

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: AEPP-374-13
Name: NORTH LAKELAND DISCOVERY CENTER: Manitowish Chain of Lakes Management Planning Project, Phase 2a
Type: Aquatic Invasives Grant
Subtype: Aquatic Invasives Education
Status: COMPLETE
Start Date: 10/01/2012
End Date: 12/31/2016
Purpose: North Lakeland Discovery Center is sponsoring a study of Clear Lake and Fawn Lake, in Vilas County focusing on developing a Lake Management Plan (LMP) for Clear Lake and Fawn Lake, conducting AIS education and monitoring, and performing early-season AIS monitoring on Stone Lake and Manitowish Lake.

Project activities include: 1) Stakeholder participation \2013 stakeholder survey, planning meetings (up to 2), kick-off meeting, wrap-up meeting, news release(s), and newsletter article; 2) Water quality sampling and analysis; 3) Watershed assessment and P load modeling; 4) Fisheries assessment and shoreline assessment; 5) Professional Dreissena monitoring; 6) Aquatic plant surveys (PI survey, CLP assessment, community mapping, substrate mapping); 7) Data analysis; 8) Hire AIS Coordinator and Water Education Intern; 9) Volunteer watercraft inspections and AIS monitoring; 10) CLP hand-pulling and PL bio-control program; 11) AIS educational activities; 12) Develop LMP.

Project deliverables include: 1) Stakeholder survey, news release(s), and newsletter article; 2) Water chemistry data, watershed maps, and modeling data; 3) PI and shoreland data; 4) Aquatic plant community and substrate maps and aquatic plant vouchers; 5) Entered inspection and AIS monitoring data into SWIMS; 6) Hired staff; 7) AIS educational products and events; 8) LMP.

Specific conditions for this project: 1) Draft of stakeholder survey needs to be submitted to Lakes Management Coordinator for review and approval before sending to public; 2) Draft of LMP needs Dept review and approval.

WDNR Lakes Management Coordinator will be provided with an electronic (pdf or word) copy of LMP, news release(s), newsletter article, any AIS educational products, stakeholder survey, data from PI, shoreland assessment, watershed assessment and water quality sampling, all maps from project, all GIS data, and aquatic plant vouchers.

Objective:

Comments: Grantee is NORTH LAKELAND DISCOVERY CENTER

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Cibulka, Dan	TEAM_MEMBER	ACTIVE	12/19/2013		Onterra, LLC	
Hanke, Todd	TEAM_MEMBER	ACTIVE	12/19/2013		Onterra, LLC	
Heald, Emily	COORDINATOR	ACTIVE	03/22/2017		North Lakeland Discovery Center	
Hoyman, Tim	TEAM_MEMBER	ACTIVE	12/19/2013		Onterra, LLC	
North Lakeland Discovery Ce	GRANT_RECIPII	ACTIVE	10/01/2012		North Lakeland Discovery Center	
Oberleitner, Brandon	TEAM_MEMBER	ACTIVE	05/03/2017		North Lakeland Discovery Center	
Platt, Heather	TEAM_MEMBER	ACTIVE	05/03/2017		North Lakeland Discovery Center	
Tesensky, John	TEAM_MEMBER	ACTIVE	05/03/2017		North Lakeland Discovery Center	

Project Statuses

Date	Reported By	Status	Comments
------	-------------	--------	----------

Wisconsin Department of Natural Resources SWIMS Project Summary

Actions

Action	Detailed Description	Start	End Date	Status
Shoreland Monitoring, Assessment, Inventory	Shoreland Monitoring, Assessment or Inventory	10/01/2012	06/30/2016	PROPOSED
Develop/Distribute Brochures/Literature		10/01/2012	06/30/2015	PROPOSED
APM Mechanical Permit Request		10/01/2012	06/30/2015	PROPOSED
Details: Parameter	Value/Amount	Units	Comments	
Total Acres harvested				
Total pounds of plants harvested				
Informational Meetings		10/01/2012	06/30/2015	PROPOSED
Monitor Invasive Species		10/01/2012	06/30/2015	PROPOSED
Monitor Fish Community		10/01/2012	06/30/2015	PROPOSED
Watershed Mapping or Assessment		10/01/2012	06/30/2015	PROPOSED
Map Invasive Species		10/01/2012	06/30/2015	PROPOSED
Grant Awarded	2329000 Clear Lake	10/01/2012	06/30/2015	COMPLETE
Social Survey of Residents or Users		10/01/2012	06/30/2015	PROPOSED
Lake Management Plan Development		10/01/2012	06/30/2015	PROPOSED
Information and Education		10/01/2012	06/30/2015	PROPOSED
Aquatic Plant Monitoring or Survey		10/01/2012	06/30/2015	PROPOSED
Monitor Water Quality or Sediment		10/01/2012	06/30/2015	PROPOSED
Grant Awarded	2328900 Fawn Lake	10/01/2012	06/30/2015	COMPLETE
Watercraft Inspections Clean Boats, Clean Waters		10/01/2012	06/30/2015	PROPOSED
Develop/Distribute Newsletter		10/01/2012	06/30/2015	PROPOSED
Issue News/Media Release		10/01/2012	06/30/2015	PROPOSED
Biomonitoring Toxicity Tests		10/01/2012	06/30/2015	PROPOSED

