

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPL-946-04

Name: BONE LAKE MANAGEMENT DISTRICT: Bone Lake Aquatic Plant Monitoring Project

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 4/1/2004

End Date: 12/31/2005

Purpose: The Bone Lake Management District will assess and characterize the current aquatic plant community structure, littoral aquatic macroinvertebrate community structure, and shoreline land use for Bone Lake in Polk County. An aquatic plant management strategy will be developed and incorporated into the Bone Lake Management Plan. The strategy will provide baseline data for the development of an aquatic plant management plan. All aquatic plant transect data including reporting the Relative Abundance & Frequency of Occurrence and other basic statistics including the Floristic Quality Index, will be summarized and reported in table format in the final report.

Aquatic macroinvertebrate monitoring will be conducted twice in 2004 to assess possible impacts of monotypic aquatic plant beds on the density and diversity of aquatic insects. The macroinvertebrate community structure for all samples shall be broken down to Lowest Practical Taxonomic Unit LPTU using Hilsenhoff's most current taxonomic key for each habitat type (treated vs. untreated for the following: high density crispus beds, mixed beds, and native beds). A unit independent measure of the variability of samples coming from each specific habitat type (six in all) using the coefficient of variation reported in table format shall also be provided.

The methodology for the shoreline/riparian zone survey shall be submitted to Jim Cahow, by June 15, 2004 and summarized in the project final report. Recommendations to reduce shoreline development impacts to the lake will be made to the Lake District and property owners.

Objective:

Comments: Grantee is BONE LAKE MANAGEMENT DISTRICT

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Bone Lake Management District,	GRANT_RECIPIENT	ACTIVE	4/1/2004	12/31/2005	Bone Lake Management District	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start Date	End Date	Status
Lake Management Plan Development		4/1/2004	12/31/2005	PROPOSED

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Grant Awarded	<p>The Bone Lake Management District will assess and characterize the current aquatic plant community structure, littoral aquatic macroinvertebrate community structure, and shoreline land use for Bone Lake in Polk County. An aquatic plant management strategy will be developed and incorporated into the Bone Lake Management Plan. The strategy will provide baseline data for the development of an aquatic plant management plan. All aquatic plant transect data including reporting the Relative Abundance & Frequency of Occurrence and other basic statistics including the Floristic Quality Index, will be summarized and reported in table format in the final report.</p> <p>Aquatic macroinvertebrate monitoring will be conducted twice in 2004 to assess possible impacts of monotypic aquatic plant beds on the density and diversity of aquatic insects. The macroinvertebrate community structure for all samples shall be broken down to Lowest Practical Taxonomic Unit LPTU using Hilsenhoff's most current taxonomic key for each habitat type (treated vs. untreated for the following: high density crispus beds, mixed beds, and native beds).</p>	4/1/2004		COMPLETE
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Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
2628100	1	Bone Lake T35n R16w S06	Bone 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	Method 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
2004 Bone Lake Aquatic Plant Survey Technical Report and Restoration Plan	Plant Survey	N. D. Strasser, and J. E. Britton, Aquatic Engineering	2/28/2005	

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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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