/2013)

Lake Name	County	WBIC	Date(s)	AIS sign?	Secchi (ft or m)	Conductivity (ZM tow if ≥99 umhos/cm)
Upper Lake St. Croix	Douglas	2747300	8-13-14 8-12-14	(Y) N	1.25m	107

Data collectors	Lead Monitor phone and email	Start time (~ 15 min)	End time (~ 15 min)	Total collector time (hrs x # collectors)
Jason Hayes IMW Farrah M. Wirtz		8:45am 8:10am	1:00 pm 12:30 PM	4.25 + 4.25 = 8.50

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‡
(MS1) MS1	N46.35297	W91.81236	N		2 yellow iris 2PL
MS2	N46.35389	W91.81207	N		1 PL 2 YI
MS3	N46.35844	W91.80894	N		2 PL
MS4	N46.35921	W91.80920	N		5 PL
BL1	N46.35881	W91.80901	Y		2 YI 5 PL 5 BMS
MS5	N46.36235	W91.80721	N		3 PL 3 YI
MS6	N46.36619	W91.80540	N		3 PL 1 YI
TS1	N46.36895	W91.80291	Y		1 PL 5 BMS
MS6	N46.36961	W91.80167	N		2 PL 2 YI
MS7	N46.37135	W91.80077	N		1 PL 2 YI
BL2	N46.37181	W91.80045	Y		5 BMS 3 YI 1 PL

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Form 3200-xxx (R 6/2013)

***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	7 ft	obliq.	50 cm	Y	Y	
2	12 ft	"	"	Y	"	
3	12 ft	"	"	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.

Site	Net ring depth	Net diameter (30 or 50 cm)	Ethanol added (Y or N)	Samples combined (Y or N)	Sample sent to, date
1	1m	50 cm	Y	Y	
2	1m	50 cm	Y	Y	
3	1m	50 cm	Y	Y	

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 _____ by _____

Step 7: Data was proofed on _____ by _____

Notes:

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Lake Name	County	WBIC	Date(s)	AIS sign?	Secchi (ft or m)	Conductivity (ZM tow if ≥99 umhos/cm)
ULSC	Douglas	2747300	8-12-14	(Y) N	1.25m	107

Data collectors	Lead Monitor phone and email	Start time (~ 15 min)	End time (~ 15 min)	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[‡]
MS8	N46.37364	W91.79764	N		2 YI 1 PL
MS9	N46.37442	W91.79677	N		3 YI 2 PL
(MS2) *MS10	N46.37524	W91.79639	N		*2 Japanese knotweed (2 PL 1 YI)
MS11	N46.37701	W91.79438	N		2 PL
MS12	N46.37795	W91.79369	N		1 PL 2 YI
*TS2	N46.37798	W91.79235	Y		3 CMS 3 BMS *2 PL
MS13	N46.37830	W91.79038	N		4 PL
MS14	N46.37933	W91.78654	N		2 YI
*BL3	N46.38092	W91.78450	Y		1 PL 5 BMS 1 CMS
MS15	N46.38144	W91.78271	N		3 YI
MS16	N46.38222	W91.78124	N		3 PL 4 YI
MS17	N46.38225	W91.78120	N		5 PL 3 YI → st. croix x creek inlet (beetles

* on private property, ~35 ft back from shoreline
* PL 20ft up inlet (Catlin)

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Form 3200-xxx (R 6/2013)

Lake Name	County	WBIC	Date(s)	AIS sign? Y N	Secchi (ft or m)	Conductivity (ZM tow if ≥99 umhos/cm)
ULSC	Douglas	2747300				

Data collectors	Lead Monitor phone and email	Start time (~ 15 min)	End time (~ 15 min)	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.

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Site	Latitude	Longitude	Snorkel (Y or N*)	If N snorkel, indicate why†	Species, density 1-5‡
BL4	N 46.37989	W91.79966	Y		3 CMS 3 BMS 2 PL
MS18	N 46.37905	W91.78133	N		1 PL 1 YI
MS 19	N 46.37770	W91.78315	N		2 PL
MS20	N46.37705	W91.78712	N		1 PL
MS21	N46.37526	W91.78841	N		1 YI
MS22	N 46.37446	W91.79016	N		1 YI
MS23	N 46.37182	W91.79390	N		1 YI 1 PL
MS24	N46.37086	W91.79460	N		1 PL
MS24	N46.36888	W91.79559	N		1 PL 1 YI
MS25	N46.36694	W91.79712	N		2 YI
MS26	N46.36490	W91.79860	N		2 YI
MS27	N46.36364	W91.79932	N		3 YI

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ULSC	Douglas	2747300		(Y) N	1.25	107

Data collectors	Lead Monitor phone and email	Start time (~ 15 min)	End time (~ 15 min)	Total collector time (hrs x # collectors)
			1PM	

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.

