

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** WCR\_05\_CMP14  
**Name:** Mead Lake 2013 TMDL Implementation Evaluation Monitoring - WCR\_05\_CMP14  
**Type:** TMDL/303d Projects  
**Subtype:** Monitor Listed Waters  
**Status:** ACTIVE  
**Start Date:** 04/01/2013  
**End Date:** 12/31/2014  
**Purpose:** Mead Lake is an eutrophic impoundment in Clark County and in 2008 a TMDL was completed and approved for the lake. The goal of the TMDL was to reduce total phosphorus (TP) loading by ~4500 lbs/year or a 35% reduction. Clark County has been implementing BMPs for the past several years and has achieved substantial reduction in TP loading to Mead Lake from the watershed (based on model results).

Clark County LCD has installed BMPs in the headwaters of the watershed to reduce barnyard and feedlot runoff from a very large operation. The County has also installed BMPs in other parts of the watershed and is planning to work with three additional operations this summer. These operations are located in relatively close proximity of each other and provides an opportunity to monitor site specific improvements as well as overall watershed improvement.

However, there are concerns that new additional sources of TP are occurring in the watershed. Substantial acreage has been converted from protected land use such as woodland, wetland and fallow fields to cropland. These additional sources were not accounted for in the TMDL and may offset the gains in TP reduction implemented by Clark County.

**Objective:** Staff in Western District would like to obtain funding to evaluate loading from the watershed and water quality conditions in the South Fork Eau Claire River and Mead Lake. Monitoring results will be used to determine if existing BMP implementation has improved water quality conditions and will provide a bench mark or baseline to evaluate proposed BMP installation. Results may also be useful in assessing new TP sources in the watershed and may be useful in determining if additional loading reductions are needed to improve water quality. The overall goal of this project is to evaluate the success of the Mead Lake TMDL and determine if additional TP load reductions are needed from the watershed. There are multiple objectives of this project.

1) Data collected will be used to determine if the installation of BMPs have reduced TP loading from the watershed and if water quality conditions improved in Mead Lake. The data will help evaluate the accuracy of the TP load reduction goal developed in the 2008 TMDL. The information may help in assessing new TP sources in the watershed.

2) Data collected will provide a baseline to document current water quality conditions and will allow for a comparison following additional BMP installation. This study will allow for an overall watershed and a site specific evaluation.

**Comments:** Second year of tributary load and inlake monitoring. This project is being proposed as a continuing project (former project ID WCR\_20\_CMP13B).

**Outcome:** Water chemistry samples will be collected from two sites in Mead Lake. TP, chlorophyll, secchi readings and dissolved oxygen and temperature profiles will be collected biweekly from May through October. A total of 22 sampling events are planned. Eight in lake water chemistry samples will be collected in FY14 and 14 samples will be collected in FY 15.

Load monitoring will start in May and continue through calendar year 2013. Monitoring is planned to continue into calendar year 2014. TP, SS and streamflow will be collected bi-weekly for a total of 16 sampling events. Streamflow will be collected more frequently to establish a stage discharge relationship with the pressure transducer.

Macroinvertebrate samples collected in 2013 will be resurveyed at three sites on the South Fork Eau Claire in fall of 2014 to document if community changes occurred as a result of BMP installation. A final report will not be completed until Post monitoring data is collected at a later date.

**Study Design:** This study will include two components. 1) Assess water quality of Mead Lake 2) Assess TP loading from the South Fork Eau Claire River Watershed to Mead Lake and Assess Water Quality of Mead Lake -

Department staff will monitor in water quality conditions in Mead Lake. Monitoring will include collecting TP, chlor and secchi readings from two inlake sites biweekly from May through October. Vertical profiles of water chemistry parameters (dissolved oxygen, temperature, conductivity and pH) will be collected during each visit. Department staff will also train citizen volunteers to collect self help data. Self help monitoring will continue beyond this study and will be used to monitor changes in lake water quality.

