

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** ACEI-046-08  
**Name:** BIG SAND LAKE PROPERTY OWNERS ASSOCIATION: Big Sand Lake Restoration/EWM Control  
**Type:** Aquatic Invasives Grant  
**Subtype:** Aquatic Invasives Control  
**Status:** COMPLETE  
**Start Date:** 04/01/2008  
**End Date:** 12/31/2009  
**Purpose:** Big Sand Lake Property Owners Association is sponsoring an AIS ACEI grant on Big Sand Lake in Vilas County to be completed by December 31, 2008. This is a five year project that will focus on EWM management, and AIS education, prevention and monitoring. The Association will submit future ACEI grants as needed to continue the five year project. The goal is to have an 80% reduction on the EWM acreage and frequency of occurrence within vegetated areas of the Point-Intercept survey. This will allow Big Sand Lake Property Owners Association to continue management of AIS with minimal state financial assistance.

Project activities include: 1) Annual manual removal and chemical treatments of EWM; 2) Annual Pre and Post treatment monitoring and analysis; 3) Annual curly-leaf pondweed assessment; 4) Conduct chemical residual and DO monitoring; 5) Annual volunteer AIS and water quality monitoring; 6) Clean EWM fragments from boat landing; 7) AIS educational and partnering activities; 8) Recruit volunteers and implement a CB/CW program; 9) Entry of inspection forms 3200-120 and monitoring forms onto Dept website; 10) Develop annual project report and a final report.

Project deliverables include: 1) Chemical and manual control of EWM; 2) Pre and post treatment and curly-leaf pondweed survey data; 3) Completed entry of inspection 3200-120 and monitoring forms onto Dept website; 4) AIS educational, prevention and monitoring activities; 5) Water quality, residual and DO monitoring data; 6) Final report summarizing EWM management during project and future EWM management suggestions, CB/CW activities, AIS monitoring and AIS educational activities.

Specific Conditions for this project: Final report needs Dept review and approval.

WDNR Lakes Management Coordinator will be provided with an electronic (pdf or word) and hard copy of final report, all annual reports, pre and post treatment survey data, and samples of educational and outreach products.

**Objective:**

**Comments:** Grantee is BIG SAND LAKE PROPERTY OWNERS ASSOCIATION

**Outcome:**

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Asplund, Timothy R	PROJECT_LEAC	COMPLETE	04/01/2008	12/31/2009	Wisconsin DNR	
Big Sand Lake Property Own	GRANT_RECIIII	COMPLETE	04/01/2008	12/31/2009	Big Sand Lake Property Owners Association	

### Project Statuses

Date	Reported By	Status	Comments
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### Actions

Action	Detailed Description	Start	End Date	Status
Information and Education		04/01/2008	12/31/2009	PROPOSED
Grant Awarded	ACEI-046-08Big Sand Lake Restoration/EWM Control	04/01/2008	12/31/2008	COMPLETE
Monitor Pre and Post Treatment		04/01/2008	12/31/2009	PROPOSED
Monitor Water Quality or Sediment		04/01/2008	12/31/2009	PROPOSED
Control Invasive Species		04/01/2008	12/31/2009	PROPOSED

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Action	Detailed Description	Start	End Date	Status
Grant Awarded	ACEI-046-08	04/01/2008	12/31/2009	COMPLETE
Monitor Invasive Species		04/01/2008	12/31/2009	PROPOSED
Watercraft Inspections Clean Boats, Clean Waters		04/01/2008	12/31/2012	PROPOSED

### Monitoring Stations

Station ID	Name	Comments
10029102	Big Sand Lake (Residual Study Point 1)	
10029111	Big Sand Lake (Residual Study Point 10)	
10029103	Big Sand Lake (Residual Study Point 2)	
10029104	Big Sand Lake (Residual Study Point 3)	
10029105	Big Sand Lake (Residual Study Point 4)	
10029106	Big Sand Lake (Residual Study Point 5)	
10029109	Big Sand Lake (Residual Study Point 6)	
10029108	Big Sand Lake (Residual Study Point 7)	
10029107	Big Sand Lake (Residual Study Point 8)	
10029110	Big Sand Lake (Residual Study Point 9)	

### Assessment Units

WBIC	Segment	Local Name	Official Name
1602600	1	Big Sand Lake	Big Sand 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
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### Documents

Title	Description	Author	Published	Comments
Aquatic Plant Management Report Big Sand Lake Phelps, Wisconsin	Big Sand Lake is a 1,408 acre drainage lake located in northern Vilas. Big Sand Lake exhibits good water clarity and according to the Wisconsin Trophic State Index is an oligotrophic lake. Eurasian water-milfoil ( <i>Myriophyllum spicatum</i> - EWM) and aquatic invasive specie (AIS) is confirmed on Big Sand Lake. Lake residents have become concerned about the presence of EWM and other AIS in the aquatic plant community of Big Sand Lake. In 2008 EWM was actively managed on Big Sand Lake	Northern Environmental Technologies Incorporated	02/19/2009	

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Title	Description	Author	Published	Comments
Aquatic Plant Management Report Final Report	<p>with a treatment of 127.6 acres of the total 309 acres treated. Northern Environmental completed pre and post-treatment surveys in 2008 along with fall EWM mapping surveys in 2007 – 2008. The fall surveys are used to delineate any changes in EWM location, map new areas, and create potential treatment areas for the following year.</p> <p>Big Sand Lake is a 1,408 acre drainage lake located in northern Vilas. Environmental Big Sand Lake exhibits good water clarity and according to the Wisconsin Trophic State Index is an oligotrophic lake. Eurasian water-milfoil (<i>Myriophyllum spicatum</i> - EWM) and aquatic invasive specie (AIS) is confirmed on Big Sand Lake. Lake residents have become concerned about the presence of EWM and other AIS in the aquatic plant community of Big Sand Lake. In 2008 EWM was actively managed on Big Sand Lake with a treatment of 127.6 acres of the total 309 acres treated. Northern Environmental completed pre and post-treatment surveys in 2008 along with fall EWM mapping surveys in 2007 – 2008. The fall surveys are used to delineate any changes in EWM location, map new areas, and create potential treatment areas for the following year.</p>	Northern Environmental	02/19/2009	
MONITORING STATION MAP - BIG SAND LAKE GRANT 2008		Jennifer Filbert	08/26/2008	

**Budget**

Combined Budgets:  
 Combined SLOH:  
 Combined Total:

**Funding**

Organization	Source	Type	Amount	Start Date	End Date
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