

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** Lake St. Croix TMDL

**Name:** Lake St. Croix TMDL

**Type:** TMDL/303d Projects

**Subtype:** Implement TMDL

**Status:** ACTIVE

**Start Date:** 2/1/2007

**End Date:** 2/27/2015

**Purpose:** This TMDL is for Lake St. Croix on the St. Croix River, and is a joint submittal by both the Minnesota Pollution Control Agency (MPCA) and the Wisconsin Department of Natural Resources (WDNR).

On April 6, 2006, an agreement was signed by Sheryl Corrigan, Commissioner of the Minnesota Pollution Control Agency (MPCA) and Scott Hassett, Secretary, WDNR, committing their agencies to work cooperatively to achieve the 20-percent phosphorus reduction goal. This goal will form the basis for future TMDL and implementation efforts.

**Objective:** The TMDL sets goals for each watershed in the basin, based on the respective land cover and land uses practices. It also sets a cap on the amount of phosphorus that can be discharged each year by wastewater treatment plants serving communities and industries in the St. Croix Basin.

**Comments:** <http://www.pca.state.mn.us/publications/wq-b6-04.pdf>

**Outcome:** The key outcomes of these studies and this TMDL are as follows:

- (1) Lake St. Croix's total annual loading capacity needed to meet an in-lake total phosphorus water quality standard of 40 µg/L is 360 metric tons/yr.
- (2) The lake's "current" loading (using a 1990s baseline) is 460 metric tons/yr, meaning a 100 metric ton/yr reduction would be needed. However, this TMDL adopts a margin of safety and a reserve capacity which increases the needed load reduction to about 123 metric tons/yr. This equates to an overall needed phosphorus load reduction of 27 percent.

### Study Design:

**QA Measures:** The Total Maximum Daily Load, or TMDL report calls for a 38% reduction in the human-caused phosphorus carried to the rivers and streams of the basin, and eventually entering the St. Croix River and Lake St. Croix.

The monitoring goals determined by the St. Croix Basin Team include:

- (1) Determining nutrient and sediment concentration trends and loads for the main stem of the St. Croix River and Lake St. Croix.
- (2) Determine nutrient and sediment loads for the selected tributaries used to track progress on tributary nutrient-management goals.
- (3) Determine trends in biological indicators in Lake St. Croix, Lake Mallalieu, and at mainstem and tributary locations.
- (4) Provide information used in the development and calibration of main stem and tributary nutrient models.

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
BARTILSON, KATHY M	COORDINATOR	ACTIVE	2/1/2007	2/27/2015	Wisconsin DNR	
HAZUGA, MARK J	COORDINATOR	ACTIVE	9/25/2018		Wisconsin DNR	
Smith, Alex R	COORDINATOR	ACTIVE	9/25/2018		Wisconsin DNR	
Sorge, Patrick W	TEAM_MEMBER	INACTIVE	7/18/2016	9/1/2017	Wisconsin DNR	

### Project Statuses

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Date	Reported By	Status	Comments
8/23/2012	KATHY BARTILSON	Progress: 75-100% Complete	<p>The Lake St. Croix TMDL report went to public notice in January, with public hearings in Siren and Hudson on Jan. 31, 2012. Comments received from the public were addressed and appropriate revisions made to the TMDL.</p> <p>The TMDL was approved by EPA in August, and an Implementation Plan is being developed by a contractor through Minnesota Pollution Control Agency. Implementation efforts underway include formation of Farmer-led Councils in the predominantly ag-land use counties and citizen engagement training for partners.</p>
9/25/2018	Lisa Helmuth	Complete	Implementation Phase