Monitoring Stations

Station ID	Name	Comments
10005964	Clear Lake (Vilas Co)	
643415	Clear Lake - Deep Hole (42 05e 12)	
10006408	Fawn Lake	
643285	Fawn Lake - Deep Hole	
10006424	Little Star Lake	
643078	Little Star Lake - Deep Hole	

Assessment Units

WBIC	Segment	Local Name	Official Name
2328900	1	Fawn Lake T42n R05e S11 (Mud)	Fawn Lake
2329000	1	Clear Lake	Clear Lake
2334300	1	Little Star Lake T42n R05e S15	Little Star Lake

Lab Account Codes

Account Code	Description	Start Date	End Date
--------------	-------------	------------	----------

Forms

Form Code	Form Name
AIS_PRES_ABS_0903	Aquatic Invasives Presence/Absence Report (R 03/09)

Wisconsin Department of Natural Resources SWIMS Project Summary

Form Code	Form Name
SECCHI_TEMPDO	Lake Monitoring - Secchi, Temperature and D.O.
WATERCRAFT_2014	Watercraft Inspection Report (Revised 4/2014)

Methods

Method Code	Description
-------------	-------------

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
06/18/2013 10:15	COMPLETE	FLB	643285	Fawn Lake - Deep Hole
06/18/2013 10:15	COMPLETE	FLS	643285	Fawn Lake - Deep Hole
06/18/2013 10:50	COMPLETE	CLB	643415	Clear Lake - Deep Hole (42 05e 12)
06/18/2013 10:50	COMPLETE	CLS	643415	Clear Lake - Deep Hole (42 05e 12)
07/24/2013 08:45	COMPLETE	FLB	643285	Fawn Lake - Deep Hole
07/24/2013 08:45	COMPLETE	FLS	643285	Fawn Lake - Deep Hole
07/24/2013 09:15	COMPLETE	CLB	643415	Clear Lake - Deep Hole (42 05e 12)
07/24/2013 09:15	COMPLETE	CLS	643415	Clear Lake - Deep Hole (42 05e 12)
08/26/2013 10:00	COMPLETE	CLS	643415	Clear Lake - Deep Hole (42 05e 12)
08/26/2013 11:00	COMPLETE	CLB	643415	Clear Lake - Deep Hole (42 05e 12)
08/26/2013 11:00	COMPLETE	FLB	643285	Fawn Lake - Deep Hole
08/26/2013 11:00	COMPLETE	FLS	643285	Fawn Lake - Deep Hole
10/10/2013 09:15	COMPLETE	FLB	643285	Fawn Lake - Deep Hole
10/10/2013 09:15	COMPLETE	FLS	643285	Fawn Lake - Deep Hole
10/10/2013 09:35	COMPLETE	CLB	643415	Clear Lake - Deep Hole (42 05e 12)
10/10/2013 09:35	COMPLETE	CLS	643415	Clear Lake - Deep Hole (42 05e 12)
02/19/2014 12:20	COMPLETE	CLB	643415	Clear Lake - Deep Hole (42 05e 12)
02/19/2014 12:20	COMPLETE	CLS	643415	Clear Lake - Deep Hole (42 05e 12)
02/19/2014 12:57	COMPLETE	FLB	643285	Fawn Lake - Deep Hole
02/19/2014 12:57	COMPLETE	FLS	643285	Fawn Lake - Deep Hole
05/07/2017	COMPLETE		643078	Little Star Lake - Deep Hole

Documents

Title	Description	Author	Published	Comments
Manitowish Waters Chain of Lakes Comprehensive Management Plan - Vilas County [Draft]	Beginning in 2011, a phased approach was developed to address each lake within the chain over the course of 2011-2016. Developing management plans for small clusters of lakes within the chain creates a manageable process that allows for sufficient attention to be applied to each lake's needs.	Brenton Butterfield, Tim Hoyman, Todd Hanke, and Eddie Heath, Onterra, LLC	03/01/2017	

Budget

Combined Budgets:

Combined SLOH:

Combined Total:

Funding

September 18, 2019

Wisconsin Department of Natural Resources SWIMS Project Summary

Organization	Source	Type	Amount	Start Date	End Date
--------------	--------	------	--------	------------	----------