

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** West\_TWA\_4\_2016  
**Name:** Lake St. Croix Tributary TWA 2016-2017  
**Type:** Targeted Monitoring  
**Subtype:** Volunteer Monitoring  
**Status:** COMPLETE  
**Start Date:** 05/01/2016  
**End Date:** 06/30/2017  
**Purpose:** The Lake St. Croix TMDL and Implementation Plan is supported by State and Federal Agencies in Minnesota and Wisconsin as well as other partners. Recent activities include the completion of Basin wide SWAT modeling to more accurately reflect pollutant loading areas in the watershed. Implementation monitoring is occurring in Minnesota including on the St. Croix River and Lake St. Croix. At a recent meeting, the lack of load monitoring on major tributaries in Wisconsin was identified as a gap in implementation monitoring. The tributaries include the Kinnickinnic River, Willow River and Apple River. Continuous streamflow is currently gaged on the Apple and Kinnickinnic Rivers so the addition of monthly TP and suspended solids will allow for load estimation to document future trends as implementation occurs. The existing gage on the Willow River is currently not operational however it appears funding will be available to restart the gage. This is a section 319 funded project.  
**Objective:** CBM will try and identify volunteers to collect year round monthly water chemistry samples. If volunteers cannot be found Department LTE or FTE staff will consider collecting samples especially if sampling can be completed during other monitoring activities. The samples will be analyzed for total phosphorus and suspended solids. The data will be provided to project partners to calculate loads and will be used to assess project effectiveness.  
**Comments:** If the USGS gage on the Willow is not funded then water chemistry samples will not be collected from the river.  
**Outcome:**  
**Study Design:** Monthly samples will be collected from the Kinnickinnic River and Apple River by volunteers or Department staff and be shipped to the SLOH for total phosphorus and suspended solid analysis.  
  
 Data will be provided to the ST. Croix Monitoring and implementation teams who will use this information along with other data to assess implementation of the TMDL.

**QA Measures:** Standard DNR and SLOH protocols will be followed.

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
CUNNINGHAM, JOSEPH L	TEAM_MEMBER	ACTIVE	05/01/2016	06/30/2017	Wisconsin DNR	
HAZUGA, MARK J	COORDINATOR	ACTIVE	12/16/2015	12/31/2099	Wisconsin DNR	
LALIBERTE, PAUL J	SUPERVISOR	ACTIVE	12/16/2015	12/31/2099	Wisconsin DNR	
Perdzock, Amanda R	COORDINATOR	ACTIVE	04/04/2018		Wisconsin DNR	
RING, JACOB D	TEAM_MEMBER	ACTIVE	12/16/2015	12/31/2099	Wisconsin DNR	
Sorge, Patrick W	COORDINATOR	ACTIVE	12/16/2015	12/31/2099	Wisconsin DNR	
WILLGER, CHRISTOPHER J	COORDINATOR	ACTIVE	05/01/2016	06/30/2017	Wisconsin DNR	

### Project Statuses

Date	Reported By	Status	Comments
01/29/2016	MARK HAZUGA	Proposed	
01/18/2018	MARK HAZUGA	Complete	Sampling completed as planned. No final report at this time. Data will be used to support St. Implementation effort

### Actions

Action	Detailed Description	Start	End Date	Status
Monitor to Evaluate Projects	Chemistry sampling to evaluate phosphorus and sediment load from three tributaries to Lake St. Croix.	05/01/2016	06/30/2017	PROPOSED

## Wisconsin Department of Natural Resources SWIMS Project Summary

### Monitoring Stations

Station ID	Name	Comments
563142	Apple River - Below Apple Falls Flowage Dam	TP, SS
483031	Kinnickinnic River - Cth F Bridge	TP, SS
563069	Willow River - Below Little Falls	TP, SS

### Assessment Units

WBIC	Segment	Local Name	Official Name
2601800	1	Kinnickinnic River	Kinnickinnic River
2606900	1	Willow River (Mouth to Dam)	Willow River
2614000	1	Apple River	Apple River

### Lab Account Codes

Account Code	Description	Start Date	End Date
WQ019	319 Project Funded TWA	03/22/2016	12/31/2016
WQ023	319 PROJECT FUNDED TWA	12/19/2016	12/31/2017