### Actions

Action	Detailed Description	Start Date	End Date	Status
TMDL Implementation	Move the TMDL from draft to approved and begin implementation. The TMDL sets goals for each watershed in the basin, based on the respective land cover and land uses practices. It also sets a cap on the amount of phosphorus that can be discharged each year by wastewater treatment plants serving communities and industries in the St. Croix Basin.	2/1/2007	2/27/2015	IN_PROGRESS
TMDL Development	TMDL Development for Lake St. Croix addressing phosphorus impairment.	8/8/2012	8/8/2012	COMPLETE
TMDL (USEPA) Approved	EPA approves Minnesota's and Wisconsin's one TMDL for total phosphorus on Lake St. Croix. The designated use impairment in the lake is aquatic recreational use, and Lake St. Croix is classified as a Class 2B water and is defined as and protected for aquatic life (warm and cool water fisheries and associated biota) and recreation (all water recreation activities including bathing).	8/8/2012	8/8/2012	COMPLETE
TMDL Development	This TMDL is for Lake St. Croix on the St. Croix River, and is a joint submittal by both the Minnesota Pollution Control Agency (MPCA) and the Wisconsin Department of Natural Resources (WDNR). On April 6, 2006, an agreement was signed by Sheryl Corrigan, Commissioner of the Minnesota Pollution Control Agency (MPCA) and Scott Hassett, Secretary, WDNR, committing their agencies to work cooperatively to achieve the 20-percent phosphorus reduction goal. This goal will form the basis for future TMDL and implementation efforts.	4/13/2016	12/31/2099	IN_PROGRESS

#### Details: Parameter

#### Value/Amount

#### Units

#### Comments

Total Phosphorus

Total Suspended Solids

### Monitoring Stations

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Station ID	Name		Comments		
<b>Assessment Units</b>					
WBIC	Segment	Local Name	Official Name		
2601500	1	St. Croix Lake	Lake Saint Croix		
<b>Lab Account Codes</b>					
Account Code	Description			Start Date	End Date
<b>Forms</b>					
Form Code	Form Name				
<b>Methods</b>					
Method Code	Method Description				
<b>Fieldwork Events</b>					
Start Date	Status	Field ID	Station ID	Station Name	
<b>Documents</b>					
Title	Description	Author	Published	Comments	
Implementation Plan for the Lake St. Croix Nutrient TMDL	Implementation Plan for the Lake St. Croix Nutrient TMDL	MPCA, WDNR	1/1/2013		
LAKE ST. CROIX 2008 IMPAIRED WATERS DATA DOCUMENTATION	Data Documentation		1/30/2008		
Lake St. Croix (2601500) TMDL EPA Approval Letter and Decision Doc	The approval letter and decision document written by the EPA for the Lake Saint Croix TMDL.	USEPA	8/8/2012		
Lake St. Croix Nutrient TMDL	Lake Saint Croix Nutrient Total Maximum Daily Load, May 2012. Colaboration between the Minnesota Pollution Control Agency and the Wisconsin Department of Natural Resources.	WDNR, Minnesota Pollution Control Agency (MPCA)	5/1/2012		
Lake St. Croix Photo		WDNR	2/16/2012		
Lake St. Croix Progress Report [Lake St. Croix Total Daily Maximum Load 2016]	Lake St. Croix TMDL 2016 Progress Report 3200-2016-22	MPCA, WDNR	9/1/2016		
Lake St. Croix Progress Report [Lake St. Croix Total Daily Maximum Load 2017]	Lake St. Croix TMDL 2017 Progress Report	WDNR	4/1/2019		
Lake St. Croix TMDL DRAFT 2/2011 Public Notice		Bartilson, Kathy	1/10/2012		

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Lake St. Croix TMDL Stakeholder Engagement Strategy and Communication Plan	The Stakeholder Strategy and Communication Plan describes people's response on how they view their engagement in the TMDL process for Lake St. Croix and outlines what may be the challenges for implementing the TMDL. It also helps understand what everyone's role in the St. Croix Basin is, and who they should be working with as activities to reduce nutrients move forward.	Bonestroo and CR Planning	5/30/2011	
St. Croix TMDL Factsheet 2012		Bartilson, Kathy	2/16/2012	

### Budget

**Combined Budgets:**

**Combined WSLH:**

**Combined Total:** \$0.00

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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