

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPL-1571-15

Name: BUFFALO LAKE PROTECTION & REHAB DISTRICT: Buffalo Lake Mgmt Plan Update

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 2/15/2015

End Date: 12/31/2017

Purpose: Buffalo Lake Protection and Rehabilitation District is sponsoring a large scale planning grant focused on updating and rewriting sections of their lake management plan following a 2 year drawdown of the lake to replace the dam.

Project activities include:

- \2022 Phosphorus loading using WiLMS
- \2022 Immediate shoreline survey
- \2022 Course woody debris survey
- \2022 Water quality assessment
- \2022 Various aquatic plant surveys
- \2022 Stakeholder survey

Project deliverables include:

Comprehensive Lake Management Plan including the following:

- \2022 Phosphorus loading estimates from watershed (WiLMS)
 - o Scenarios developed to assess how changes in watershed would impact water quality
 - o Internal load estimates
- \2022 Immediate shoreline survey
 - o Map delineating the shoreline from water\2019s edge to about 35\2019 shoreward
 - o Coarse woody debris map
- \2022 Water quality assessment
 - o Sample collection 6 times per year following WDNR long term trend monitoring protocol
 - o Chemistry analysis
 - o Dissolved oxygen and temperature profiles
 - o Carlson TSI
- \2022 Aquatic plant surveys
 - o Early season AIS survey
 - o Point Intercept survey
 - o EWM peak-biomass survey
 - o Aquatic plant community mapping survey
- \00BF Maps/raw data for all surveys
 - o Comparison with past surveys
- \2022 Web-based stakeholder survey
 - o Survey results
- \2022 Work with the lake stakeholders to possibly develop a water level management plan
- \2022 Management, protection, enhancement alternatives and recommendations
 - o Tangible
 - o Realistic
 - o Including possible funding sources

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.

Final plan needs Department review and approval.

Objective:

Comments: Grantee is BUFFALO LAKE PROTECTION & REHAB DISTRICT

7/5/2024

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Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Buffalo Lake P & R District,	GRANT_RECIPIENT	ACTIVE	2/15/2015		Buffalo Lake P & R District	
Hanke, Todd	INVESTIGATOR	ACTIVE	2/15/2015		Onterra, LLC	
Henrigillis, Emily	TEAM_MEMBER	ACTIVE	7/21/2016		Fox-Wolf Watershed Alliance	
Johnson, Theodore M	COORDINATOR	ACTIVE	2/15/2015		Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	Buffalo Lake Protection and Rehabilitation District is sponsoring a large scale planning grant focused on updating and rewriting sections of their lake management plan following a 2 year drawdown of the lake to replace the dam.	2/15/2015	12/31/2017	COMPLETE
Shoreland Monitoring, Assessment, Inventory	Shoreland Monitoring, Assessment or Inventory	2/15/2015	12/31/2017	PROPOSED

Monitoring Stations

Station ID	Name	Comments
393122	Buffalo Lake - Deep Hole	
10014660	Buffalo Lake - Deepest Spot	
10044891	Horseshoe Lake Tributary - Along road on south side of lake	
493073	Lotus Lake - Deep Hole	
10041328	Lotus Lake Outlet	
10038512	Unnamed Trib to Lotus Lake - Upper Site Near Road 60ft DS	

Assessment Units

WBIC	Segment	Local Name	Official Name
168000	1	Fox River At Buffalo Lake	Buffalo Lake
2616900	1	Lotus Lake	Lotus Lake
2630100	1	Horseshoe Lake	Horseshoe Lake
5006441	1	Lotus Lake Outlet	Unnamed
5006441	2	Unnamed Trib to Lotus Lake	Unnamed

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Lab Account Codes

Account Code	Description	Start Date	End Date
LM021	LAKE MANAGEMENT PLANNING GRANTS	3/26/2014	6/30/2015
LM022	LAKE MANAGEMENT PLANNING GRANTS	3/27/2015	6/30/2016

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
4/15/2015 9:45	COMPLETE	BLS	393122	Buffalo Lake - Deep Hole
6/15/2015 10:45	COMPLETE	BLS	10014660	Buffalo Lake - Deepest Spot
7/20/2015 10:50	COMPLETE	LL-OL-JY	10041328	Lotus Lake Outlet
7/20/2015 11:33	COMPLETE	LL-DH-JY	493073	Lotus Lake - Deep Hole
7/20/2015 11:50	COMPLETE	LL-IN-JY	10038512	Unnamed Trib to Lotus Lake - Upper Site Near Road 60ft DS
7/21/2015 13:00	COMPLETE	BLS	10014660	Buffalo Lake - Deepest Spot
8/17/2015	COMPLETE		10014660	Buffalo Lake - Deepest Spot
8/17/2015 14:15	COMPLETE	BLS	10014660	Buffalo Lake - Deepest Spot
10/14/2015 9:20	COMPLETE	BLS	10014660	Buffalo Lake - Deepest Spot
2/17/2016 11:20	COMPLETE	BLS	10014660	Buffalo Lake - Deepest Spot

Documents

Title	Description	Author	Published	Comments
Buffale Lake Comprehensive Lake Management Plan		Brenton Butterfield		
Buffalo Lake Comprehensive Lake Management Plan		Brenton Butterfield	3/1/2018	
Buffalo Lake Comprehensive Lake Management Plan Appendices		Brenton Butterfield	3/1/2018	

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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