Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: LPL-1518-13

Name: BLAKE LAKE PROTECTION & REHABILITATION DIST: Comprehensive Lake Planning & Paleolimnology Project

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 4/1/2013

End Date: 12/31/2016

Purpose: The Blake Lake P&R District is sponsoring a project to develop a comprehensive lake management plan including public participation / meetings.

The final deliverables include agendas and minutes for planning meetings, and a lake management plan that includes methodologies, results, and management alternatives discussion with an implementation plan.

Specific project tasks include: 1) Historic watershed land use assessment & loadings; 2) Identify runoff patterns & delineate environmentally sensitive areas in the watershed; 3) Sediment core collection & analysis; 4) Planning committee meetings; 5) Lake Management Plan development.

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 Lake Coordinator.

Objective:

Comments: Grantee is BLAKE LAKE PROTECTION & REHABILITATION DIST

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Big Blake Lake P & R District,	GRANT_RECIPIENT	ACTIVE	6/13/2013		Big Blake Lake P & R District	

Project Statuses

Date	Reported By	Status	Comments

Actions

Action	Detailed Description	Start Date	End Date	Status
Runoff Evaluation		4/1/2013	12/31/2016	PROPOSED
Lakes Planning Grant		4/1/2013	12/31/2016	PROPOSED
Information and Education		4/1/2013	12/31/2016	PROPOSED
Watershed Mapping or Assessment		4/1/2013	12/31/2016	PROPOSED
Monitor Water Quality or Sediment		4/1/2013	12/31/2016	PROPOSED
Informational Meetings		4/1/2013	12/31/2016	PROPOSED

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Grant Awarded	The Blake Lake P&R District is sponsoring a project to develop a comprehensive lake management plan including public participation / meetings. The final deliverables include agendas and minutes for planning meetings, and a lake management plan that includes methodologies, results, and management alternatives discussion with an implementation plan. Specific project tasks include: 1) Historic watershed land use assessment & loadings; 2) Identify runoff patterns & delineate environmentally sensitive areas in the watershed; 3) Sediment core collection & analysis; 4) Planning committee meetings; 5) Lake Management Plan development.	4/1/2013	12/31/2016	COMPLETE
Lake Management Plan Development		4/1/2013	12/31/2016	PROPOSED

Monitoring Stations

Station ID	Name	Comments

Assessment Units

WBIC	Segment	Local Name	Official Name
2626900	3	Straight River	Straight River
2627000	1	Big Blake Lake (Blake)	Big Blake Lake
2627300	1	Little Blake Lake	Little Blake Lake

Lab Account Codes

Account Code	Description	Start Date	End Date

Forms

Form Code	Form Name

Methods

Method Code	Method Description

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name

Documents

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Title	Description	Author	Published	Comments
A Paleolimnological Study of Big Blake Lake, Polk County, Wisconsin	With any lake management plan it is important to have a basic understanding of natural fluctuations within the system. Long-term water quality data sets on the order of 30 to 50 years are generally not available for most of the country and Big Blake Lake is no exception. Incomplete water quality data have been collected intermittently from Big Blake Lake since 2000. Most of the data sets do not include chlorophyll a or total phosphorus TSI averages and there are large stretches of time where no data have been collected. The most recent data suggest that Big Blake Lake is eutrophic; however, the large lag times between sampling events make these data inconclusive. The most recent water quality study on Big Blake Lake was completed in 2004 by Aquatic Engineering, Inc. to determine management recommendations to protect and improve water quality on Big Blake Lake. Northern Lake Service, Inc. also completed a study in 1979 and the DNR Office of Inland Lake Renewal completed a study in 1981. The Wisconsin state phosphorus standard of 30 μg/L was exceeded in both of these reports. The highest readings of total phosphorus in the reports were 69 μg/L and 95 μg/L. The highest reading for chlorophyll a concentrations was 55 μg/L (Williamson, unpublished data). The 1981 DNR Office of Inland Lake Renewal study further concluded that sediment was a major source of the total phosphorus load to Big Blake Lake.	Jeremy Williamson, Mark Edlund, Joy Hobbs, David Burge	8/1/2016	
Big Blake Lake Appendices J-M	The third and final installment of the LMP appendices from Big Blake Lake.		1/1/2017	
Big Blake Lake LMP	The LMP for Big Blake Lake in Polk County Wisconsin.	Katelin Anderson & Jeremy Williamson	1/1/2017	
Big Blake Lake LMP Appendices A-H	Part one of LMP Appendices from Big Blake Lake.		1/1/2017	
Big Blake Lake LMP Appendix I	Part two of the LMP Appendices from Big Blake Lake.		1/1/2017	
Big Blake Managment Plan Approval Letter	Approval letter for the Big Blake Lake management plan.	Alex Smith	9/7/2017	

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Budget

Combined Budgets:

Combined WSLH:

Combined Total: $0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date