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Site	Latitude	Longitude	Snorkel (Y or N*)	If N snorkel, indicate why†	Species, density 1-5‡
MS28	N46.36210	W91.80002	N		3 YI
MS29	N46.35729	W91.80251	N		2 PL
MS30	N46.35620	W91.80279	N		3 YI
MS31	N46.35506	W91.80347	N		2 YI 1 PL
MS32	N46.35417	W91.80383	N		3 YI 1 PL
TS3	N46.35290	W91.80472	Y		1 YI, 4 BMS
MS33	N46.35235	W91.80513	N		3 YI
MS34	N46.35104	W91.80727	N		1 PL 1 YI
MS35	N46.34790	W91.80923	N		2 YI
MS36	N46.34608	W91.80935	N		1 PL
MS37	N46.34526	W91.80998	N		2 PL
MS38	N46.34157	W91.81128	N		2 PL

Red A frame across for IM

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Form 3200-xxx (R 6/2013)

Lake Name	County	WBIC	Date(s)	AIS sign? Y N	Secchi (ft or m)	Conductivity (ZM tow if ≥99 umhos/cm)
ULSC	Douglas	2747300	8-13-14			

Data collectors	Lead Monitor phone and email	Start time (~ 15 min)	End time (~ 15 min)	Total collector time (hrs x # collectors)
		8:10		

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.

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Site	Latitude	Longitude	Snorkel (Y or N*)	If N snorkel, indicate why†	Species, density 1-5‡
MS39	N46.34232	W91.81130	N		2 PL
MS40	N46.34223	W91.81171	N		3 PL
MS41	N46.34106	W91.81152	N		3 PL
MS42	N46.34065	W91.81165	N		2 PL 2 YI
MS43	N46.34012	W91.81168	N		3 PL
MS44	N46.33958	W91.81163	N		1 YI 3 PL
MS45	N46.33895	W91.81166	N		3 PL
MS46	N46.33805	W91.81104	N		2 PL
MS47	N46.33805	W91.81044	N		2 YI 3 PL
MS47	N46.33910	W91.81056	N		3 PL
MS48	N46.33954	W91.81067	N		3 PL

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ULSC	Douglas	2747300	8-13-14	(Y) N		

Data collectors	Lead Monitor phone and email	Start time (~ 15 min)	End time (~ 15 min)	Total collector time (hrs x # collectors)
		8:10		

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.

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Site	Latitude	Longitude	Snorkel (Y or N*)	If N snorkel, indicate why[†]	Species, density 1-5[‡]
MS49	N46.34047	W91.81098	N		1 YI 3 PL
(MS3) X MS50	N46.34204	W91.80820	N*		1 YI 4 Narrow-Leaf cattail
MS51	N46.34134	W91.80784	N		1 PL 2 YI
MS52	N46.34074	W91.80757	N		3 YI
MS53	N 46.34021	W91.80741	N		2 PL 1 YI
MS54	N46.33902	W91.80683	N		1 PL 2 YI
MS55	N46.33758	W91.80650	N		3 YI
MS56	N46.33574	W91.80743	N		1 YI
MS57	N46.33488	W91.80789	N		3 YI
MS58	N46.33226	W91.80849	N		3 PL
X TS4	N46.32983	W91.81121	Y		5 PL 5 YI *
(MS4) X MS59	N46.33181	W91.81457	N		5 PL 4 Narrow leaf cattail

* PL & YI widespread and covers Southern outlet

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ULSC	Douglas	2747300	8-13-14	0 N		

Data collectors	Lead Monitor phone and email	Start time (~ 15 min)	End time (~ 15 min)	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.

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MS60	N46.33321	W91.81543	N		2 YI
MS61	N46.33442	W91.81525	N		3 PL
BL5	N46.33611	W91.81538	Y		2 YI, 4 BMS, 3 PL
MS62	N46.33719	W91.81527	N		1 PL 1 YI
MS63	N46.33864	W91.81506	N		1 PL
MS64	N46.33969	W91.81434	N		2 PL 2 YI
MS65	N46.34068	W91.81470	N		1 YI
MS66	N46.34111	W91.81479	N		3 PL
MS67	N46.34158	W91.81485	N		2 YI
MS68	N46.34427	W91.81503	N		1 PL
MS69	N46.34713	W91.81430	N		1 PL, 2 YI
BL6	N46.34772	W91.81435	Y		1 PL, 2 YI, 4 BMS

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Lake Name	County	WBIC	Date(s)	AIS sign? Y N	Secchi (ft or m)	Conductivity (ZM tow if ≥99 umhos/cm)
ULSC	Douglas	2247300	8-13-14			

Data collectors	Lead Monitor phone and email	Start time (~ 15 min)	End time (~ 15 min)	Total collector time (hrs x # collectors)
		8:10am	12:20	

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.

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Site	Latitude	Longitude	Snorkel (Y or N*)	If N snorkel, indicate why†	Species, density 1-5‡
MS70	N46.34876	W91.81409	N		2 YI
MS71	N46.34888	W91.81427	N		1 PL 1 YI
MS72	N46.35186	W91.81282	N		2 YI, 1 PL
TS5	N46.34990	W91.81341	Y		BMS4
BL7	N46.35279	W91.81271	Y		3 YI, 5 BMS, 3 CMS, 2 PI

page 8/8