## Wisconsin Department of Natural Resources SWIMS Project Summary

Assess TP loading from Watershed - Western District water resources staff will install a pressure transducer to be used with streamflow measurements to establish a stage discharge relationship. TP and SS data will be collected bi-weekly and used with streamflow measurements to estimate annual TP loading.

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
HAZUGA, MARK J	COORDINATOR	COMPLETE	04/01/2013	12/31/2014	Wisconsin DNR	
JACOBSON, MATTHEW J	COORDINATOR	COMPLETE	05/20/2013		Wisconsin DNR	
LALIBERTE, PAUL J	SUPERVISOR	RETIRED	04/01/2013	12/31/2013	Wisconsin DNR	
Lepsch, Jodi A	COORDINATOR	ACTIVE	04/01/2013	12/31/2014	Wisconsin DNR	
MARES, ANNA R	TEAM_MEMBER	COMPLETE	04/01/2013	12/31/2014	Wisconsin DNR	
OLDENBURG, PATRICK S	TEAM_MEMBER	COMPLETE	04/01/2013	12/31/2013	Wisconsin DNR	
RING, JACOB D	TEAM_MEMBER	COMPLETE	04/01/2013	12/31/2014	Wisconsin DNR	
Sorge, Patrick W	TEAM_MEMBER	RETIRED	04/01/2013	12/31/2014	Wisconsin DNR	

### Project Statuses

Date	Reported By	Status	Comments
01/21/2013	MARK HAZUGA	Proposed	
09/30/2013	MARK HAZUGA	Progress: 25-50% Complete	Monitoring was completed as planned for the project. Macroinvertebrate and the October TP sampling is scheduled. Lake monitoring is complete and the load monitoring will continue to ice up. Data analysis will begin in winter however another year of data collection will be needed to evaluate annual variability.
01/01/2014	APRIL MARCANGELI	Proposed	
06/11/2014	MARK HAZUGA	Progress: 0-25% Complete	Monitoring planned for 2013 was completed. Load monitoring was completed before ice up. The water level sensor was deployed and streamflow and water chemistry monitoring was initiated in April. Lake monitoring was initiated in May and will continue through September.
12/04/2014	MARK HAZUGA	Progress: 75-100% Complete	2 years of load monitoring completed. Data analysis and summary will be started in 2015.

### Actions

Action	Detailed Description	Start	End Date	Status
Monitor to Evaluate Projects	The overall goal of this project is to evaluate the success of the Mead Lake TMDL and determine if additional TP load reductions are needed from the watershed.	04/01/2013	12/31/2013	PROPOSED

### Monitoring Stations

## Wisconsin Department of Natural Resources SWIMS Project Summary

Station ID	Name	Comments
10010459	Creek 27-8 Station1 Bachelors Ave.	
10030296	Mead Lake - Deep Spot	
103116	Mead Lake - East Bay	
10010351	Norwegian Creek - Norwegian Cr Station 1 Sterling Ave	
10010373	Rocky Run - Rocky Run 1 Rock Cr. Rd.	
10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4	
10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm	
10010394	South Fork Eau Claire River - South Fork E.C. River Station 3 Cloverdale Bridge.	
10017259	South Fork Eau Claire-5 M Upstream Bridge On Starks Rd.	
10041173	South Fork Eau claire River at CTN N	
10039947	South Fork Eau claire River at Colby Factory Rioad	
10041176	South Fork Eau claire below Mead Lake Dam	
10016676	Unnamed Trib Of S Fork Eau C - 50 Downstream Bridge On Pine Rd -Creek Runs Parallel To Rd	

### Assessment Units

WBIC	Segment	Local Name	Official Name
2137000	1	South Fork Eau Claire River	South Fork Eau Claire River
2137000	2	South Fork Eau Claire River	South Fork Eau Claire River
2137000	3	South Fork Eau Claire River	South Fork Eau Claire River
2143900	1	Mead Lake	Mead Lake
2144100	1	Rocky Run	Rocky Run
2144500	1	Norwegian Creek	Norwegian Creek
2145000	1	Local Water	Unnamed
2145200	1	Local Water	Unnamed

