

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPL164317

Name: BIG CHETAC CHAIN LAKE ASSOCIATION: Big Chetac & Birch Lakes WQ, Shoreland, & Aquatic Plant Project

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 2/15/2017

End Date: 6/30/2020

Purpose: The Big Chetac and Birch Lakes Association is sponsoring a project to collect baseline water quality and habitat data for Chetac and Birch Lakes, conduct fishing success surveys at resorts, and support stakeholder planning committee meetings.

Project deliverables include all monitoring and mapping data, stakeholder committee meeting agendas and minutes, fishing success survey data, and a final report summarizing the results of the project.

Special Conditions: 1) CLMN efforts should not be duplicated, and these data shall be included in the trends analysis and final reporting; 2) Sponsor shall contact DNR immediately if a new AIS is found; 3) All monitoring data shall be entered into SWIMS; 4) Fishing Success Survey shall be reviewed and approved by DNR to ensure it is consistent with Creel Survey methodology.

This scope summarizes the project detail provided in the application and does not negate tasks/deliverables described therein. The grant sponsor shall submit all data, records, and reports, including GIS-based maps and digital images, to the Department in a format specified by the regional Lakes Biologist.

Objective:

Comments: Grantee is BIG CHETAC CHAIN LAKE ASSOCIATION

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Big Chetac And Birch Lakes Ass	GRANT_RECIPIENT	ACTIVE	5/10/2017		Big Chetac And Birch Lakes Association	
Blumer, David L	TEAM_MEMBER	ACTIVE	5/10/2017		Lake Education and Planning Services (LEAPS)	
Longacre, Steve	TEAM_MEMBER	ACTIVE	5/10/2017			

Project Statuses

Date	Reported By	Status	Comments
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Actions

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Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	<p>The Big Chetac and Birch Lakes Association is sponsoring a project to collect baseline water quality and habitat data for Chetac and Birch Lakes, conduct fishing success surveys at resorts, and support stakeholder planning committee meetings.</p> <p>Project deliverables include all monitoring and mapping data, stakeholder committee meeting agendas and minutes, fishing success survey data, and a final report summarizing the results of the project.</p>	2/15/2017	6/30/2019	COMPLETE

Monitoring Stations

Station ID	Name	Comments
663045	Balsam Lake - Deep Hole Near Birchwood WI	
10048295	Birch Lake at CTY F Bridge	
033142	Hemlock Lake - Deep Hole	
663152	Red Cedar River at Cth D At Birchwood	

Assessment Units

WBIC	Segment	Local Name	Official Name
2109800	1	Hemlock Lake	Hemlock Lake
2112800	1	Balsam Lake	Balsam Lake
2113000	1	Birch Lake	Birch Lake
2113300	1	Lake Chetac	Lake Chetac
5004784	1	Unnamed Trib from Birch to Balsam Lk	Unnamed

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	Method Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
4/23/2017 15:10	COMPLETE	NA	10048295	Birch Lake at CTY F Bridge
4/23/2017 15:15	COMPLETE	NA	663152	Red Cedar River at Cth D At Birchwood
5/28/2017 13:50	COMPLETE	BIRCH OUTLET	663152	Red Cedar River at Cth D At Birchwood
5/28/2017 14:00	COMPLETE	BIRCH INLET	10048295	Birch Lake at CTY F Bridge

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7/12/2017 12:15	COMPLETE	BIRCH	10048295	Birch Lake at CTY F Bridge
7/12/2017 12:30	COMPLETE	RED CEDAR	663152	Red Cedar River at Cth D At Birchwood
7/30/2017 10:30	COMPLETE	NA	663152	Red Cedar River at Cth D At Birchwood
7/30/2017 10:30	COMPLETE	NA	10048295	Birch Lake at CTY F Bridge
8/24/2017 12:30	COMPLETE	BIRCH LAKE	10048295	Birch Lake at CTY F Bridge
8/24/2017 13:15	COMPLETE	RED CEDAR RIVER	663152	Red Cedar River at Cth D At Birchwood
9/17/2017 9:00	COMPLETE	NA	10048295	Birch Lake at CTY F Bridge
9/17/2017 10:30	COMPLETE	RED CEDAR RIVER	663152	Red Cedar River at Cth D At Birchwood
10/25/2017 13:50	COMPLETE	BIRCH LAKE	10048295	Birch Lake at CTY F Bridge
10/25/2017 15:15	COMPLETE	RED CEDAR RIVER	663152	Red Cedar River at Cth D At Birchwood
9/19/2019 15:00	COMPLETE		033142	Hemlock Lake - Deep Hole
9/26/2019 14:30	COMPLETE	NA	663045	Balsam Lake - Deep Hole Near Birchwood WI
10/7/2019 12:00	COMPLETE	NA	663045	Balsam Lake - Deep Hole Near Birchwood WI
10/19/2019 14:00	COMPLETE		033142	Hemlock Lake - Deep Hole

