

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: NER_02_CMP11
Name: Upper Fox/Wolf Basin TMDL Monitoring - NER 02_11
Type: Targeted Monitoring
Subtype: Newly Proposed
Status: ACTIVE
Start Date: 07/01/2010
End Date: 06/30/2011
Purpose: **3rd year of monitoring for the Upper Fox Basin**
****1st year of monitoring for the Wolf River Basin****

NER biologists and CO SWAT will collect water samples from the Upper Fox Basin waterbodies of Fox River, Puchyan River, Fon du Lac River, Montello River, Waukau Creek, the Wolf Basin waterbodies of the Wolf River, Little Wolf River, Embarrass River, Waupaca River, and lakes Poygan, Winneconne, Butte des Morts, and Winnebago to be analyzed for TSS, Total Phosphorus, and Dissolved Phosphorus that will be used in modeling the sediment and phosphorus loads to Lake Winnebago. Also in collaboration with the USGS, sediment core samples will be collected from Lake Winnebago, Lake Poygan, Lake Winneconne, and Lake Butte des Morts to be used for the quantification of the existing internal nutrient load within the system. Results of the modeling will be used in developing a TMDL for Lake Winnebago to drive management practices in the Upper Fox Basin.

Objective: The development of a TMDL to address the phosphorus and sediment loading to Lake Winnebago is necessary because 50% of the nutrient and sediment load to the Lower Fox River is directly from Lake Winnebago. In order for the Lower Fox TMDL (currently in development) to meet its goals, reducing the pollutant load from Lake Winnebago is critical.

The Objective of this project is to address phosphorus and sediment loading from the Upper Fox River Basin and Wolf River Basin to Lake Winnebago, and therefore support the work of the Lower Fox River Basin TMDL. This will be the 3rd of 3 years of data needed from the Upper Fox Basin sites, and the 1st of 3 years of monitoring in the Wolf River Basin to accurately model the sediment and phosphorus loading to Lake Winnebago.

Comments: Project Category 3: Continuation of FY2010 Special Projects

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) 15 sample sites
- 2) 30 sampling events
- 3) Sample collection will run throughout the entire fiscal year, 06/30/2011.
- 4) All data loading is automated so it goes to the appropriate database immediately after analysis results are posted, 06/30/2011.
- 5) The final TMDL report will be completed after all of the monitoring data is collected and pollutant loads are estimated. Completion of the final TMDL report for this project is estimated to be September 2014.

Project Statuses

Date	Reported By	Status	Comments
03/04/2010	MOLLI MACDONALD	Proposed	
12/07/2010	MOLLI MACDONALD	Progress: 25-50% Compl	74 field events so far. If you want any scheduled field events deleted just change their status to cancelled and a SWIMS file manager will take care of it. Looks like all sampling is for TP, Diss P and Suspended Sediments. Project said Kjeldahl, Ammonia and Chl a would also be taken. 16 sites listed rather than the proposed 15. Need January status update.
02/01/2011	MICHAEL GILBERTSON	Progress: 50-75% Compl	Not many more samples collected since December because the sites are frozen over. The TKN, Ammonia, and Chl a analysis is for lake samples. Tributary samples are analyzed for TSS, TP, and TDP. When the ice is gone, intensive sampling will resume. Jay Schiefelbein will take over lake sampling from Mark Sesing (retiring). Chris Pracheil will be involved in this sampling effort.

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Project Status Detail

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	15 sample sites -- station ids 593162, 10022877, 243020, 713252, 713279, 713282, 693217, 10022879, 10022878, 10028935, 10028934, 10028936, 713285, 693161, 693218.
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	30 sample events
3. Proposed Dates for Sample Collection	Throughout the year
4. List applicable databases and who will enter data?	SWIMS database, SLH automatically loads the data into SWIMS.
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?	

