

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: 121612926

Name: Menasha locks/channel round goby response monitoring

Type: Aquatic Invasive Species Monitoring

Subtype: AIS Response

Status: ACTIVE

Start Date: 8/23/2015

End Date: 12/31/2099

Purpose: On Sunday night (August 23rd) DNR staff received a call from an angler who reported catching a round goby (*Neogobius melanostomus*) below the Neenah dam, which is one of two dams at the outlet of Lake Winnebago. The angler forwarded a cell phone picture of the fish to DNR staff who visually confirmed that the picture was of a round goby. Following visual confirmation, DNR staff set minnow traps, electroshocked and fished at the reported location, and caught 2 gobies below the dam, but no gobies above. On September 3rd, DNR released confirmation of round gobies below the Neenah dam.

<http://dnr.wi.gov/news/releases/article/?id=3704>

On Friday September 4th, the Department worked with the Fox River Navigation System Authority (FRNSA) to have the Menasha Lock (located immediately downstream of the Neenah dam) to remain closed until further notice to prevent the potential upstream movement of round gobies into Lake Winnebago. FRNSA was supportive of closure.

Round gobies are hypothesized to have been transported to Little Lake Butte des Morts in bait bucket as they are unable to swim past the dam at Rapide Croche.

Objective: Determine whether round gobies are upstream of the Menasha Lock.

Comments:

Outcome: Known distribution of round goby in the Fox-Wisconsin Waterway to inform navigational guidance.

Study Design: Following the closure of the Menasha lock, WDNR AIS crews continued to collect angler reports and trapped and angling. Baited minnow traps were deployed while angling at various locations within the Menasha Channel/Lake Winnebago (Turning Basin, Water St., Menasha Marina, Smith Park, Jefferson Park, etc.) and Little Lake Butte des Morts (Fritse Park, Friendship Trail, area immediate below the locks, etc.). The lat/long locations of traps, type of bait, and time trap was set/removed was recorded, and traps were left deployed for at least 1 hr prior to checking them. All fish caught in traps were counted and identified to species, and any gobies captured were collected for official verification.

QA Measures: Staff will be trained in monitoring protocols and identification. Specimens will be verified and vouchered. Data will be entered into SWIMS.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
BAILLIES, KACI J	TEAM_MEMBER	ACTIVE	11/16/2015		Wisconsin DNR	
FRANKLIN, KORIN M	TEAM_MEMBER	INACTIVE	11/16/2015	5/22/2018	Wisconsin DNR	
KALSCHEUR, MAUREEN M	TEAM_MEMBER	ACTIVE	10/29/2015		Wisconsin DNR	
MOTIFF, RYAN M	TEAM_MEMBER	ACTIVE	10/29/2015		Wisconsin DNR	
Nault, Michelle E	TEAM_MEMBER	COMPLETE	10/29/2015	9/14/2018	Wisconsin DNR	
SMITH, AMANDA S	TEAM_MEMBER	ACTIVE	11/9/2018		Wisconsin DNR	

Project Statuses

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Date	Reported By	Status	Comments		
Actions					
Action	Detailed Description	Start Date	End Date	Status	
Aquatic Invasive Species Removal	<p>The treatment of the Menasha lock to move the stranded vessels through up to Lake Winnebago occurred today. Staff were on site early to get things ready. Boats began arriving around 8:30am and we closed the lower lock doors at 9:00 am (photo IMG_3938). Lock filling/chemical introduction commenced shortly thereafter (IMG_3942). Once the lock was filled, which only took about 10 ? 15 minutes, we had one of the last boats in run his props for a short time to make sure the Rotenone was fully distributed in the chamber. The boat owners then disembarked and left the site. Then Bob Stark and myself spoke to the media present, which included all three TV stations and a reporter from the Post Crescent. Afterward, a number of us stayed on-site for a while to observe the treatment. Fish near the upper lock door starting appearing in distress within 15 minutes of the application (IMG_3960). Within an hour, there were dead or distressed fish throughout the lock chamber all the way to the lower doors. This indicated to me and the team that there was sufficient product throughout the chamber. Mark Baldock, Andrew Notbohm, Bob Hoodie and Michelle Nault were on-sight the entire duration of the treatment.</p> <p>Fish that I observed in the chamber were gizzard shad, drum, whitebass, carp, emerald shiner, bluegill, yellow perch, walleye and smallmouth bass. The vast majority of the fish were gizzard shad, with small bluegill and shiners next. Only a single carp and walleye were observed. I got a key for the lock area and plan to stop back over the next couple of days to look for any sign of gobies that might float up after a day or two of being dead, though I don?t think that we?ll see any.</p> <p>At 1:30 pm the bioassay cages with sacrificial gobies were lifted and there was 100% mortality of the targeted species. The boat owners were called and returned to their boats for departure. Once all the owners were aboard their vessels the ?fleet? left the lock chamber at 2:30 pm (IMG_3967). This was fortunate as there was a pretty good NNE wind and many of the boat owner had to get down to Oshkosh. Getting them out early allowed them to make the trip safely in the daylight.</p>	10/1/2015	10/1/2015	COMPLETE	
Details: Parameter	Value/Amount	Units	Comments		
% reduction in area infested by invasive species					

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Details: Parameter	Value/Amount	Units	Comments
Area infested by invasive species			