Documents

Title	Description	Author	Published	Comments
Big Chetac Lake PI Survey Data [Excel File]	Excel file of the PI survey data collected between July 28-29, 2017. Also includes the PI survey data from July 20-22, 2008 and July 15-17, 2014 in other tabs	Matthew S. Berg, Endangered Resource Services, LLC	7/29/2017	
Big Chetac and Birch Lakes Comprehensive Management Plan Review	The Department has reviewed the 2020 -2024 Comprehensive Lake Management Plan for Big Chetac and Birch Lakes and determined that the monitoring and management activities identified in the plan are eligible for Surface Water Grants funding subject to the application requirements of the grants program.	Alex Smith	3/31/2020	

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<p>Big Chetac and Birch Lakes, Sawyer/Washburn County. 2020-24 Comprehensive Management Plan</p>	<p>In the mid-2000s Big Chetac, Birch, and Little Birch lakes experienced severe algae blooms such that during the summer of 2005, the Sawyer County Land and Water Conservation Department placed environmental hazard warning signs on the lake due to the high blue-green algae concentrations. Deteriorating water quality conditions in the system drove the Big Chetac and Birch Lakes Association (BCABLA) to pursue a series of Wisconsin Department of Natural Resources (WDNR) Lake Management Planning Grants to complete a comprehensive Getting Rid of the Green lake study. The goal of this study, which began in 2007 and was completed in 2010, was to identify the contributing factors to the blue-green algae blooms in Big Chetac Lake. It included a comprehensive look at the nutrient levels in the system, their sources, and the impact they have. It included a whole-lake early season curly-leaf pondweed (CLP) and mid-summer point-intercept (PI) aquatic plant survey, groundwater and watershed assessment, septic system survey, and a paleo-ecological study of the sediments in the lake to determine historical conditions. The end result of this study was a Comprehensive Lake Management Plan (LMP) for the Big Chetac Lake written by Short, Elliot, Hendrickson (SEH) Inc. Recommendations for improving water quality were presented to the BCABLA and the WDNR in June 2010.</p>	<p>Dave Blumer</p>	<p>12/1/2019</p>	
<p>Goals, Objectives, and Actions included in the Comprehensive Management Plan for Big Chetac, Birch, and Little Birch Lakes</p>	<p>Promote and support a healthy, diverse, and sustainable fishery Big Chetac, Birch, and Little Birch Lakes</p>		<p>12/30/2019</p>	

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<p>Warm-water Macrophyte Point-intercept Survey - Big Chetac Lake - Sawyer County, Wisconsin</p>	<p>As a prerequisite to updating this plan in 2018 and to compare how the lakes vegetation had changed since the last point-intercept survey in 2014, the BCCLA, Lake Education and Planning Services, LLC, and the Wisconsin Department of Natural Resources authorized a full point-intercept survey for all aquatic plants from July 28-29, 2017. During the survey, we found macrophytes growing at 201 sites (20.7% of the entire lake bottom and in 57.1% of the 11.5 littoral zone). This was a moderately significant increase (p=0.002) from the 148 sites with plants in 2014 (15.3% of the lake and 30.0% of the then 14.5ft littoral zone), and a near return to the 269 points with vegetation (27.7% of the lake/68.6% of the then 12.5ft littoral zone) we documented during the original 2008 survey.</p>	<p>Matthew S. Berg, Endangered Resource Services, LLC</p>	<p>7/29/2017</p>	
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Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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