

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: AEPP48216
Name: CROOKED LAKES AREA LAKES PRTCTN & REHAB DIST: Crooked Lake Management Plan
Type: Aquatic Invasives Grant
Subtype: Aquatic Invasives Education
Status: COMPLETE
Start Date: 02/15/2016
End Date: 06/30/2019
Purpose: The Crooked Lake Area Lakes P & R District is sponsoring a project to develop a Comprehensive Lake Management Plan consistent with NR 198.43 for Crooked Lakes in Oconto County.

Project final deliverables include: 1)Water Quality and Watershed Analysis, 2)Fishery Data Compilation and Integration, 3)Shoreline Course Woody Habitat Assessment, 4)Aquatic/ Current Aquatic Plant Community Assessment, 5)Aquatic Invasive Aquatic Plant Surveys, 6) Completion of a WDNR \2013Approved Stakeholder Survey, 7)Public Participation in the Planning Process, 8)Clean Boats Clean Waters

Specific project activities include:

- 1) Water quality using WisCALM comparisons <http://dnr.wi.gov/topic/surfacewater/assessments.html>
- 2) Watershed analysis completed primarily with WiLMS and predictive equations.
- 3) Fishery compilation and integration within management plan
- 4) Conduct Point Intercept survey consistent with DNR Protocol <http://www.uwsp.edu/cnr-ap/UWEXLakes/Documents/ecology/Aquatic%20Plants/PI-Protocol-2010.pdf> 30
- 5) Professional Zebra Mussel monitoring
- 6) Completion of WDNR-approved social survey using DNR protocol <http://intranet.dnr.state.wi.us/int/es/science/socialmanual.htm>
- 7) Clean Boat Clean Water Inspections with a minimum of 200 hours per boat landing
- 8) Shoreline and course Woody Habitat Assessment per DNR protocol.

Special Conditions:

- 1) CLMN efforts should not be duplicated and these data shall be included in the trends analysis and final reporting;
- 2) All data CBCW and CLMN shall be entered into the SWIMS database

Objective:

Comments: Grantee is CROOKED LAKES AREA LAKES PRTCTN & REHAB DIST

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Crooked Lake Area Lakes P & R	GRANT_RECIPIENT	ACTIVE	06/01/2016		Crooked Lake Area Lakes P & R District	
Hoyman, Tim	LEAD_EQUIPMENT	ACTIVE	06/02/2016		Onterra, LLC	
State Lab of Hygiene,	LABORATORY	ACTIVE	06/02/2016		State Lab of Hygiene	
Van Campenhout, Jayne	APPLICANT	ACTIVE	06/02/2016			

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start	End Date	Status
Grant Awarded	Gilkey Lake	02/15/2016	06/30/2018	PROPOSED
Grant Awarded	Bass Lake	02/15/2016	06/30/2018	COMPLETE
Grant Awarded	Crooked Lake	02/15/2016	06/30/2018	APPROVED

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Monitoring Stations

Station ID	Name	Comments
453282	Bass Lake - Deep Hole	
433072	Crooked Lake - South Bay-Deep Hole	
433082	Gilkey Lake - Deep Spot	

Assessment Units

WBIC	Segment	Local Name	Official Name
462000	1	Crooked Lake	Crooked Lake
462300	1	Gilkey Lake	Gilkey Lake
462400	1	Bass Lake	Bass 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
04/26/2016 11:32	COMPLETE	GCLS	433082	Gilkey Lake - Deep Spot
04/26/2016 11:51	COMPLETE	CCLB	433072	Crooked Lake - South Bay-Deep Hole
04/26/2016 11:51	COMPLETE	CCLS	433072	Crooked Lake - South Bay-Deep Hole
04/26/2016 12:17	COMPLETE	BCLS	453282	Bass Lake - Deep Hole
06/30/2016 09:50	COMPLETE	GCLS	433082	Gilkey Lake - Deep Spot
06/30/2016 10:20	COMPLETE	CLS	433072	Crooked Lake - South Bay-Deep Hole
06/30/2016 11:15	COMPLETE	BCLS	453282	Bass Lake - Deep Hole
07/25/2016	COMPLETE		453282	Bass Lake - Deep Hole
07/25/2016 13:00	COMPLETE	GCLS	433082	Gilkey Lake - Deep Spot
07/25/2016 13:30	COMPLETE	CCLB	433072	Crooked Lake - South Bay-Deep Hole
07/25/2016 13:30	COMPLETE	CCLS	433072	Crooked Lake - South Bay-Deep Hole
07/25/2016 15:30	COMPLETE	BCLS	453282	Bass Lake - Deep Hole
08/21/2016 10:00	COMPLETE	BCLS	453282	Bass Lake - Deep Hole
08/21/2016 10:05	COMPLETE	CCLS	433072	Crooked Lake - South Bay-Deep Hole
08/21/2016 10:10	COMPLETE	GCLS	433082	Gilkey Lake - Deep Spot
08/25/2016 11:00	COMPLETE	GCLS	433082	Gilkey Lake - Deep Spot
08/25/2016 11:40	COMPLETE	BCLS	453282	Bass Lake - Deep Hole
11/07/2016 10:15	COMPLETE	GCLS	433082	Gilkey Lake - Deep Spot
11/07/2016 11:20	COMPLETE	CCLB	433072	Crooked Lake - South Bay-Deep Hole
11/07/2016 11:20	COMPLETE	CCLS	433072	Crooked Lake - South Bay-Deep Hole
11/07/2016 12:15	COMPLETE	BCLS	453282	Bass Lake - Deep Hole
02/13/2017 12:15	COMPLETE	GCLS	433082	Gilkey Lake - Deep Spot
02/13/2017 12:45	COMPLETE	BCLS	453282	Bass Lake - Deep Hole
02/13/2017 13:00	COMPLETE	CCLB	433072	Crooked Lake - South Bay-Deep Hole
02/13/2017 13:00	COMPLETE	CCLS	433072	Crooked Lake - South Bay-Deep Hole

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Documents

Title	Description	Author	Published	Comments
Crooked Lake Area Lakes, Oconto County, Comprehensive Management Plan	Crooked Lake, Oconto County, is a 166-acre drainage lake with a max depth of 37 feet and a mean depth of 10 feet. Gilkey and Bass Lakes, 23 and 14 acres, are smaller lakes directly connected to Crooked Lake. At the time of this report, the most current orthophoto (aerial photograph) was from the National Agriculture Imagery Program (NAIP) collected in June 2015. Based upon heads-up digitizing the water level from that photo, the lake was determined to be the listed acres. Gilkey Lake has a max depth of 6 feet and a mean depth of 3 feet. Bass Lake has a max depth of 11 feet and a mean depth of 4 feet. All three lakes have a relatively small watershed when compared to the size of the lakes. Both Gilkey and Bass Lakes contain 24 native plant species, of which water bulrush and fern-leaf pondweed is the most common plant, respectively. Crooked Lake contains 37 native plant species, of which common waterweed is the most common plant. Two exotic plant species are known to exist in the system.	Onterra LLC	12/01/2018	
Surface Water Grant Project Lab Costs	Lab costs for the grant received by Crooked Lake Area Lakes P & R District.			

Budget

Combined Budgets:
Combined SLOH:
Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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