

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPL-1131-07

Name: TOWN OF PRESQUE ISLE: Big Lake Limnological Baseline Study & APM Plan

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 10/1/2006

End Date: 12/31/2012

Purpose: The Town of Presque Isle is sponsoring a large scale lake planning grant to study Big Lake in Vilas County with a study completion date of June 30, 2008. The Big Lake Property Owners Association is a project partner. The project will focus on developing an Aquatic Plant Management (APM) Plan.

Project activities include:

- 1) Data review and project kick-off meeting, one site visit to discuss goals, and project final meeting
- 2) Develop public questionnaire and prepare educational article
- 3) Point-intercept (PI) survey of aquatic plants with 2 sets of pressed plants
- 4) Aquatic plant community mapping and analysis
- 5) Water quality sampling - secchi through citizen lake monitor and P, Chla, DO, and Temp during aquatic plant sampling
- 6) Watershed and land use analysis
- 7) Develop APM Plan

Project deliverables include:

- 1) Public questionnaire and educational article
- 2) PI data and aquatic plant community and watershed maps
- 3) 2 sets of pressed aquatic plants (one set for lake group and second for Dept)
- 4) Water quality sampling results
- 5) APM Plan

Specific conditions for this project:

- Draft of public questionnaire should be submitted to Lakes Management Coordinator for review before sending to public
- APM Plan needs Dept review and approval

WDNR Lakes Management Coordinator will be provided with an electronic (pdf or word) and hard copy of APM Plan, educational article, public questionnaire, data from watershed and land use analysis, data from PI survey, data from water quality sampling, all maps from project, and a set of pressed aquatic plants.

Objective:

Comments: Grantee is TOWN OF PRESQUE ISLE

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Town of Presque Isle,	GRANT_RECIP ENT	ACTIVE	10/1/2006	12/31/2012	Town of Presque Isle	

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 Town of Presque Isle is sponsoring a large scale lake planning grant to study Big Lake in Vilas County with a study completion date of June 30, 2008. The Big Lake Property Owners Association is a project partner. The project will focus on developing an Aquatic Plant Management (APM) Plan.</p> <p>Project activities include:</p> <ol style="list-style-type: none"> 1) Data review and project kick-off meeting, one site visit to discuss goals, and project final meeting 2) Develop public questionnaire and prepare educational article 3) Point-intercept (PI) survey of aquatic plants with 2 sets of pressed plants 4) Aquatic plant community mapping and analysis 5) Water quality sampling - secchi through citizen lake monitor and P, Chla, DO, and Temp during aquatic plant sampling 6) Watershed and land use analysis 7) Develop APM Plan <p>Project deliverables include:</p> <ol style="list-style-type: none"> 1) Public questionnaire and educational article 2) PI data and aquatic plant community and watershed maps 3) 2 sets of pressed aquatic plants (one set for lake group and second for Dept) 4) Water quality sampling results 5) APM Plan. 	10/1/2006		COMPLETE

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Grant Awarded	<p>The Town of Presque Isle is sponsoring a large scale lake planning grant to study Big Lake in Vilas County with a study completion date of June 30, 2008. The Big Lake Property Owners Association is a project partner. The project will focus on developing an Aquatic Plant Management (APM) Plan.</p> <p>Project activities include:</p> <ol style="list-style-type: none"> 1) Data review and project kick-off meeting, one site visit to discuss goals, and project final meeting 2) Develop public questionnaire and prepare educational article 3) Point-intercept (PI) survey of aquatic plants with 2 sets of pressed plants 4) Aquatic plant community mapping and analysis 5) Water quality sampling - secchi through citizen lake monitor and P, Chla, DO, and Temp during aquatic plant sampling 6) Watershed and land use analysis 7) Develop APM Plan <p>Project deliverables include:</p> <ol style="list-style-type: none"> 1) Public questionnaire and educational article 2) PI data and aquatic plant community and watershed maps 3) 2 sets of pressed aquatic plants (one set for lake group and second for Dept) 4) Water quality sampling results 5) APM Plan. 	10/1/2006	6/30/2011	COMPLETE
Comprehensive Planning Studies	14416814	10/1/2006		PROPOSED

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
2334500	1	Rice Creek	Rice Creek
2334700	1	Big Lake T42n R06e S04	Big Lake

Lab Account Codes

Account Code	Description	Start Date	End Date
LM016	Lake Planning Lab Services	1/1/1960	12/31/2099
LM017	LAKE MANAGEMENT PLANNING GRANTS	1/1/1960	12/31/2099
LM018	LAKE MANAGEMENT PLANNING GRANTS	1/1/1960	12/31/2099

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
Aquatic plant survey - Big Lake, Vilas County 8/7/2007 - 8-8/2007			8/8/2007	
Aquatic plant survey - Little Crab Lake, Vilas County 8/6/2007			8/6/2007	
Report - Aquatic Plant Management Plan - Big Lake	<p>The Presque Isle Town Lakes Committee (PITLC) was formed in 2005 to address resource management concerns in lakes within the Town of Presque Isle. The Committee has been active in a number of lake management activities on Big Lake including: aquatic plant management, water quality sampling, invasive species sampling, and community education activities. The Committee contracted Northern Environmental (now Bonestroo, Inc.) to help develop an aquatic plant management (APM) plan for Big Lake. The Big Lake APM Plan includes a review of available lake information, an aquatic plant survey, and an evaluation of feasible physical, mechanical, biological, and chemical management alternatives if deemed appropriate. The APM plan also recommends specific prevention activities for aquatic invasive species (AIS) in the lake system; which are discussed below. Northern Environmental completed an aquatic plant survey on Big Lake in 2007, which identified 28 aquatic plant species. The most abundant aquatic plants identified during the survey coontail (<i>Ceratophyllum demersum</i>), bushy pondweed (<i>Najas flexilis</i>), wild celery (<i>Vallisneria americana</i>), and fern pondweed (<i>Potamogeton robbinsii</i>). The Floristic Quality Index (FQI) is an index that uses the aquatic plant community as an indicator of lake health. Big Lake exhibited an FQI of 33.14, higher than the state northern ecoregion average (24.3).</p>	Bonestroo	9/30/2011	

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Report - Aquatic Plant Management Plan - Little Crab Lake	<p>The Presque Isle Town Lakes Committee (PITLC) was formed in 2005 to address resource management concerns in lakes within the Town of Presque Isle. The Committee has been active in a number of lake management activities on Little Crab Lake including: aquatic plant management, water quality sampling, invasive species sampling, and community education activities. The Committee contracted Northern Environmental (now Bonestroo, Inc.) to help develop an aquatic plant management (APM) plan for Little Crab Lake. The Little Crab Lake APM Plan includes a review of available lake information, an aquatic plant survey, and an evaluation of feasible physical, mechanical, biological, and chemical management alternatives if deemed appropriate. The APM plan also recommends specific prevention activities for aquatic invasive species (AIS) in the lake system; which are discussed below. Northern Environmental completed an aquatic plant survey on Little Crab Lake in 2007, which identified 15 aquatic plant species. The most abundant aquatic plants identified during the survey nitella (<i>Nitella</i> sp.), common watermoss (<i>Fontinalis antipyretica</i>), and watershield (<i>Brasenia schreberi</i>). The Floristic Quality Index (FQI) is an index that uses the aquatic plant community as an indicator of lake health. Little Crab Lake exhibited an FQI of 25.98, slightly higher than the state northern ecoregion average (24.3).</p>	Bonestroo	9/30/2011	
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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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