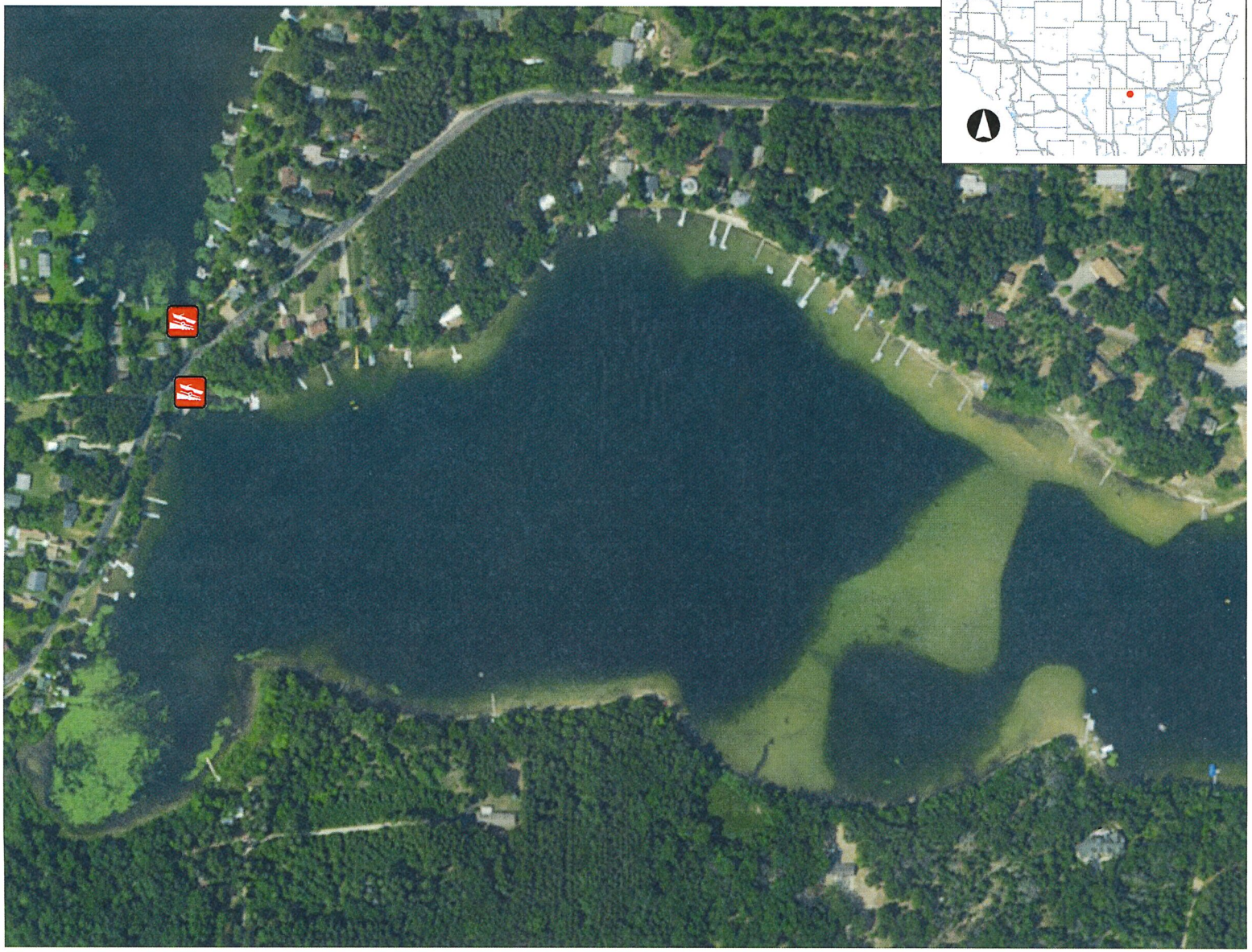
OFFICIAL_NAME	Kusel Lake
WBIC	189600
Lead	
COUNTY	Waushara
SIZE(ACRES)	73.73
Latitude	44.17085
Longitude	-89.1648
MAX_DEPTH (FEET)	29
WATERBODY_TYPE_CODE	ED Lake Survey
LANDINGCOUNT	1
Beach/Public/Park Count	
Secchi Depth (Ft)	10.56
AIS Present	Banded Mystery Snail, Curly-Leaf Pondweed, Hybrid Eurasian/Northern Water-Milfoil
Needed Vouchers	CLP
Boating Ords	Wake Restrictions
Last Monitoring Event	2011
Notes	
Volunteers	7/25/17