### 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
05/10/2016 12:40	COMPLETE	AR-01	563142	Apple River - Below Apple Falls Flowage Dam
05/10/2016 14:00	COMPLETE	WR-02	563069	Willow River - Below Little Falls
05/14/2016 11:10	COMPLETE	KRCFB-2016-MAY	483031	Kinnickinnic River - Cth F Bridge
06/14/2016 10:20	COMPLETE	AR-01	563142	Apple River - Below Apple Falls Flowage Dam
06/14/2016 11:30	COMPLETE	WR-02	563069	Willow River - Below Little Falls
06/18/2016 12:38	COMPLETE	KRCFB-2016	483031	Kinnickinnic River - Cth F Bridge
07/12/2016 08:30	COMPLETE	AR-01	563142	Apple River - Below Apple Falls Flowage Dam
07/12/2016 10:00	COMPLETE	WR-02	563069	Willow River - Below Little Falls
07/23/2016 13:42	COMPLETE	KRCFB-2016-JULY	483031	Kinnickinnic River - Cth F Bridge
08/09/2016 12:11	COMPLETE	WR-02	563069	Willow River - Below Little Falls
08/09/2016 13:15	COMPLETE	AR-01	563142	Apple River - Below Apple Falls Flowage Dam
08/19/2016 19:10	COMPLETE	KRCFB-2016-AUGU	483031	Kinnickinnic River - Cth F Bridge
09/13/2016 15:00	COMPLETE	AR-01	563142	Apple River - Below Apple Falls Flowage Dam
09/13/2016 16:00	COMPLETE	WR-02	563069	Willow River - Below Little Falls
09/25/2016 12:19	COMPLETE	KRCFB-2016-SEP	483031	Kinnickinnic River - Cth F Bridge
10/12/2016 09:30	COMPLETE	WR-02	563069	Willow River - Below Little Falls
10/12/2016 10:45	COMPLETE	AR-01	563142	Apple River - Below Apple Falls Flowage Dam
10/24/2016 19:17	COMPLETE	KRCFB-2016-OCTO	483031	Kinnickinnic River - Cth F Bridge
11/08/2016 11:45	COMPLETE	WR-02	563069	Willow River - Below Little Falls
11/08/2016 13:00	COMPLETE	AR-01	563142	Apple River - Below Apple Falls Flowage Dam
11/20/2016 19:00	COMPLETE	KRCFB-2016-NOV	483031	Kinnickinnic River - Cth F Bridge
12/13/2016 12:45	COMPLETE	AR-01	563142	Apple River - Below Apple Falls Flowage Dam
12/13/2016 14:45	COMPLETE	WR-02	563069	Willow River - Below Little Falls
12/26/2016 12:00	COMPLETE	KRCFB-2016-DECE	483031	Kinnickinnic River - Cth F Bridge

## Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
01/10/2017 11:45	COMPLETE	WR-03	563069	Willow River - Below Little Falls
01/10/2017 12:53	COMPLETE	AR-02	563142	Apple River - Below Apple Falls Flowage Dam
01/16/2017 16:11	COMPLETE	KRCFB-2016-JANU, 483031		Kinnickinnic River - Cth F Bridge
02/11/2017 13:33	COMPLETE	KRCFB-2016-FEBR 483031		Kinnickinnic River - Cth F Bridge
02/14/2017 09:45	COMPLETE	AR-01	563142	Apple River - Below Apple Falls Flowage Dam
02/14/2017 10:45	COMPLETE	WR-02	563069	Willow River - Below Little Falls
03/14/2017 12:30	COMPLETE	AR-01	563142	Apple River - Below Apple Falls Flowage Dam
03/14/2017 14:00	COMPLETE	WR-02	563069	Willow River - Below Little Falls
03/18/2017 14:50	COMPLETE	KRCFB-2016-MARC 483031		Kinnickinnic River - Cth F Bridge
04/11/2017 12:30	COMPLETE	AR-01	563142	Apple River - Below Apple Falls Flowage Dam
04/11/2017 13:30	COMPLETE	WR-02	563069	Willow River - Below Little Falls
04/15/2017 18:15	COMPLETE	KRCFB-2016-APRIL 483031		Kinnickinnic River - Cth F Bridge

### Documents

Title	Description	Author	Published	Comments
2016 Total Phosphorus Monitoring Report - Kinnickinnic River Å¿ CTH F Bridge	The Lake St. Croix TMDL and Implementation Plan is supported by State and Federal Agencies in Minnesota and Wisconsin as well as other partners. The lack of load monitoring on major tributaries in Wisconsin was identified as a gap in implementation monitoring. The tributaries include the Kinnickinnic River, Willow River and Apple River. The addition of monthly TP and suspended solids will allow for load estimation to document future trends as implementation occurs. Bottom of Form	Ilana Haimes	01/10/2017	

### Budget

**Budget Description:** FY16 May 1 to June 30, 2016 **Start Date:** 05/01/2016 **End Date:** 06/30/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	20	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	20	Hours	\$15.00	\$300.00	
LTE FR	LTE Fringe				\$74.10	
LTE IND	LTE Indirect				\$60.49	
LTE TOT	LTE Total Cost				\$434.59	
SUPPLY	Supplies	1		\$40.00	\$40.00	shipping and ice costs
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	600	Miles	\$0.72	\$432.00	
MEAL	Meals	4	Meals	\$10.00	\$40.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$472.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$946.59	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
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## Wisconsin Department of Natural Resources SWIMS Project Summary

**Total SLOH Lab Costs:** \$0.00  
**Total Budget:** \$946.59

**Budget Description:** FY 17 July 1 through June 30, 2017      **Start Date:** 07/01/2016      **End Date:** 06/30/2017

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	60	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	100	Hours	\$15.00	\$1,500.00	
LTE FR	LTE Fringe				\$370.50	
LTE IND	LTE Indirect				\$302.46	
LTE TOT	LTE Total Cost				\$2,172.96	
SUPPLY	Supplies	1		\$200.00	\$200.00	shipping and ice costs
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	1500	Miles	\$0.72	\$1,080.00	
MEAL	Meals	12	Meals	\$10.00	\$120.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$1,200.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$3,572.96	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
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**Total SLOH Lab Costs:** \$0.00  
**Total Budget:** \$3,572.96

**Combined Budgets:** \$4,519.55  
**Combined SLOH:** \$0.00  
**Combined Total:** \$4,519.55

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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