People

Name	Role	Status	Start Date	End Date	Organization	Comments
GILBERTSON, MICHAEL A	COORDINATOR	ACTIVE	07/01/2010	06/30/2011	Wisconsin DNR	
JOHNSON, THEODORE M	COORDINATOR	ACTIVE	07/01/2010	06/30/2011	Wisconsin DNR	
MCLENNAN, ROBIN	PROJECT_LEAD	ACTIVE	07/01/2010	06/30/2011	Wisconsin DNR	
REIF, MICHAEL D	COORDINATOR	ACTIVE	07/01/2010	06/30/2011	Wisconsin DNR	
SESING, MARK F	COORDINATOR	INACTIVE	07/01/2010	06/30/2011	Wisconsin DNR	

Actions

Action	Detailed Description	Start Date	End Date	Status
Monitor Targeted Area	Collect surface water samples throughout the Upper Fox River and Wolf River basins to be analyzed for total suspended solids, total phosphorus, and total dissolved phosphorus. Collect sediment cores from the lakes to be used to estimate the internal phosphorus load.	07/01/2010	06/30/2011	PROPOSED

Monitoring Stations

Station ID	Name	Comments
593162	Embarrass River - Near Embarrass, WI USGS Site ID 04078500	
10033493	Embarrass River at New London	
10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545	
713002	Fox River - Lake Winnebago Outlet	
243020	Fox River at Berlin, WI USGS Site ID 04073500	
713252	Lake Butte Des Morts - East End Bu3	
713279	Lake Poygan - East (P03)	
713243	Lake Winnebago - 2 Mi From Neenah	
713245	Lake Winnebago - 3 Mi Oshkosh	
713244	Lake Winnebago - Deep Hole-South End	
713282	Lake Winneconne - Central (Wi-2)	
693217	Little Wolf River at Royalton, WI USGS Site ID 04080000	
10022879	Montello River At 11th St. Bridge USGS Site ID 04072845	
10022878	Puchyan River At N. Lawson St. Bridge USGS Site ID	

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Station ID	Name	Comments
	04073473	
713285	Waukau Creek at Cth E USGS Site ID 04073970	
693161	Waupaca River at Harrington Rd USGS Site ID 04081000	
693218	Wolf River at New London, WI USGS Site ID 04079000	

Assessment Units

WBIC	Segment	Local Name	Official Name
117900	3	Lower Fox River (Appleton Dam To L. Winnebago Outlet)	Fox River
131100	1	Lake Winnebago	Lake Winnebago
133700	1	Fond Du Lac River	Fond Du Lac River
139900	1	Lake Butte Des Morts	Lake Butte des Morts
140700	2	Waukau Creek	Waukau Creek
164100	1	Montello River	Montello River
241300	2	Wolf River-Main Stem	Wolf River
241600	1	Winneconne Lake	Lake Winneconne
242800	1	Poygan Lake	Lake Poygan
257400	1	Waupaca River	Waupaca River
272400	1	Little Wolf River	Little Wolf River
291900	1	Embarrass River	Embarrass River

Lab Account Codes

Account Code	Description	Start Date	End Date
WT115	TMDL FOR UPPER FOX RIVER	06/03/2010	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
07/13/2010 10:10	COMPLETE		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
07/13/2010 11:00	COMPLETE		713285	Waukau Creek at Cth E USGS Site ID 04073970
07/13/2010 11:30	COMPLETE		243020	Fox River at Berlin, WI USGS Site ID 04073500
07/13/2010 11:50	COMPLETE		10022878	Puchyan River At N. Lawson St. Bridge USGS Site ID 04073473
07/13/2010 12:30	COMPLETE		10022879	Montello River At 11th St. Bridge USGS Site ID 04072845
07/14/2010 18:30	COMPLETE		713285	Waukau Creek at Cth E USGS Site ID 04073970
07/14/2010 20:20	COMPLETE		713285	Waukau Creek at Cth E USGS Site ID 04073970
07/14/2010 23:50	COMPLETE		713285	Waukau Creek at Cth E USGS Site ID 04073970
07/22/2010	SCHEDULED		713002	Fox River - Lake Winnebago Outlet
07/22/2010	SCHEDULED		693218	Wolf River at New London, WI USGS Site ID 04079000
07/23/2010 08:50	COMPLETE		713002	Fox River - Lake Winnebago Outlet
07/23/2010 09:45	COMPLETE		693218	Wolf River at New London, WI USGS Site ID 04079000
07/23/2010 10:15	COMPLETE		693217	Little Wolf River at Royalton, WI USGS Site ID 04080000