Kusel Lake (WBIC 189600)



Legend

- Boat Access
  - CARRY-IN
  - RAMP
  - UNKNOWN
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads
  - County HWY
  - Local Road
- Railroads
- Tribal Lands

Notes

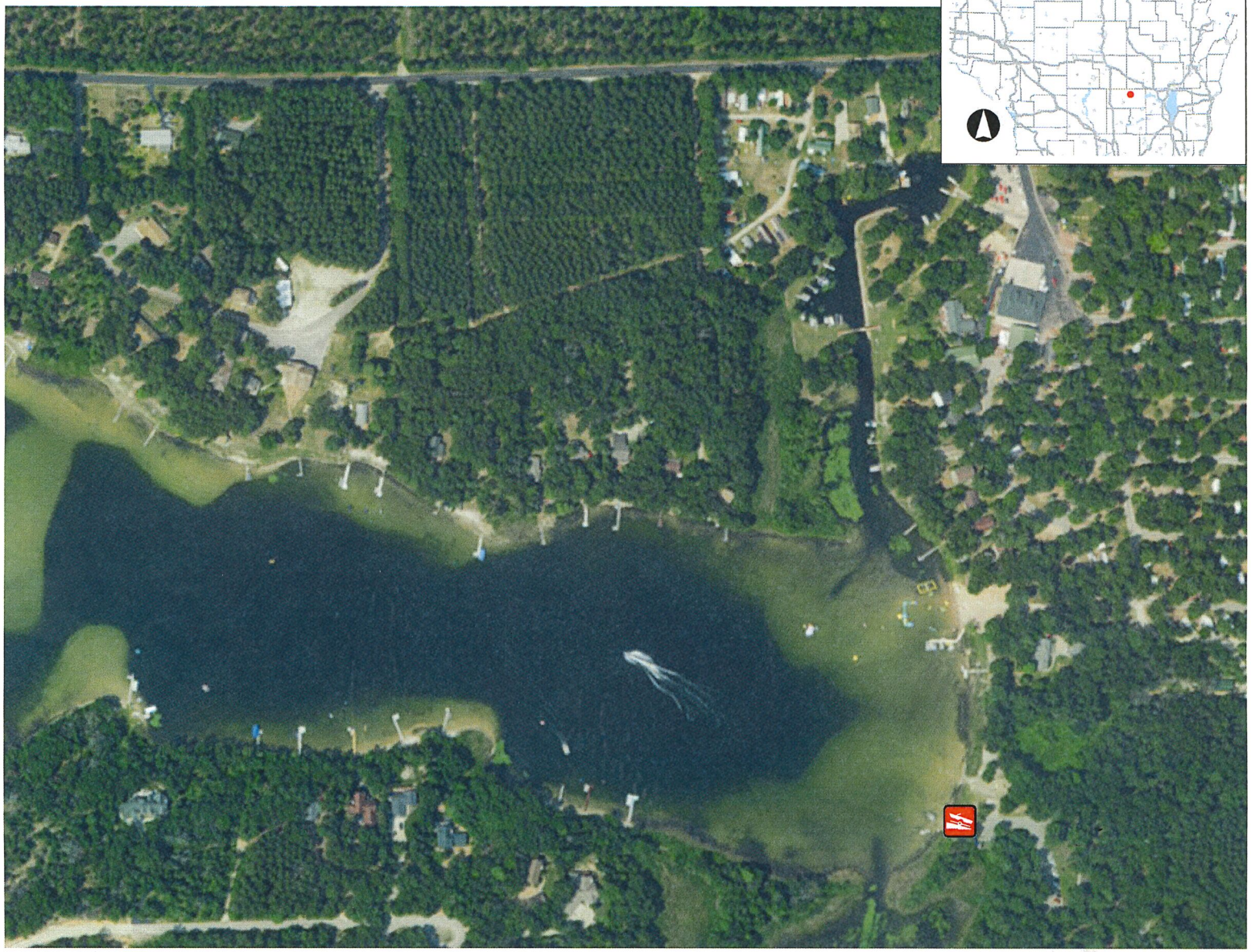
Waushara County
74 acres
Boat Launch: 44.16919, -89.15661

