

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: WCR_07_CMP11
Name: Lake Tomah Tier III - WCR 7_11
Type: Targeted Monitoring
Subtype: Newly Proposed
Status: INACTIVE
Start Date: 07/01/2010
End Date: 06/30/2011
Purpose: Conduct bi-weekly nutrient inflow and outflow monitoring at Lake Tomah in order to determine nutrient loading to lake to assess the sustainability of the shallow lake management actions implemented in 2009. Install water level loggers at in flow and outflow to establish a flow rating curve used to estimate inflow/outflow.

Budget includes 2 levelloggers @ \$577 each, 26 inflow/outflow water chemistries, 8 in lake water chemistries. Estimate 1 fte/4hrs/sampling

Objective: Literature suggests that external phosphorus loading to shallow lakes should be reduced to 2 mg/m2/yr in order for inlake management to be sustained. In 2009, in lake management actions were implemented at lake Tomah (fish eradication, drawdown, habitat improvement). It's important to document the external load so we can correlate the sustainability (i.e. number of years of clear water) with the external load and the internal management acitons.

Comments: Project Category 4: New Projects Tier III for a Environmental Accountability Project

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) Biweekly nutrient sampling of inflow/outflow (26) and biweekly inlake sampling (8).
 3) Sampling starts in water year Oct 2010 and proposed for a two year period
 5) Interim report proposed in Nov 2011, with final report after two years of external load sampling

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
HAZUGA, MARK J	COORDINATOR	COMPLETE	07/01/2010	06/30/2011	Wisconsin DNR	
RASMUSSEN, KURT	COORDINATOR	ACTIVE	07/01/2010	06/30/2011	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
03/08/2010	DANIEL HELSEL	Proposed	Project is proposed to start in water year beginning oct 2010 through oct 2011
12/07/2010	MOLLI MACDONALD	Progress: 0-25% Complete	Project looks on schedule and stations look correct. Need January status update.
12/13/2010	DANIEL HELSEL	Progress: 25-50% Complete	Monitoring initiated in October with biweekly sample collection. Level loggers were installed at monitoring site. All field work is on schedule.
07/06/2011	DANIEL HELSEL	Progress: 75-100% Complete	All field samples for fy2011 were collected. At the end of water year - september 2011 - an annual load to the lake will be calculated
10/11/2013	RUTH PERSON	Progress: 75-100% Complete	This project has been continued as "Lake Tomah Tier III - FY12 Continued WCR 07_1213". All status updates and work on this project will now show up under the continued project ID.

Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	1 inlet 1 outlet 1 in lake

Wisconsin Department of Natural Resources SWIMS Project Summary

Question	Answer
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	26 inlet/outlet per water year
3. Proposed Dates for Sample Collection	8 inlake (growing season only) Oct 2010 - Oct 2011
4. List applicable databases and who will enter data?	SWIMS - Helsel SLOH - Helsel
5. Did you receive competitive projects funding in the previous year?	Yes
6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not?	Yes
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 to Evaluate Projects	Monitor inlake and watershed responses to Tomah Lake management	10/01/2010	06/30/2011	PROPOSED

Monitoring Stations

Station ID	Name	Comments
10032249	Chub Creek	
10020854	Creek 30-5 (Linnehan Valley) St. 1 Interior Rd. Crossing	
423126	Lake Tomah - Deep Hole	
10031836	S.F. Lemonweir River - Tomah Lake Outflow	
10016880	So Fork Lemonweir River - 30 Ft Above Bridge On 21st Drive	
10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm	
10011307	South Fork Lemonweir River - S.Fk. Lemonweir River Station #2 Fenceline Upstream Of Bridge On Heritage Rd.	
10032250	Unnamed	
10007762	Unnamed Creek 5-7 at Gondola Road	
10032255	Unnamed South Trib Lemonweir River	
10032254	Unnamed Trib - 40 ft Right of Golden Rd	
10032253	Unnamed Trib - Below Hazel Ave	
10032251	Unnamed Trib above Indigo Ave	
10032252	Unnamed Trib at July Rd	
10032248	Unnamed Trib on Unnamed Road right of Hedge Rd	

Assessment Units

WBIC	Segment	Local Name	Official Name
1338500	2	South Fork Lemonweir River	South Fork Lemonweir River
1338500	3	South Fork Lemonweir River	South Fork Lemonweir River
1342100	1	Tomah Lake	Lake Tomah
1342200	1	West Trib to Lake Tomah	Unnamed
1342300	1	Chub Cheek	Chub Creek
1342400	1	Local Water	Unnamed
1342500	1	Local Water	Unnamed
1342600	1	Local Water	Unnamed
5025308	1	Local Water	Unnamed

Wisconsin Department of Natural Resources SWIMS Project Summary

WBIC	Segment	Local Name	Official Name
5025446	1	Local Water	Unnamed
5026093	1	Local Water	Unnamed
5026217	1	Local Water	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
WT128	LAKES SPECIAL PROJECTS	06/18/2010	06/30/2011