### Lab Account Codes

Account Code	Description	Start Date	End Date
WT161	EVALUATION MONITORING	05/10/2012	12/31/2014

### Forms

Form Code	Form Name
SECCHI_TEMPDO_PLI	Lake Monitoring - Secchi, Temp., D.O., pH, Conductivity
BENTHOS MEASUREM	Secchi,Temp,DO,Turb,conductance,depth

### Methods

Method Code	Description
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### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
05/08/2013 08:30	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
05/08/2013 08:30	COMPLETE		10030296	Mead Lake - Deep Spot
05/08/2013 09:00	COMPLETE	ME1	103116	Mead Lake - East Bay
05/08/2013 09:00	COMPLETE		103116	Mead Lake - East Bay
05/14/2013 08:18	COMPLETE	SFW	10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4

## Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
05/14/2013 08:30	COMPLETE	UCP	10016676	Unnamed Trib Of S Fork Eau C - 50 Downstream Bridge On Pine Rd -Creek Runs Parallel To Rd
05/14/2013 09:00	COMPLETE	SFCF	10039947	South Fork Eau claire River at Colby Factory Rioad
05/14/2013 09:15	COMPLETE	UCB	10010459	Creek 27-8 Station1 Bachelors Ave.
05/14/2013 09:25	COMPLETE	SFC	10010394	South Fork Eau Claire River - South Fork E.C. River Station 3 Cloverdale Bridge.
05/14/2013 09:40	COMPLETE	NCS	10010351	Norwegian Creek - Norwegian Cr Station 1 Sterling Ave
05/14/2013 09:50	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
05/14/2013 10:45	COMPLETE	RRRC	10010373	Rocky Run - Rocky Run 1 Rock Cr. Rd.
05/28/2013 14:00	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
05/28/2013 14:35	COMPLETE	ME1	103116	Mead Lake - East Bay
05/28/2013 14:50	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
05/28/2013 14:54	COMPLETE		10030296	Mead Lake - Deep Spot
06/10/2013	COMPLETE		103116	Mead Lake - East Bay
06/10/2013 15:00	COMPLETE	ME1	103116	Mead Lake - East Bay
06/10/2013 15:00	COMPLETE		10030296	Mead Lake - Deep Spot
06/10/2013 15:15	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
06/10/2013 15:50	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
06/11/2013 10:07	COMPLETE	UCP	10016676	Unnamed Trib Of S Fork Eau C - 50 Downstream Bridge On Pine Rd -Creek Runs Parallel To Rd
06/11/2013 10:25	COMPLETE	SFW	10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4
06/11/2013 10:42	COMPLETE	SFCF	10039947	South Fork Eau claire River at Colby Factory Rioad
06/11/2013 10:58	COMPLETE	UCB	10010459	Creek 27-8 Station1 Bachelors Ave.
06/11/2013 11:20	COMPLETE	NCS	10010351	Norwegian Creek - Norwegian Cr Station 1 Sterling Ave
06/11/2013 11:38	COMPLETE	RRRC	10010373	Rocky Run - Rocky Run 1 Rock Cr. Rd.
06/25/2013	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
06/25/2013	COMPLETE		103116	Mead Lake - East Bay
06/25/2013 14:08	COMPLETE	ME1	103116	Mead Lake - East Bay
06/25/2013 14:31	COMPLETE	MW1B	10030296	Mead Lake - Deep Spot
06/25/2013 15:00	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
07/09/2013	COMPLETE	NCS	10010351	Norwegian Creek - Norwegian Cr Station 1 Sterling Ave
07/09/2013	COMPLETE	RRRC	10010373	Rocky Run - Rocky Run 1 Rock Cr. Rd.
07/09/2013 09:15	COMPLETE		10030296	Mead Lake - Deep Spot
07/09/2013 09:20	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
07/09/2013 09:20	COMPLETE	MW1B	10030296	Mead Lake - Deep Spot
07/09/2013 09:45	COMPLETE	ME1	103116	Mead Lake - East Bay
07/09/2013 09:45	COMPLETE		103116	Mead Lake - East Bay
07/09/2013 13:20	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
07/09/2013 14:25	COMPLETE	SFC	10010394	South Fork Eau Claire River - South Fork E.C. River Station 3 Cloverdale Bridge.
07/09/2013 14:30	COMPLETE	UCB	10010459	Creek 27-8 Station1 Bachelors Ave.
07/09/2013 14:50	COMPLETE	SFCF	10039947	South Fork Eau claire River at Colby Factory Rioad
07/09/2013 15:00	COMPLETE	SFW	10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4
07/09/2013 15:16	COMPLETE	UCP	10016676	Unnamed Trib Of S Fork Eau C - 50 Downstream Bridge On Pine Rd -Creek Runs Parallel To Rd
07/23/2013 09:00	COMPLETE	MW1	10030296	Mead Lake - Deep Spot

## Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
07/23/2013 09:00	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
07/23/2013 09:40	COMPLETE	MEI	103116	Mead Lake - East Bay
08/06/2013 08:30	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
08/06/2013 08:30	COMPLETE	MW1B	10030296	Mead Lake - Deep Spot
08/06/2013 08:30	COMPLETE		10030296	Mead Lake - Deep Spot
08/06/2013 09:00	COMPLETE	ME1	103116	Mead Lake - East Bay
08/06/2013 09:00	COMPLETE		103116	Mead Lake - East Bay
08/06/2013 10:43	COMPLETE	RRRC	10010373	Rocky Run - Rocky Run 1 Rock Cr. Rd.
08/06/2013 11:00	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
08/06/2013 11:32	COMPLETE	NCS	10010351	Norwegian Creek - Norwegian Cr Station 1 Sterling Ave
08/06/2013 11:45	COMPLETE	SFC	10010394	South Fork Eau Claire River - South Fork E.C. River Station 3 Cloverdale Bridge.
08/06/2013 11:54	COMPLETE	UCB	10010459	Creek 27-8 Station1 Bachelors Ave.
08/06/2013 12:00	COMPLETE	SFCF	10039947	South Fork Eau claire River at Colby Factory Rioad
08/06/2013 13:12	COMPLETE	SFW	10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4
08/06/2013 13:24	COMPLETE	UCP	10016676	Unnamed Trib Of S Fork Eau C - 50 Downstream Bridge On Pine Rd -Creek Runs Parallel To Rd
08/20/2013 10:40	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
08/20/2013 11:15	COMPLETE	ME1	103116	Mead Lake - East Bay
08/20/2013 11:30	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
08/20/2013 11:30	COMPLETE	MW1B	10030296	Mead Lake - Deep Spot
08/20/2013 11:30	COMPLETE		103116	Mead Lake - East Bay
08/20/2013 12:00	COMPLETE		10030296	Mead Lake - Deep Spot
09/04/2013 09:30	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
09/04/2013 09:30	COMPLETE	MWB1	10030296	Mead Lake - Deep Spot
09/04/2013 09:30	COMPLETE		10030296	Mead Lake - Deep Spot
09/04/2013 09:45	COMPLETE	ME1	103116	Mead Lake - East Bay
09/04/2013 09:45	COMPLETE		103116	Mead Lake - East Bay
09/04/2013 14:30	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
09/04/2013 14:30	COMPLETE	UCP	10016676	Unnamed Trib Of S Fork Eau C - 50 Downstream Bridge On Pine Rd -Creek Runs Parallel To Rd
09/04/2013 15:00	COMPLETE	RRRC	10010373	Rocky Run - Rocky Run 1 Rock Cr. Rd.
09/04/2013 15:15	COMPLETE	NCS	10010351	Norwegian Creek - Norwegian Cr Station 1 Sterling Ave
09/04/2013 15:30	COMPLETE	SFC	10010394	South Fork Eau Claire River - South Fork E.C. River Station 3 Cloverdale Bridge.
09/04/2013 15:40	COMPLETE	UCB	10010459	Creek 27-8 Station1 Bachelors Ave.
09/04/2013 15:50	COMPLETE	SFCF	10039947	South Fork Eau claire River at Colby Factory Rioad
09/04/2013 16:10	COMPLETE	SFW	10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4
09/13/2013 13:21	COMPLETE		103116	Mead Lake - East Bay
09/18/2013	COMPLETE		10030296	Mead Lake - Deep Spot
09/18/2013	COMPLETE		103116	Mead Lake - East Bay
09/18/2013 13:30	COMPLETE	ME1	103116	Mead Lake - East Bay
09/18/2013 13:50	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
09/18/2013 14:00	COMPLETE	MW1B	10030296	Mead Lake - Deep Spot
09/18/2013 15:00	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
10/02/2013	COMPLETE		10010459	Creek 27-8 Station1 Bachelors Ave.

## Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
10/02/2013	COMPLETE		10010351	Norwegian Creek - Norwegian Cr Station 1 Sterling Ave
10/02/2013	COMPLETE		10010373	Rocky Run - Rocky Run 1 Rock Cr. Rd.
10/02/2013	COMPLETE		10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4
10/02/2013	COMPLETE		10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
10/02/2013	COMPLETE		10017259	South Fork Eau Claire-5 M Upstream Bridge On Starks Rd.
10/02/2013	COMPLETE		10041173	South Fork Eau claire River at CTN N
10/02/2013	COMPLETE		10039947	South Fork Eau claire River at Colby Factory Rioad
10/02/2013	COMPLETE		10016676	Unnamed Trib Of S Fork Eau C - 50 Downstream Bridge On Pine Rd -Creek Runs Parallel To Rd
10/02/2013	COMPLETE		10041176	South Fork Eau claire below Mead Lake Dam
10/02/2013 09:40	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
10/02/2013 10:45	COMPLETE	RRRC	10010373	Rocky Run - Rocky Run 1 Rock Cr. Rd.
10/02/2013 11:00	COMPLETE	NCS	10010351	Norwegian Creek - Norwegian Cr Station 1 Sterling Ave
10/02/2013 12:45	COMPLETE	UCP	10016676	Unnamed Trib Of S Fork Eau C - 50 Downstream Bridge On Pine Rd -Creek Runs Parallel To Rd
10/02/2013 13:10	COMPLETE	SFW	10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4
10/02/2013 14:15	COMPLETE	SFCF	10039947	South Fork Eau claire River at Colby Factory Rioad
10/02/2013 14:45	COMPLETE	UCB	10010459	Creek 27-8 Station1 Bachelors Ave.
10/02/2013 15:00	COMPLETE	SFC	10010394	South Fork Eau Claire River - South Fork E.C. River Station 3 Cloverdale Bridge.
10/16/2013 11:35	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
10/31/2013 09:15	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
11/13/2013 09:00	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
04/09/2014 15:30	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
04/22/2014 08:30	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
05/05/2014 10:49	COMPLETE		103116	Mead Lake - East Bay
05/05/2014 11:08	COMPLETE		10030296	Mead Lake - Deep Spot
05/06/2014 08:13	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
05/06/2014 08:15	COMPLETE	MEI	103116	Mead Lake - East Bay
05/06/2014 08:15	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
05/20/2014 10:00	COMPLETE	ME1	103116	Mead Lake - East Bay
05/20/2014 10:26	COMPLETE		10030296	Mead Lake - Deep Spot
05/20/2014 11:00	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
05/20/2014 13:00	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
06/03/2014 13:00	COMPLETE	ME	103116	Mead Lake - East Bay
06/03/2014 13:00	COMPLETE	MWB	10030296	Mead Lake - Deep Spot
06/03/2014 13:00	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
06/03/2014 13:00	COMPLETE		103116	Mead Lake - East Bay
06/03/2014 13:22	COMPLETE		10030296	Mead Lake - Deep Spot
06/03/2014 13:30	COMPLETE	MW	10030296	Mead Lake - Deep Spot
06/17/2014 10:49	COMPLETE		103116	Mead Lake - East Bay
06/17/2014 11:00	COMPLETE	ME1	103116	Mead Lake - East Bay
06/17/2014 11:08	COMPLETE		10030296	Mead Lake - Deep Spot

## Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
06/17/2014 11:30	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
06/17/2014 11:35	COMPLETE	MW1BOTTOM	10030296	Mead Lake - Deep Spot
06/18/2014 13:59	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
07/02/2014 13:54	COMPLETE		103116	Mead Lake - East Bay
07/02/2014 14:00	COMPLETE	ME	103116	Mead Lake - East Bay
07/02/2014 14:10	COMPLETE		10030296	Mead Lake - Deep Spot
07/02/2014 14:30	COMPLETE	MW	10030296	Mead Lake - Deep Spot
07/02/2014 14:30	COMPLETE	MW-B	10030296	Mead Lake - Deep Spot
07/02/2014 15:00	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
07/15/2014 08:30	COMPLETE	MW-B	10030296	Mead Lake - Deep Spot
07/15/2014 08:30	COMPLETE	MW1	10030296	Mead Lake - Deep Spot
07/15/2014 09:00	COMPLETE	ME1	103116	Mead Lake - East Bay
07/15/2014 09:45	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
07/28/2014 10:45	COMPLETE	MW	10030296	Mead Lake - Deep Spot
07/29/2014 09:20	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
07/29/2014 10:30	COMPLETE	ME	103116	Mead Lake - East Bay
07/29/2014 11:00	COMPLETE	MW-B	10030296	Mead Lake - Deep Spot
07/29/2014 11:43	COMPLETE		103116	Mead Lake - East Bay
07/29/2014 12:00	COMPLETE		10030296	Mead Lake - Deep Spot
08/12/2014 08:45	COMPLETE	MW	10030296	Mead Lake - Deep Spot
08/12/2014 08:45	COMPLETE		10030296	Mead Lake - Deep Spot
08/12/2014 08:50	COMPLETE	MWB	10030296	Mead Lake - Deep Spot
08/12/2014 09:15	COMPLETE	ME	103116	Mead Lake - East Bay
08/12/2014 09:15	COMPLETE		103116	Mead Lake - East Bay
08/12/2014 09:30	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
08/26/2014 11:30	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
08/26/2014 12:20	COMPLETE	ME	103116	Mead Lake - East Bay
08/26/2014 12:28	COMPLETE		10030296	Mead Lake - Deep Spot
08/26/2014 12:40	COMPLETE	MW	10030296	Mead Lake - Deep Spot
08/26/2014 12:45	COMPLETE	MWB	10030296	Mead Lake - Deep Spot
09/09/2014 14:20	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
09/09/2014 14:45	COMPLETE		103116	Mead Lake - East Bay
09/09/2014 14:55	COMPLETE	MEI	103116	Mead Lake - East Bay
09/09/2014 15:00	COMPLETE	MWI	10030296	Mead Lake - Deep Spot
09/09/2014 15:04	COMPLETE		10030296	Mead Lake - Deep Spot
09/09/2014 15:15	COMPLETE	MWB	10030296	Mead Lake - Deep Spot
09/23/2014 10:10	COMPLETE	MWI	10030296	Mead Lake - Deep Spot
09/23/2014 10:10	COMPLETE		10030296	Mead Lake - Deep Spot
09/23/2014 10:15	COMPLETE	MWI-B	10030296	Mead Lake - Deep Spot
09/23/2014 10:30	COMPLETE	MEI	103116	Mead Lake - East Bay
09/23/2014 10:30	COMPLETE		103116	Mead Lake - East Bay
09/23/2014 11:15	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
10/08/2014 13:20	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm

## Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
10/21/2014 08:30	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
11/05/2014 09:30	COMPLETE	SFMM	10010391	South Fork Eau Claire River - South Fork E.C. Riv Station 2 Cth Mm
05/17/2019 12:40	COMPLETE	SFECRFR-2019-MA	10039947	South Fork Eau claire River at Colby Factory Rioad
05/17/2019 13:20	COMPLETE	SFECR4-2019-MAY	10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4
06/18/2019 09:06	COMPLETE	SFECRFR-2019-JUI	10039947	South Fork Eau claire River at Colby Factory Rioad
06/18/2019 09:28	COMPLETE	SFECR4-2019-JUN	10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4
07/16/2019 10:50	COMPLETE	SFECRFR-2019-JUI	10039947	South Fork Eau claire River at Colby Factory Rioad
07/16/2019 11:15	COMPLETE	SFECR4-2019-JULY	10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4
08/18/2019 09:45	COMPLETE	SFECRFR-2019-AU	10039947	South Fork Eau claire River at Colby Factory Rioad
08/18/2019 10:00	COMPLETE	SFECR4-2019-AUG	10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4
09/17/2019 15:10	COMPLETE	SFECRFR-2019-SE	10039947	South Fork Eau claire River at Colby Factory Rioad
09/17/2019 15:20	COMPLETE	SFECR4-2019-SEP	10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4
10/15/2019 14:10	COMPLETE	SFECR4-2019-OCT	10010161	South Fork Eau Claire River - S.F Eau Claire River Station 4
10/15/2019 14:20	COMPLETE	SFECRFR-2019-OC	10039947	South Fork Eau claire River at Colby Factory Rioad
	CANCELLED		10010394	South Fork Eau Claire River - South Fork E.C. River Station 3 Cloverdale Bridge.

### Documents

Title	Description	Author	Published	Comments
2019 Total Phosphorus Monitoring Report - South Fork Eau Claire River - S.F Eau Claire River Station 4	The overall goal of this project is to evaluate the success of the Mead Lake TMDL and determine if additional TP load reductions are needed from the watershed. There are multiple objectives of this project. 1) Data collected will be used to determine if the installation of BMPs have reduced TP loading from the watershed and if water quality conditions improved in Mead Lake. The data will help evaluate the accuracy of the TP load reduction goal developed in the 2008 TMDL. The information may help in assessing new TP sources in the watershed. 2) Data collected will provide a baseline to document current water quality conditions and will allow for a comparison following additional BMP installation. This study will allow for an overall watershed and a site specific evaluation.	Ilana Haimes	02/14/2020	
2019 Total Phosphorus Monitoring Report - South Fork Eau claire River at Colby Factory Rioad	The overall goal of this project is to evaluate the success of the Mead Lake TMDL and determine if additional TP load reductions are needed from the watershed. There are multiple objectives of this project. 1) Data collected will be used to determine if the installation of BMPs have reduced TP loading from the watershed and if water quality conditions improved in Mead Lake. The data will help evaluate	Ilana Haimes	02/14/2020	



## Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
	the accuracy of the TP load reduction goal developed in the 2008 TMDL. The information may help in assessing new TP sources in the watershed. 2) Data collected will provide a baseline to document current water quality conditions and will allow for a comparison following additional BMP installation. This study will allow for an overall watershed and a site specific evaluation.			

