Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: AIRD11218

Name: UNIVERSITY OF WISCONSIN - OSHKOSH: Impacts of zebra mussels on P uptake in Lake Winnebago

Type: Aquatic Invasives Grant

Subtype:

Status: COMPLETE

Start Date: 4/15/2018 **End Date:** 12/31/2021

Purpose: UW-Oshkosh is sponsoring a grant to study the impacts of zebra mussels on phosphorus uptake and conversion in Lake

Winnebago. 1) Zebra mussel density and biomass will be monitored using scuba divers at ten rocky littoral sites and five offshore reefs twice per summer during 2018 and 2019. Maps of zebra mussel density and biomass will be created. 2) Mesocosms with lake water will be set up along the shoreline in 2018 and 2019 at five sites and zebra mussels attached to rocks from the site will be added. Total phosphorus (TP) clearance from the mesocosm water will be measured. Then the excretion rate of soluble reactive phosphorus (SRP) from individual zebra mussels from the mesocosms will be measured in smaller containers of filtered lake water. 3) Whole-lake estimates of zebra mussel TP clearance and SRP excretion will be developed using the zebra mussel survey data and phosphorus conversion rates from the mesocosm studies. SRP loading estimates will be compared with known sources of SRP through collaboration with those working on the Upper Fox River TMDL. The information collected during this study will be provided to the TMDL team. Department liason(s) will oversee the proposed studies. Biannual check-in meetings will occur and progress reports will be presented to Department staff. The first check-in meeting will occur before project work begins. Results will be shared at professional meetings (including the Wisconsin Lakes Convention) and published in peer-reviewed scientific journals. A short management brief, summarizing study findings for the general public, will be developed in collaboration with the Department. The final project report will include results, conclusions of studies and any project data in electronic format. It is recommended that the Grantee provide

the DNR liaison with a draft report prior to requesting final payment.

Objective:

Comments: Grantee is UNIVERSITY OF WISCONSIN - OSHKOSH

Outcome:

Study Design:

QA Measures:

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
University of Wisconsin Oshkos	GRANT_RECIPI ENT	ACTIVE	12/14/2018		University of Wisconsin Oshkosh	

Project Statuses

Date	Reported By	Status	Comments

Actions				
Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	Grant AIRD11218 awarded	4/15/2018	12/31/2019	COMPLETE

Monitoring Stations

Station ID Name	Comments
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Assessment Units

Wisconsin Department of Natural Resources SWIMS Project Summary

WBIC	Segment	Local Name	Official Name	
117900	4	Fox River (At Oshkosh)	Fox River	
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	
131130	1	Unnamed Creek	Unnamed	
131200	1	Unnamed Streams	Unnamed	
131500	1	Mill Creek	Mill Creek	
131600	1	Mud Creek	Mud Creek	
131650	1	Unnamed Trib to Lk Winnebago	Unnamed	
131700	1	Roberts Creek	Roberts Creek	
131900	1	Johnson Creek	Johnson Creek	
132100	1	Brothertown Creek	Unnamed	
132200	1	Paukotuk-Candlish Creek	Unnamed	
132300	1	Local Water	Unnamed	
132400	1	Local Water	Unnamed	
132600	1	Van Dyne Creek	Van Dyne Creek	
133600	1	Supple Marsh	Supple Marsh	
138400	1	Taycheedah Creek	Taycheedah Creek	
3000093	1	Unnamed trib to Lake Winnebago	Unnamed	
3000094	1	Local Water	Unnamed	
3000188	1	Local Water	Unnamed	
5023696	1	Unnamed Stream	Unnamed	
5025342	1	Unnamed Stream	Unnamed	
5025803	1	Unnamed Stream	Unnamed	
5562315	1	Local Water	Unnamed	
5562445	1	Lake Winnebago- Channel Off Harbor View	Unnamed	
5562446	1	Local Water	Unnamed	
5587866	1	Local Water	Unnamed	
Lab Account C	odes			
Account Code	Descrir	stion	Start Date End Date	

Lab Account Codes				
Account Code	Start Date	End Date		
Forms				
Form Code	Form Name			

Wisconsin Department of Natural Resources SWIMS Project Summary

Methods	
Method Code	Method Description

Fieldwork Events

Start Date Status Field ID Station ID Station Name

Documents

Title Description Author Published Comments

Budget

Combined Budgets: Combined WSLH:

Combined Total: \$0.00

Funding
Organization Source Type Amount Start Date End Date