0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

Kusel Lake (WBIC 189600)



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NAD_1983_HARN_Wisconsin_TM

1: 3,960

Aquatic Invasive Species (AIS) Early Detection Monitoring Lake Data Form — Form 3200.1-xxx (R 5/2016)

Instructions: Bold fields must be completed.

Location Name	WBIC	County	Date(s)	AIS sign?	Secchi (ft or m)	Conductivity (ZM ≥ 99 umhos/cm)	Collector(s)	Start Time	End Time	Total Hours (hrs x # ppl)
Kusel Lake	1996000	Dane	7/25/17	Y	8.5ft	—	Alex Selle, Amy Kretlow	12:15pm	2:30pm	4.5 hrs

STEP 1: Circle species that you looked for and review the Identification Handout.

AQUATIC PLANTS/ALGAE	European frogbit	Parrot feather	Water chestnut	Phragmites	Japanese hop	New Zealand mudsnails	Faucet snails
Starry stonewort	Hydrilla	Water hyacinth	Didymo	Purple loosestrife	**INVERTEBRATES**	Chinese/Banded mystery snails	Other
Yellow floating heart	Curly leaf pondweed	Water lettuce	**RIPARIAN PLANTS**	Yellow flag iris	Zebra/quagga mussels	Rusty/red swamp crayfish	----------
Brazilian waterweed	Fanwort	Eurasian water milfoil	Flowering rush	Japanese knotweed	Asian clam	Spiny/fishhook waterflea	

STEP 2: Record locations of sampling sites (in decimal degrees). While snorkeling is optional, please indicate whether snorkeled or why not. List AIS found and density at each site or record none. Collect photographs and samples of any new AIS found. Include internal and external labels with WBIC, name of lake, county, sample date, and collector. Legibility is appreciated. If needed, preserve with adequate ethanol.

Site*	Latitude	Longitude	Snorkel (Y/N)	If no, indicate why†	Species name, density (1-5)‡, and live (L) or dead (D)§	Sample (Y/N)	Photo (Y/N)	No AIS	Comments
M1	44.16984	89.16055	Y	—	BMS (1-L)	N	N		Turkey.
M2	44.17041	89.16821	Y	—	BMS (2-L)				Chara
M3	44.17266	89.17118	N	—	EWM (2-L), BMS (1-L),	N	N		Canoe Launch
M4	44.17177	89.16441	Y	—	BMS (2-L)	N	N		
I	44.17302	89.15076	N	—	EWM (1-L) Boat Land @ Resort.				
MS	44.17090	89.15723	~~N~~ Y	—	EWM (1-L), BMS (2-L)				
BL	44.16912	89.15668			Purple loosestrife (1-L), BMS (1-D)		Y		Purple Loosestrife

*boat landing (BL), target site (TS), meander survey (MS).

†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 while bay or portion of the lake, or 5-dense plant, snail or mussel growth covering most shallow areas.