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Start Date	Status	Field ID	Station ID	Station Name
07/23/2010 10:40	COMPLETE		693161	Waupaca River at Harrington Rd USGS Site ID 04081000
07/23/2010 12:15	COMPLETE		593162	Embarrass River - Near Embarrass, WI USGS Site ID 04078500
07/27/2010 09:50	COMPLETE		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
07/27/2010 11:00	COMPLETE		713285	Waukau Creek at Cth E USGS Site ID 04073970
07/27/2010 11:40	COMPLETE		243020	Fox River at Berlin, WI USGS Site ID 04073500
07/27/2010 12:00	COMPLETE		10022878	Puchyan River At N. Lawson St. Bridge USGS Site ID 04073473
07/27/2010 12:45	COMPLETE		10022879	Montello River At 11th St. Bridge USGS Site ID 04072845
08/05/2010	SCHEDULED		693218	Wolf River at New London, WI USGS Site ID 04079000
08/05/2010 09:15	COMPLETE		693218	Wolf River at New London, WI USGS Site ID 04079000
08/05/2010 09:40	COMPLETE		693217	Little Wolf River at Royalton, WI USGS Site ID 04080000
08/05/2010 10:10	COMPLETE		693161	Waupaca River at Harrington Rd USGS Site ID 04081000
08/05/2010 11:15	COMPLETE		593162	Embarrass River - Near Embarrass, WI USGS Site ID 04078500
08/19/2010 10:00	COMPLETE		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
08/19/2010 11:20	COMPLETE		713285	Waukau Creek at Cth E USGS Site ID 04073970
08/19/2010 11:45	COMPLETE		243020	Fox River at Berlin, WI USGS Site ID 04073500
08/19/2010 12:10	COMPLETE		10022878	Puchyan River At N. Lawson St. Bridge USGS Site ID 04073473
08/19/2010 12:50	COMPLETE		10022879	Montello River At 11th St. Bridge USGS Site ID 04072845
08/27/2010 08:40	COMPLETE		713002	Fox River - Lake Winnebago Outlet
08/27/2010 09:30	COMPLETE		693218	Wolf River at New London, WI USGS Site ID 04079000
08/27/2010 10:10	COMPLETE		693217	Little Wolf River at Royalton, WI USGS Site ID 04080000
08/27/2010 10:40	COMPLETE		693161	Waupaca River at Harrington Rd USGS Site ID 04081000
08/27/2010 11:40	COMPLETE		593162	Embarrass River - Near Embarrass, WI USGS Site ID 04078500
09/01/2010 10:10	COMPLETE		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
09/01/2010 10:50	COMPLETE		713285	Waukau Creek at Cth E USGS Site ID 04073970
09/01/2010 11:15	COMPLETE		243020	Fox River at Berlin, WI USGS Site ID 04073500
09/01/2010 11:40	COMPLETE		10022878	Puchyan River At N. Lawson St. Bridge USGS Site ID 04073473
09/01/2010 12:15	COMPLETE		10022879	Montello River At 11th St. Bridge USGS Site ID 04072845
09/14/2010	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
09/14/2010	SCHEDULED		713285	Waukau Creek at Cth E USGS Site ID 04073970
09/14/2010	SCHEDULED		10022879	Montello River At 11th St. Bridge USGS Site ID 04072845
09/14/2010	SCHEDULED		243020	Fox River at Berlin, WI USGS Site ID 04073500
09/15/2010 10:00	COMPLETE		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
09/15/2010 10:50	COMPLETE		713285	Waukau Creek at Cth E USGS Site ID 04073970
09/15/2010 11:30	COMPLETE		243020	Fox River at Berlin, WI USGS Site ID 04073500
09/15/2010 12:15	COMPLETE		10022878	Puchyan River At N. Lawson St. Bridge USGS Site ID 04073473
09/15/2010 12:45	COMPLETE		10022879	Montello River At 11th St. Bridge USGS Site ID 04072845
09/16/2010 09:15	COMPLETE		693218	Wolf River at New London, WI USGS Site ID 04079000
09/16/2010 09:40	COMPLETE		693217	Little Wolf River at Royalton, WI USGS Site ID 04080000
09/16/2010 10:00	COMPLETE		693161	Waupaca River at Harrington Rd USGS Site ID 04081000
09/16/2010 11:30	COMPLETE		593162	Embarrass River - Near Embarrass, WI USGS Site ID 04078500
09/24/2010 10:30	COMPLETE		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
09/24/2010 11:30	COMPLETE		713285	Waukau Creek at Cth E USGS Site ID 04073970

