

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** NOR\_04\_CMP08  
**Name:** NOR\_04\_08 - Rib Lake  
**Type:** TMDL/303d Projects  
**Subtype:** Identify Impaired Waters  
**Status:** COMPLETE  
**Start Date:** 07/01/2007  
**End Date:** 06/30/2008  
**Purpose:** Rib Lake, Roesler  
 Recent sediment sampling in Rib Lake found a substantial layer of petroleum product contaminated sediment off the mouth of Tannery Creek. The contaminated layer was distinctively blackened and had a petroleum product odor. It was about 1 foot thick and was overlain by about 1 foot of "cleaner" sediment. Additional monitoring is needed to determine the extent and nature of this contamination. Multiple sediment cores will be collected along several transects and visually examined to determine the distribution, depth and thickness of the contaminated layer. Representative cores will be saved for analysis. A three site composite of the contaminated layer will be developed for high, medium, and low areas of visually evident contamination. An additional composited sample will be developed for the overlying sediment layer from locations where it is less than 6 inches deep. A total of 4 samples will be analyzed. Sampling will be done by Craig Roesler with an LTE assistant during the winter of 2007-8.

**Objective:** To determine if this site should be added to the 303d list and to identify management options.

**Comments:** UW-26 (Upper Rib River)  
 Taylor  
 Rib Lake  
 Needs: methods

**Outcome:** This lake was not added to the 303(d) list.  
 If undisturbed, there is probably little movement of mercury, arsenic, copper and zinc out of the contaminated layer. It is currently capped with 1 ft or more of cleaner sediment. Overlying water depth is about 3-6 ft. Some disturbance by outboard motors and boat anchors may occur. An extreme windstorm could conceivably cause resuspension of the contaminants. If the lake level became lower, (the outlet dam has a 1 ft head) the potential for wind-induced resuspension would probably increase. Any sediment disturbing activities in the area should be avoided.

The most desirable solution would be the removal of the contaminated material. However, the cost of removal may be prohibitive. A total of about 7,767 yd<sup>3</sup> of material would need to be removed. There is some woody debris buried in the sediment, especially closest to the creek mouth, which might complicate sediment removal.

**Study Design:**  
**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Roesler, Craig P	COORDINATOR	COMPLETE	05/21/2007	01/15/2020	Wisconsin DNR	

### Project Statuses

Date	Reported By	Status	Comments
01/31/2011	Craig Roesler	Complete	Final Report uploaded into SWIMS

### Actions

Action	Detailed Description	Start	End Date	Status
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Action	Detailed Description	Start	End Date	Status
Monitor Water Quality or Sediment	Multiple sediment cores will be collected along several transects and visually examined to determine the distribution, depth and thickness of the contaminated layer. Representative cores will be saved for analysis. A three site composite of the contaminated layer will be developed for high, medium, and low areas of visually evident contamination. An additional composited sample will be developed for the overlying sediment layer from locations where it is less than 6 inches deep. A total of 4 samples will be analyzed.	07/01/2007	06/30/2008	COMPLETE

  

Details:	Parameter	Value/Amount	Units	Comments
	Temperature			
	Total Nitrogen			
	Total Phosphorus			
	Total Suspended Solids			

### Monitoring Stations

Station ID	Name	Comments
10022849	Rib Lake Sediment Sampling Site 14 (2008)	
10022851	Rib Lake Sediment Site 12 (2008)	
10022850	Rib Lake Sediment Site 17 (2008)	

### Assessment Units

WBIC	Segment	Local Name	Official Name
1451800	11	Big Rib River	Big Rib River
1469100	1	Rib Lake	Rib Lake
1469200	1	Unnamed Creek	Unnamed

### Lab Account Codes

Account Code	Description	Start Date	End Date
WT089	SPECIAL PROJECTS	07/01/2007	06/30/2008

### 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
03/21/2008	COMPLETE	RIB0.5	10022850	Rib Lake Sediment Site 17 (2008)
03/21/2008	COMPLETE	RIB0.5	10022850	Rib Lake Sediment Site 17 (2008)
03/21/2008	COMPLETE	RIB1.0	10022849	Rib Lake Sediment Sampling Site 14 (2008)
03/21/2008	COMPLETE	RIB1.0	10022849	Rib Lake Sediment Sampling Site 14 (2008)
03/21/2008	COMPLETE	RIB1.0-2.1	10022851	Rib Lake Sediment Site 12 (2008)
03/21/2008	COMPLETE	RIB2.1-3.4	10022851	Rib Lake Sediment Site 12 (2008)

## Wisconsin Department of Natural Resources SWIMS Project Summary

### Documents

Title	Description	Author	Published	Comments
Investigation of an Area of Contaminated Sediment in Rib Lake, Taylor County, December 2008		Craig Roesler	12/30/2008	
RIB LAKE MONITORING PROPOSAL FY08	Monitoring Proposal	Roesler, Craig	06/18/2007	

### Budget

**Combined Budgets:**

**Combined SLOH:**

**Combined Total:**

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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