§Live (L) animals will contain flesh and live plants will generally be rooted. Dead (D) animals will not contain flesh and dead plants include sterile fragments.

h/o 3 & 4 CLP

STEP 3: Regional verifier examination specimen(s) and photographs and provide identification results. Submit to next verifier. Create ROI and attach documents.

Species	Specimen (Y/N)	Photo Name	Sent to	Date sent	Comments	*This section is completed by the verifier(s)*					
						Verifier #1	**Date**	**ID**	**Verifier #2**	**Date**	**ID**

STEP 4: For new aquatic invasive species populations, collect photographs and samples. Provide photos, preserved specimens, and copies of the datasheet to the regional DNR verifier. Name photos with the SPSCODE_YYYYMMDD_WBIC or STATIONID or LAT LONG_ COLLECTOR.

STEP 5: Data was entered into SWIMS on 8/16/17 by Alix Selle

Once data is entered, send scans of data sheets to central office (Maureen.Ferry@Wisconsin.gov).

STEP 6: Data was proofed on 10/24/2017 by Amy Kretlow

State of Wisconsin
Department of Natural Resources
Wisconsin Lakes Partnership

Mussel Veliger Tow Monitoring Report

Form 3200-135 (R 02/10)

The purpose of this form is to track the presence/absence of zebra or quagga mussel larvae (veligers) collected using a plankton net during AIS surveillance monitoring.

Notice: Information on this voluntary form is collected under ss. 33.02 and 281.11, Wis. Stats. Personally identifiable information collected on this form will be incorporated into the DNR Surface Water Integrated Monitoring System (SWIMS) Database. Personally identifiable information collected on this form will be incorporated into the DNR aquatic invasive species database. It is not intended to be used for any other purposes, but may be made available to requesters under Wisconsin's Open Records laws, ss. 19.32 - 19.39, Wis. Stats.

Primary Data Collector

Name	Phone Number	Email
Alex Sells / Amy Krethow	920-893-8552	Amy.krethow@wisconsin.gov

Monitoring Location

Waterbody Name	WBIC	County	Township Name
Kusel Lake	189600	Waushara	

Date and Time of Monitoring

Start Date	Start Time	End Date (= Start Date)	End Time
7/25/17	1:30pm	Same	1:45pm

Monitoring Results

Guidelines for how many tows to collect: If Secchi depth is >4 m (13 feet) take two 2m deep tows; if Secchi depth is between 2-4 m (6.5-13 feet) take one 2m deep tow; if Secchi depth is <2 m (<6.5 feet) take one 1m tow.

Diameter of zooplankton net opening 30cm (50cm) other_____ (circle one)

Site 1: Latitude (optional): 44.17213 N Longitude (optional): -89.16659 W ☐ Preservative Added
Secchi depth (m) 8.5ft Number of net tows 3 Depth of tows (m) 4m

Site 2: Latitude (optional): Longitude (optional): ☐ Preservative Added
Secchi depth (m)_____ Number of net tows_____ Depth of tows (m) _____

Site 3: Latitude (optional): Longitude (optional): ☐ Preservative Added
Secchi depth (m)_____ Number of net tows_____ Depth of tows (m) _____

☐ Have you consolidated all of your samples into one composite bottle?

☐ Have you sent your samples to the DNR Plymouth Service Center?

COMMENTS/OBSERVATIONS:

For DNR staff to fill out

Volume of sample that was analyzed (ml)	Date analyzed
Name of plankton sample analyst:	
Name of person or museum who identified the voucher specimen:	
Did the samples contain zebra mussel veligers? ☐ Yes ☐ No	
Have you entered the results of the samples in SWIMS? ☐ Yes ☐ No	

DNR staff: Please enter voucher information for new AIS findings into SWIMS under the Incident Report Project for your county (Choose Incident Report Form in SWIMS). Enter date of sampling for "Start Date", Person who identified specimen as "Data Collector", and Monitoring location as "Station".

