

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** LPL-1220-08  
**Name:** PIKE LAKE PROTECT & REHAB DISTRICT: Pike Lake Flow Diversion  
**Type:** Lakes Grant  
**Subtype:** Large Scale Lake Planning  
**Status:** COMPLETE  
**Start Date:** 04/01/2008  
**End Date:** 12/31/2009  
**Purpose:** The Pike Lake Rehabilitation District will hire a contractor to develop alternatives to reduce phosphorus inputs into Pike Lake. The project will evaluate alternatives for flow diversion of the Rubicon River to replicate a more natural flow that existed prior to the urban development of Slinger. The final report will contain the following elements: 1) Summary of initial scoping meeting with DNR water management staff, 2) Review of USGS data survey on nutrient loading on the Rubicon, 3) Inspection and determination as to why previous design and channel plugs failed, 4) Identification of design parameters, to include low flows needed to reduce phosphorus inputs, discharge rate from wastewater treatment plants, high flow that must be stored, stream velocities during a range of flow conditions, land ownership potential construction sites and budget for construction, 5) Evaluation of alternatives such as: replace channel plugs in certain area, new channels, diversion pipe and extension of wastewater plant discharge further downstream, 6) Preparation of cost estimates for each alternative, 7) Results of citizen monitoring for TSI data, 8) Minutes from the public meeting regarding the findings of the study. Two paper copies and one electronic copy of the final plan will be provided to the department. Exact details for all deliverables are described in the project description of grant application.

**Objective:**  
**Comments:** Grantee is PIKE LAKE PROTECT & REHAB DISTRICT  
**Outcome:**  
**Study Design:**  
**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Pike Lake P & R District,	GRANT_RECIPII	ACTIVE	04/01/2008	12/31/2009	Pike Lake P & R District	

### Project Statuses

Date	Reported By	Status	Comments
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### Actions

Action	Detailed Description	Start	End Date	Status
Data analysis, report production		04/01/2008	12/31/2009	PROPOSED
Lakes Planning Grant		04/01/2008	12/31/2009	PROPOSED

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Action	Detailed Description	Start	End Date	Status
Grant Awarded	<p>The Pike Lake Rehabilitation District will hire a contractor to develop alternatives to reduce phosphorus inputs into Pike Lake. The project will evaluate alternatives for flow diversion of the Rubicon River to replicate a more natural flow that existed prior to the urban development of Slinger. The final report will contain the following elements: 1) Summary of initial scoping meeting with DNR water management staff, 2) Review of USGS data survey on nutrient loading on the Rubicon, 3) Inspection and determination as to why previous design and channel plugs failed, 4) Identification of design parameters, to include low flows needed to reduce phosphorus inputs, discharge rate from wastewater treatment plants, high flow that must be stored, stream velocities during a range of flow conditions, land ownership potential construction sites and budget for construction, 5) Evaluation of alternatives such as: replace channel plugs in certain area, new channels, diversion pipe and extension of wastewater plant discharge further downstream, 6) Preparation of cost estimates for each alternative, 7) Results of citizen monitoring for TSI data, 8) Minutes from the public meeting regarding the findings of the study.</p>	04/01/2008	12/31/2009	COMPLETE
Watershed Mapping or Assessment		04/01/2008	12/31/2009	PROPOSED
Informational Meetings		04/01/2008	12/31/2009	PROPOSED
Project Deliverable	<p>The final report will contain the following elements: 1) Summary of initial scoping meeting with DNR water management staff, 2) Review of USGS data survey on nutrient loading on the Rubicon, 3) Inspection and determination as to why previous design and channel plugs failed, 4) Identification of design parameters, to include low flows needed to reduce phosphorus inputs, discharge rate from wastewater treatment plants, high flow that must be stored, stream velocities during a range of flow conditions, land ownership potential construction sites and budget for construction, 5) Evaluation of alternatives such as: replace channel plugs in certain area, new channels, diversion pipe and extension of wastewater plant discharge further downstream, 6) Preparation of cost estimates for each alternative, 7) Results of citizen monitoring for TSI data, 8) Minutes from the public meeting regarding the findings of the study.</p>	04/01/2008	12/31/2009	PROPOSED
Monitor or Assess Watershed Condition		04/01/2008	12/31/2009	PROPOSED

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Grant Awarded	The Pike Lake Rehabilitation District will hire a contractor to develop alternatives to reduce phosphorus inputs into Pike Lake. The project will evaluate alternatives for flow diversion of the Rubicon River to replicate a more natural flow that existed prior to the urban development of Slinger. The final report will contain the following elements: 1) Summary of initial scoping meeting with DNR water management staff, 2) Review of USGS data survey on nutrient loading on the Rubicon, 3) Inspection and determination as to why previous design and channel plugs failed, 4) Identification of design parameters, to include low flows needed to reduce phosphorus inputs, discharge rate from wastewater treatment plants, high flow that must be stored, stream velocities during a range of flow conditions, land ownership potential construction sites and budget for construction, 5) Evaluation of alternatives such as: replace channel plugs in certain area, new channels, diversion pipe and extension of wastewater plant discharge further downstream, 6) Preparation of cost estimates for each alternative, 7) Results of citizen monitoring for TSI data, 8) Minutes from the public meeting regarding the findings of the study.	04/01/2008	12/31/2009	COMPLETE

### Monitoring Stations

Station ID	Name	Comments
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### Assessment Units

WBIC	Segment	Local Name	Official Name
858300	1	Pike Lake	Pike 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
Evaluation of Alternatives for Rubicon River Phosphorus		Hey and Associates, Inc.	02/01/2010	

## Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
Input Diversion				

### Budget

**Combined Budgets:**  
**Combined SLOH:**  
**Combined Total:**

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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