

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: AEPP-396-13
Name: ECHO LAKE ASSOC, LTD: 2013-2015 APM Plan Implementation Project
Type: Aquatic Invasives Grant
Subtype: Aquatic Invasives Education
Status: COMPLETE
Start Date: 04/01/2013
End Date: 06/30/2017
Purpose: Echo Lake Association is sponsoring a 3-yr project to implement approved activities from the Echo Lake Aquatic Plant Management Plan.

Project deliverables include GIS data & maps of areas monitored, aquatic plant monitoring & bed mapping results, examples of AIS education & outreach, AIS monitoring & watercraft inspection data in SWIMS, water quality data in SWIMS, and report on shoreland restoration education.

Specific project activities include: 1) Pre-post treatment aquatic plant monitoring; 2) Fall bed mapping for Eurasian water milfoil; 3) Watercraft inspections, including Landing Blitz participation; 4) AIS education & monitoring; 5) Dissolved oxygen and temperature profile monitoring; 6) Shoreland restoration education.

Special Conditions: 1) WDNR/2019s Aquatic Plant Management in Wisconsin guidance shall be followed for aquatic plant monitoring; 2) Sponsor shall contact DNR immediately if a new AIS is found; 3) AIS monitoring and watercraft inspection personnel shall be trained and follow DNR approved protocols.

This scope summarizes the project detail provided in the application and does not negate tasks/deliverables described therein. Data, records, and reports, including GIS-based maps, and digital images, must be submitted to the Department in a format specified by the regional Lakes Biologist.

Objective:

Comments: Grantee is ECHO LAKE ASSOC, LTD

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Echo Lake Association (Barron Co.)	GRANT_RECIPIENT	ACTIVE	06/13/2013		Echo Lake Association (Barron Co.)	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start	End Date	Status
Project Deliverable	Project deliverables include GIS data & maps of areas monitored, aquatic plant monitoring & bed mapping results, examples of AIS education & outreach, AIS monitoring & watercraft inspection data in SWIMS, water quality data in SWIMS, and report on shoreland restoration education	04/01/2013	06/30/2016	PROPOSED
Map Invasive Species		04/01/2013	06/30/2016	PROPOSED
Aquatic Plant Monitoring or Survey		04/01/2013	06/30/2016	PROPOSED
Monitor Invasive Species		04/01/2013	06/30/2016	PROPOSED
Habitat Restoration - Shoreland	Shoreland Restoration	04/01/2013	06/30/2017	PROPOSED
Grant Awarded		04/01/2013	06/30/2016	COMPLETE

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Action	Detailed Description	Start	End Date	Status
Information and Education		04/01/2013	06/30/2016	PROPOSED
Monitor Water Quality or Sediment		04/01/2013	06/30/2016	PROPOSED
Watercraft Inspections Clean Boats, Clean Waters		04/01/2013	06/30/2016	PROPOSED
Monitor Pre and Post Treatment		04/01/2013	06/30/2016	PROPOSED

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
2630200	1	Echo Lake	Echo Lake

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
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Methods

Method Code	Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
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Documents

Title	Description	Author	Published	Comments
EWM Management in Echo Lake - A Brief History	The annual meeting of Echo Lake, discussing EWM Management in Echo Lake - a brief history and sounding of the alarm.	Dave Blumer	05/25/2014	
EWM Rake Removal Manual and Fall Bed Mapping Surveys	Echo Lake (WBIC 2630200) is a 172 acre stratified seepage lake in west-central Barron County, Wisconsin in the Town of Almena (T34N R14W S07 NE NE) (Figure 1). The lake reaches a maximum depth of 41ft in the southeast corner of the central basin and has an average depth of 20ft (Busch et al. 1967). Echo Lake is mesotrophic bordering on oligotrophic in nature and water clarity is good to very good with summer Secchi readings from 2004-16 averaging 12ft (WDR 2016). Bottom substrate is variable with sandy muck bottoms in most bays and rock/sand bars along most points and around the lake's islands. Eurasian water-milfoil (<i>Myriophyllum spicatum</i>) (EWM) was discovered in Echo Lake in 2006, and the Echo Lake Association (ELA) has been actively managing this invasive	Mathew S. Berg	07/15/2016	

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Title	Description	Author	Published	Comments
Echo Lake APM and Implementation Summary Report	<p>exotic species since 2008. Following the 2015 fall EWM bed mapping survey that found extremely low numbers of EWM plants scattered throughout the lake, the ELA, under the direction of Lake Education and Planning Services, Inc. (LEAPS), proposed to continue with lakewide monitoring and manual rake removal of all EWM found in 2016.</p> <p>This report discusses aquatic plant management activities completed by the Echo Lake Association (ELA) and Lake Education and Planning Services (LEAPS) during the 2014 season and provides a proposed Eurasian watermilfoil (EWM) control plan for 2015. The 2015 treatment proposal provides the Association with the information needed to contract with a certified aquatic herbicide applicator to complete the necessary WDNR permitting and herbicide treatment. The following list of education and management actions were completed in 2014.</p>	Dave Blumer	04/02/2015	
Echo Lake EWM Treatment Areas 2013	EWM treatment areas of Echo Lake.	Grant Recipient	01/01/2013	
Echo Lake Green Frog Report	Property owners were again approached about installing rain gardens and/or native plantings along the shores of Echo Lake. One property owner, Dick Hyllestad completed a shoreland inventory and small shoreland native planting based on recommendations made by The Green From shoreland consulting company.	Grant Recipient	05/24/2015	
Eurasian water milfoil (Myriophyllum spicatum) Pre/Post Herbicide and Fall Bed Mapping Surveys	Initial expectations were to treat four beds totaling 1.43 acres with granular 2, 4-D (Navigate) at a concentration of 3ppm (Table 1). Following the pretreatment survey where we found EWM at or inter-point in each of these areas, it was determined to maintain the treatment as initially planned. The final treatment was conducted by Lake Management, Inc. on June 26th	Endangered Resource Services, LLC	10/15/2013	

Budget

Combined Budgets:
 Combined SLOH:
 Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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