Monitoring Stations

Station ID	Name	Comments
10020176	Fox River -- Village of Kimberly - Sunset Park Ramp	
10044423	Fox River Lock Channel-Menasha	
10007486	Lake Winnebago - 00 North Basin	
10007860	Little Lake Butte Des Morts Fish Survey	
10044424	Neenah Channel	

Assessment Units

WBIC	Segment	Local Name	Official Name
117900	3	Lower Fox River (Appleton Dam To L. Winnebago Outlet)	Fox River
129800	1	Little Lake Butte Des Morts	Little Lake Butte Des Morts
129800	2	Little Lake Butte Des Morts -- Menasha - Fritze Park Beach Access	Little Lake Butte Des Morts
129800	3	Little Lake Butte Des Morts (Herb and Dolly Smith Park Beach Access)	Little Lake Butte Des Morts
130600	1	Neenah Channel	Neenah Channel
131100	1	Lake Winnebago	Lake Winnebago
131100	2	High Cliff SP - Lake Winnebago Beach	Lake Winnebago
131100	3	Menominee Park Beach	Lake Winnebago
131100	4	Lake Winnebago - Fresh Air Park Beach	Lake Winnebago

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
AIS_EDD_2013	AIS Early Detection Monitoring Form (R 06/2013)
INV_ANIMAL_INCIDEN10	Aquatic Invasive Animal Incident Report (R 02/10)
AIS_EDD_2018	Aquatic Invasive Species (AIS) Early Detection Monitoring Lake Data Form [2018]

Methods

Method Code	Method Description
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Fieldwork Events

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Start Date	Status	Field ID	Station ID	Station Name
8/31/2015 13:00	COMPLETE		10007860	Little Lake Butte Des Morts Fish Survey
6/18/2019 14:00	COMPLETE		10020176	Fox River -- Village of Kimberly - Sunset Park Ramp
7/29/2019 14:30	COMPLETE		10020176	Fox River -- Village of Kimberly - Sunset Park Ramp

Documents

Title	Description	Author	Published	Comments
Goby Lock Treatment [2015 - Menasha Lock]		Kendall Kamke	10/1/2015	
Image of Chemical Addition to Waters of Menasha Lock for Goby Treatment	Photo of chemical addition to waters of the Menasha Lock a little after 9:00am on October 1, 2015 to treat for gobies	Kendall Kamke	10/1/2015	
Image of Vessels Leaving Menasha Lock after Chemical Treatment of Water	Image shows boats leaving the Menasha Lock around 2:30pm after chemical treatment for gobies was done in the lock on October 1, 2015.	Kendall Kamke	10/1/2015	
Photo of Boats in Menasha Lock for Goby Treatment	Photo of boats anchored in the Menasha Lock after the lower lock doors were closed at 9:00am on October 1, 2015	Kendall Kamke	10/1/2015	
Photo of Fish Near Upper Lock Door of Menasha Lock In Distress	Photo of fish in distress and dying near the upper lock doors of Menasha Lock 10-15 minutes after chemical treatment was added and mixed into the water of the lock.	Kendall Kamke	10/1/2015	
Round Goby Angler Reports 2015-2018	Map illustrating the approximate distribution of verified round goby angler reports in Little Lake Butte des Morts and the Fox River over time (2015 -2018).	Michelle Nault	10/8/2018	
Round goby angler report map - Little Lake Butte des Morts (Fall 2015)	Summary map of the angler reports received during Fall 2015 from LLBDM which Fisheries/AIS staff compiled through both the smartphone app & direct contact w/ staff.	Michelle Nault	11/9/2015	
Round goby angler report map - Little Lake Butte des Morts (Fall 2016)	Summary map of the verified angler goby reports received during 2015 & 2016 from LLBDM which Fisheries/AIS staff compiled through both the smartphone app & direct contact w/ staff.	Michelle Nault	10/11/2016	
Round goby angler report summary (2015-2018)	Tracking spreadsheet of angler reported 'gobies' reported to WDNR between 2015-2018. Includes details on verified reports, misidentifications, and unverified reports.	Michelle Nault	10/8/2018	

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Round goby angler report summary - Little Lake Butte des Morts (Fall 2015)	Summary file of the angler reports received during Fall 2015 from LLBDM which Fisheries/AIS staff compiled through both the smartphone app & direct contact w/ staff.	Michelle Nault	11/9/2015	
Round goby minnow trapping & angling data - Menasha Channel (Fall 2015)	Raw data of minnow trapping & angling efforts conducted from Oct 20-Nov 6, 2015 (two separate tabs) in the Menasha channel and surrounding vicinity.	Michelle Nault	11/6/2015	
Round goby minnow trapping data - LLBDM / Menasha Channel (Summer 2016)	Raw data of minnow trapping efforts conducted from June 2-17, 2016 in LLBDM and the Menasha channel for round goby monitoring.	Michelle Nault	6/17/2016	
Round goby minnow trapping map - LLBDM / Menasha Channel (Summer 2016)	Map of the distribution of minnow trap locations and round gobies detected during monitoring efforts conducted from June 2-17, 2016. Small green dots indicate trap locations while larger red 'fish' dot indicates location gobies caught.	Michelle Nault	6/17/2016	
Round goby minnow trapping map - Menasha Channel (Fall 2015)	Map of the distribution of minnow trap locations and round gobies detected during monitoring efforts conducted from Oct 20-Nov 6, 2015. Small green dots indicate trap locations while larger red 'fish' dot indicates location of one goby caught off the Trestle Trail bridge.	Michelle Nault	11/6/2015	

Budget

Combined Budgets:
Combined WSLH:
Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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