

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** NOR\_07\_CMP11  
**Name:** Lake Desair Alum Dosage Study - NOR 7\_11  
**Type:** Targeted Monitoring  
**Subtype:** Newly Proposed  
**Status:** COMPLETE  
**Start Date:** 07/01/2010  
**End Date:** 06/30/2011  
**Purpose:** Desair Lake Restoration, Inc. a 303(d) listed water for eutrophication, has worked closely with Barron County Soil and Water Conservation Department and DNR over several years to implement best management practices, including gabions and storm water detention ponds, to slow the flow and reduce sedimentation to the lake. In 2009, the lake group received a lake protection grant (LPT) to continue BMP implementation for external nutrient/sediment load reduction, including additional ponds, wetland and streambank restoration, rain gardens, and shoreline restoration. This lake restoration project and funding would determine the dosage, expenses, and implementation plan for an alum treatment to reduce internal loading.

Bill James, Army Corps of Engineers, has provided a proposal and cost estimate (attached) for the alum dosing study. Additional funds will be needed implementation plan. The dosing study will occur after the LPT-funded external load reduction BMPs are implemented when, anticipated in 2011. Depending on study results, dosing itself would not occur until 2012 at the earliest.

**Objective:** This project is necessary to build on the success of Desair Lake Restoration, Inc. and its partners at reducing the flow and nutrient inputs to the lake. An alum dosing study and implementation plan will provide information on the feasibility and alum treatment, and if feasible, the guidance for substantially reducing internal loading.

**Comments:** Project Category 4: New Projects (this is actually a Lake Restoration Projects, which is identified as Category 5 on page 8 of the special projects guidance document).

**Outcome:** Performance Measures: These are milestones that will be reported on in the Division Quarterly Report. Please estimate dates in a manner that encourages success.  
 1) Number of sample sites associated with the project.  
 Three  
 2) Number of sampling events associated with project.  
 One  
 3) Estimated date when sample collection will be complete.  
 6/30/2011  
 4) Estimated date when all data will be entered into appropriate database.  
 6/30/2011  
 5) Estimated date when final report will be complete.  
 6/30/2011

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Toshner, Pamela J	COORDINATOR	COMPLETE	07/01/2010	06/30/2011	Wisconsin DNR	

### Project Statuses

Date	Reported By	Status	Comments
03/04/2010	James Hansen	Proposed	
12/07/2010	MOLLI MACDONALD	Progress: 0-25% Complete	No stations of field work events associated with this project yet. Need January status update.
07/21/2011	Pamela Toshner	Progress: 0-25% Complete	
05/09/2012	Pamela Toshner	Active	This project is behind schedule because it took longer to implement lake protection grant-funded watershed BMPs than originally anticipated. Over the past couple years, stream restoration work has been completed with more to occur during

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Date	Reported By	Status	Comments
01/15/2013	Pamela Toshner	Complete	summer 2012. There will also be a substantial wetland restoration project in 2012. We are at the contracting (i.e. CRADA) stage with the Corps and plan to take the cores as soon as possible after the contract and final BMPs are completed. The new project completion/final reporting date is 12/31/2012. Project completed in 2012. Contract with UW-Stout to be paid in January 2013 by Carroll Schaal. Final report attached.

### Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	Three
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	One
3. Proposed Dates for Sample Collection	6/30/2011
4. List applicable databases and who will enter data?	Data will be collected and submitted by US Army Corps of Engineers. Report will be entered into SWIMS
5. Did you receive competitive projects funding in the previous year?	No
6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not?	
7. Reviewer Notes: Identify questions or issues with project (use during review period)	
8. Reviewer Decision: Is this project recommended for funding?	

### Actions

Action	Detailed Description	Start	End Date	Status
Monitor Targeted Area	The work plan proposal and funding would determine the alum dosage and expenses for a possible future alum treatment to reduce internal loading after external nutrient sources are addressed.	07/01/2010	06/30/2011	PROPOSED

### Monitoring Stations

Station ID	Name	Comments
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### Assessment Units

WBIC	Segment	Local Name	Official Name
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### 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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## Wisconsin Department of Natural Resources SWIMS Project Summary

### Documents

Title	Description	Author	Published	Comments
Alum Dosage Considerations for Lake Desair, WI		William F. James	10/24/2012	

### Budget

**Budget Description:**Budget for Lake Desair Alum Dosage Study - NOR 7\_11    **Start Date:** 07/01/2010    **End Date:** 06/30/2011

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	10	Hours	\$0.00	\$0.00	Time for project mgmt., including field visit, report review, and results communication.
LTE SAL	LTE Salary	0	Hours	\$13.00	\$0.00	
LTE FR	LTE Fringe				\$0.00	
LTE IND	LTE Indirect				\$0.00	
LTE TOT	LTE Total Cost				\$0.00	
SUPPLY	Supplies	0			\$0.00	
MILEAGE	Mileage	70	Miles	\$0.72	\$50.40	For travel to meetings
MEAL	Meals		Meals	\$9.00	\$0.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$50.40	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts	1		\$5,560.00	\$5,560.00	Contract cost with US Army Corps of Engineers (Bill James)
EQUIP	Equipment	0			\$0.00	
USGS	USGS Costs	0			\$0.00	
<b>TOTAL</b>	<b>Total Cost (excludes SLOH)</b>				<b>\$5,610.40</b>	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
<b>Total SLOH Lab Costs:</b>				\$0.00	
<b>Total Budget:</b>				\$5,610.40	
<b>Combined Budgets:</b>				\$5,610.40	
<b>Combined SLOH:</b>				\$0.00	
<b>Combined Total:</b>				\$5,610.40	

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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