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
08/12/2010 14:32	COMPLETE	TL1	423126	Lake Tomah - Deep Hole
10/06/2010 11:45	COMPLETE	SFL 1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
10/19/2010 09:45	COMPLETE	SFL 1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
10/19/2010 10:10	COMPLETE	SFL 2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
11/02/2010 10:02	COMPLETE	LR 1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
11/02/2010 11:08	COMPLETE	LR 2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
11/16/2010 12:20	COMPLETE	LR1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
11/16/2010 12:40	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
11/30/2010 11:15	COMPLETE	LR 1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
11/30/2010 12:20	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
12/14/2010 12:20	COMPLETE	LR1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
12/14/2010 13:10	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
12/28/2010 11:20	COMPLETE	LR1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
12/28/2010 12:45	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
01/05/2011 02:15	COMPLETE	T11	10007762	Unnamed Creek 5-7 at Gondola Road
01/05/2011 10:30	COMPLETE	T1	10032248	Unnamed Trib on Unnamed Road right of Hedge Rd
01/05/2011 10:50	COMPLETE	T2	10032249	Chub Creek
01/05/2011 11:00	COMPLETE	T3	10032250	Unnamed
01/05/2011 11:15	COMPLETE	T4	10032251	Unnamed Trib above Indigo Ave
01/05/2011 11:30	COMPLETE	T5	10032252	Unnamed Trib at July Rd
01/05/2011 11:45	COMPLETE	T6	10016880	So Fork Lemonweir River - 30 Ft Above Bridge On 21st Drive
01/05/2011 12:00	COMPLETE	T7	10020854	Creek 30-5 (Linnehan Valley) St. 1 Interior Rd. Crossing
01/05/2011 12:15	COMPLETE	T8	10011307	South Fork Lemonweir River - S.Fk. Lemonweir River Station #2 Fenceline Upstream Of Bridge On Heritage Rd.
01/05/2011 13:30	COMPLETE	T9	10032253	Unnamed Trib - Below Hazel Ave
01/05/2011 14:00	COMPLETE	T10	10032254	Unnamed Trib - 40 ft Right of Golden Rd
01/05/2011 14:40	COMPLETE	T12	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm

Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
01/05/2011 14:50	COMPLETE	T13	10032255	Unnamed South Trib Lemonweir River
01/11/2011 11:00	COMPLETE	LR1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
01/11/2011 11:30	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
01/24/2011 11:00	COMPLETE	LR1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
01/24/2011 11:30	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
02/07/2011 11:10	COMPLETE	LR1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
02/07/2011 12:30	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
02/22/2011 12:20	COMPLETE	LR 1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
02/22/2011 12:45	COMPLETE	LR 2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
03/08/2011 12:10	COMPLETE	LR 1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
03/08/2011 12:39	COMPLETE	LR 2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
03/22/2011 13:00	COMPLETE	LR1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
03/22/2011 13:30	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
04/04/2011 12:00	COMPLETE	LR 2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
04/04/2011 12:30	COMPLETE	LR 1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
04/18/2011 11:36	COMPLETE	LR 1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
04/18/2011 12:45	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
04/26/2011 15:00	COMPLETE	LR3	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
04/27/2011 11:10	COMPLETE	L1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
04/27/2011 12:30	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
05/02/2011 12:51	COMPLETE	LR1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
05/02/2011 13:50	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
05/17/2011 09:45	COMPLETE	LR1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
05/17/2011 10:50	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
05/31/2011 12:15	COMPLETE	LR 1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
05/31/2011 12:35	COMPLETE	LR 2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
06/16/2011 13:20	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
06/16/2011 14:20	COMPLETE	LR1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
06/28/2011 12:30	COMPLETE	LR1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
06/28/2011 13:00	COMPLETE	LR2	10031836	S.F. Lemonweir River - Tomah Lake Outflow
07/12/2011 12:55	COMPLETE	LR 1	10011306	South Fork Lemonweir River - S.Fk. Lemonweir River Station #1 Bridge On Cth Cm
07/12/2011 13:30	COMPLETE	LR 2	10031836	S.F. Lemonweir River - Tomah Lake Outflow

Documents

Title	Description	Author	Published	Comments
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Budget

Budget Description:Budget for Lake Tomah Tier III - WCR 7_11 **Start Date:** 07/01/2010 **End Date:** 06/30/2011

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
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Wisconsin Department of Natural Resources SWIMS Project Summary

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours		Hours	\$26.00	\$0.00	200 @ 26/HOUR
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	1		\$356.00	\$356.00	
MILEAGE	Mileage	2000	Miles	\$0.72	\$1,440.00	
MEAL	Meals	34	Meals	\$9.00	\$306.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$1,746.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
EQUIP	Equipment	2		\$577.00	\$1,154.00	water level loggers
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$3,256.00	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I251UNF	CHLOROPHYLL A, FLUORESCENCE, FF (EPA 445.0)	INORGANIC CHEMISTRY	8	\$23.28	\$186.24
I520PLD	TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)	INORGANIC CHEMISTRY	52	\$23.60	\$1,227.20
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	60	\$23.60	\$1,416.00
I650JLT	SUSPENDED SOLIDS (EPA METHOD 160.2)	INORGANIC CHEMISTRY	26	\$18.80	\$488.80

Total SLOH Lab Costs: \$3,318.24

Total Budget: \$6,574.24

Combined Budgets: \$3,256.00

Combined SLOH: \$3,318.24

Combined Total: \$6,574.24

Funding

Organization	Source	Type	Amount	Start Date	End Date
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