### Budget

**Budget Description:** April - June budget **Start Date:** 04/01/2013 **End Date:** 06/28/2013

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	80	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	125	Hours	\$15.00	\$1,875.00	average LTE hourly rate in WCR
LTE FR	LTE Fringe				\$463.13	
LTE IND	LTE Indirect				\$378.07	
LTE TOT	LTE Total Cost				\$2,716.20	
SUPPLY	Supplies	1		\$200.00	\$200.00	postage, shipping supplies
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	800	Miles	\$0.72	\$576.00	
MEAL	Meals	14	Meals	\$9.00	\$126.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$702.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
<b>TOTAL</b>	<b>Total Cost (excludes SLOH)</b>				<b>\$3,618.20</b>	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I251UNL	CHLOROPHYLL A, FLUORESCENCE (EPA 445.00)	INORGANIC CHEMISTRY	8	\$24.52	\$196.16
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	26	\$23.60	\$613.60
I530CLD	DISS REACTIVE PHOSPHORUS AS P (ORTHO-P) (SM 4500PE)	INORGANIC CHEMISTRY	0	\$23.00	\$0.00
I650JLT	SUSPENDED SOLIDS (EPA METHOD 160.2)	INORGANIC CHEMISTRY	6	\$18.80	\$112.80
I720BLT	FIELD TESTS	INORGANIC CHEMISTRY	26	\$6.36	\$165.36

**Total SLOH Lab Costs:** \$1,087.92  
**Total Budget:** \$4,706.12

### Budget Description: July - December

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	120	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	300	Hours	\$15.00	\$4,500.00	average LTE hourly rate in WCR
LTE FR	LTE Fringe				\$1,111.50	

## Wisconsin Department of Natural Resources SWIMS Project Summary

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
LTE IND	LTE Indirect				\$907.38	
LTE TOT	LTE Total Cost				\$6,518.88	
SUPPLY	Supplies	1		\$250.00	\$250.00	postage, shipping supplies, preservative
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	2475	Miles	\$0.72	\$1,782.00	
MEAL	Meals	20	Meals	\$9.00	\$180.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$1,962.00	
BUG	Bug Contracts	12		\$180.00	\$2,160.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$10,890.88	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I251UNL	CHLOROPHYLL A, FLUORESCENCE (EPA 445.00)	INORGANIC CHEMISTRY	13	\$24.52	\$318.76
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	49	\$23.60	\$1,156.40
I530CLD	DISS REACTIVE PHOSPHORUS AS P (ORTHO-P) (SM 4500PE)	INORGANIC CHEMISTRY	0	\$23.00	\$0.00
I650JLT	SUSPENDED SOLIDS (EPA METHOD 160.2)	INORGANIC CHEMISTRY	12	\$18.80	\$225.60
I720BLT	FIELD TESTS	INORGANIC CHEMISTRY	49	\$6.36	\$311.64

**Total SLOH Lab Costs:** \$2,012.40  
**Total Budget:** \$12,903.28

**Budget Description:** FY14 April - June **Start Date:** 04/01/2014 **End Date:** 06/30/2014

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	30	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	60	Hours	\$15.00	\$900.00	
LTE FR	LTE Fringe				\$222.30	
LTE IND	LTE Indirect				\$181.48	
LTE TOT	LTE Total Cost				\$1,303.78	
SUPPLY	Supplies	1		\$100.00	\$100.00	Hardware to install level recorder
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	900	Miles	\$0.72	\$648.00	
MEAL	Meals	12	Meals	\$10.00	\$120.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$768.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$2,171.78	

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

## Wisconsin Department of Natural Resources SWIMS Project Summary

**Total Budget:** \$2,171.78

**Budget Description:** FY 15 July through December **Start Date:** 07/01/2014 **End Date:** 12/31/2014

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	80	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	180	Hours	\$15.00	\$2,700.00	average LTE hourly rate in WCR
LTE FR	LTE Fringe				\$666.90	
LTE IND	LTE Indirect				\$544.43	
LTE TOT	LTE Total Cost				\$3,911.33	
SUPPLY	Supplies	1		\$200.00	\$200.00	postage, shipping supplies, preservative
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	1200	Miles	\$0.72	\$864.00	
MEAL	Meals	16	Meals	\$10.00	\$160.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$1,024.00	
BUG	Bug Contracts	3		\$180.00	\$540.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
<b>TOTAL</b>	<b>Total Cost (excludes SLOH)</b>				<b>\$5,675.33</b>	

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

**Total Budget:** \$5,675.33

**Combined Budgets:** \$22,356.18

**Combined SLOH:** \$3,100.32

**Combined Total:** \$25,456.50

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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