State of Wisconsin
Department of Natural Resources
Wisconsin Lakes Partnership

Water Flea Tow Monitoring Report

Form 3200-128 (R 02/10)

The purpose of this form is to track the presence/absence of spiny or fishhook water fleas collected using a plankton net during AIS monitoring.

Notice: Information on this voluntary form is collected under ss. 33.02 and 281.11, Wis. Stats. Personally identifiable information collected on this form will be incorporated into the DNR Surface Water Integrated Monitoring System (SWIMS) Database. It is not intended to be used for any other purposes, but may be made available to requesters under Wisconsin's Open Records laws, ss. 19.32 - 19.39, Wis. Stats.

Primary Data Collector

Name	Phone Number	Email
Amy Kretlow / Alex Selle	920-893-8552	Amy.kretlow@wisc.gov

Monitoring Location

Waterbody Name	WBIC	County	Township Name
Kusel Lake	1896 00	Waushara	

Date and Time of Monitoring

Start Date	Start Time	End Date (= Start Date)	End Time
7/25/17	1pm	7/25/17	1:15pm

Monitoring Results

Method used: ☐ horizontal tows (near surface) ☐ oblique tows (thermocline to surface) ☐ vertical tows (bottom to surface)

Diameter of plankton net opening 30cm 50cm other_____ (circle one) ☑ Eckman Dredge

Site 1: Latitude (optional): Longitude (optional): ☐ Preservative Added

Secchi depth (m) 8.54 (optional) Eckman Depth sampled (if vertical or oblique tow) 29.4 ft/m circle one

Site 2: Latitude (optional): Longitude (optional): ☐ Preservative Added

Secchi depth (m)_____ (optional) Depth sampled (if vertical or oblique tow) _____ ft/m circle one

Site 3: Latitude (optional): Longitude (optional): ☐ Preservative Added

Secchi depth (m)_____ (optional) Depth sampled (if vertical or oblique tow) _____ ft/m circle one

☐ Have you consolidated all of your samples into one composite bottle?

☐ Have you sent your samples to the DNR Plymouth Service Center?

During this monitoring trip, did you find what you suspect are Spiny or Fishhook Waterfleas in this waterbody? ☐ Yes ☐ No

Voucher Sample

If you found Spiny or Fishhook Water fleas, did you collect a voucher specimen and bring it to your local DNR office? If so, which office?

☐ Rhinelander ☐ Spooner ☐ Green Bay ☐ Oshkosh ☐ Did not take sample to a DNR office

☐ Fitchburg ☐ Waukesha ☐ Eau Claire ☐ Superior ☐ Other Office: _____

If you find Spiny or Fishhook Water Fleas

Please bring a copy of this form, along with a voucher specimen and if possible, a map showing where you found the suspect waterfleas to your regional Citizen Lake Monitoring Coordinator at the DNR. All initial discoveries should be placed in rubbing alcohol until verification by an expert is obtained.

If you don't Find Spiny or Fishhook Water Fleas

If you submit your data online, that is all you need to do. Otherwise, please mail a copy to your regional DNR Citizen Lake Monitoring coordinator. http://dnr.wi.gov/lakes/contacts

For DNR staff to fill out

Volume of sample that was analyzed (ml)	Date analyzed
Name of plankton sample analyst:	
Name of person or museum who identified the voucher specimen	

Was the specimen confirmed as....?

Spiny Waterflea? ☐ Yes ☐ No	Fishhook Waterflea? ☐ Yes ☐ No

Have you entered the results of the voucher in SWIMS? ☐ Yes ☐ No

DNR staff: Please enter voucher information for new AIS findings into SWIMS under the Incident Report Project for your county (Choose Incident Report Form in SWIMS). Enter date of sampling for "Start Date", Person who identified specimen as "Data Collector", and Monitoring location as "Station".