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09/24/2010 11:50	COMPLETE		243020	Fox River at Berlin, WI USGS Site ID 04073500
09/24/2010 12:20	COMPLETE		10022878	Puchyan River At N. Lawson St. Bridge USGS Site ID 04073473
09/24/2010 13:00	COMPLETE		10022879	Montello River At 11th St. Bridge USGS Site ID 04072845
09/30/2010 09:00	COMPLETE		713002	Fox River - Lake Winnebago Outlet
09/30/2010 09:50	COMPLETE		693218	Wolf River at New London, WI USGS Site ID 04079000
09/30/2010 10:20	COMPLETE		693217	Little Wolf River at Royalton, WI USGS Site ID 04080000
09/30/2010 10:45	COMPLETE		693161	Waupaca River at Harrington Rd USGS Site ID 04081000
09/30/2010 11:40	COMPLETE		593162	Embarrass River - Near Embarrass, WI USGS Site ID 04078500
11/08/2010 09:40	COMPLETE		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
11/08/2010 10:20	COMPLETE		713285	Waukau Creek at Cth E USGS Site ID 04073970
11/08/2010 10:45	COMPLETE		243020	Fox River at Berlin, WI USGS Site ID 04073500
11/08/2010 11:00	COMPLETE		10022878	Puchyan River At N. Lawson St. Bridge USGS Site ID 04073473
11/08/2010 11:40	COMPLETE		10022879	Montello River At 11th St. Bridge USGS Site ID 04072845
11/12/2010 07:45	COMPLETE		713002	Fox River - Lake Winnebago Outlet
11/12/2010 08:30	COMPLETE		693218	Wolf River at New London, WI USGS Site ID 04079000
11/12/2010 09:00	COMPLETE		693217	Little Wolf River at Royalton, WI USGS Site ID 04080000
11/12/2010 09:25	COMPLETE		693161	Waupaca River at Harrington Rd USGS Site ID 04081000
11/12/2010 10:30	COMPLETE		593162	Embarrass River - Near Embarrass, WI USGS Site ID 04078500
03/11/2011 14:40	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
03/14/2011 19:55	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
03/16/2011 14:05	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
03/16/2011 19:25	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
03/17/2011	SCHEDULED		693217	Little Wolf River at Royalton, WI USGS Site ID 04080000
03/17/2011	SCHEDULED		713002	Fox River - Lake Winnebago Outlet
03/17/2011	SCHEDULED		593162	Embarrass River - Near Embarrass, WI USGS Site ID 04078500
03/17/2011	SCHEDULED		693161	Waupaca River at Harrington Rd USGS Site ID 04081000
03/17/2011	SCHEDULED		693218	Wolf River at New London, WI USGS Site ID 04079000
03/17/2011 00:45	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
03/17/2011 08:45	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
03/18/2011	SCHEDULED		10022878	Puchyan River At N. Lawson St. Bridge USGS Site ID 04073473
03/18/2011	SCHEDULED		10022879	Montello River At 11th St. Bridge USGS Site ID 04072845
03/18/2011	SCHEDULED		243020	Fox River at Berlin, WI USGS Site ID 04073500
03/18/2011	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
03/18/2011	SCHEDULED		713285	Waukau Creek at Cth E USGS Site ID 04073970
03/18/2011 17:20	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
03/19/2011 02:40	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
03/19/2011 16:00	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
03/24/2011	SCHEDULED		10022879	Montello River At 11th St. Bridge USGS Site ID 04072845
03/24/2011	SCHEDULED		10022878	Puchyan River At N. Lawson St. Bridge USGS Site ID 04073473
03/24/2011	SCHEDULED		713285	Waukau Creek at Cth E USGS Site ID 04073970
03/24/2011	SCHEDULED		243020	Fox River at Berlin, WI USGS Site ID 04073500
03/24/2011	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
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03/24/2011	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
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03/24/2011	SCHEDULED		693218	Wolf River at New London, WI USGS Site ID 04079000
03/24/2011	SCHEDULED		693161	Waupaca River at Harrington Rd USGS Site ID 04081000
03/24/2011	SCHEDULED		693217	Little Wolf River at Royalton, WI USGS Site ID 04080000
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03/30/2011	SCHEDULED		693161	Waupaca River at Harrington Rd USGS Site ID 04081000
03/30/2011	SCHEDULED		693218	Wolf River at New London, WI USGS Site ID 04079000
04/01/2011	SCHEDULED		10022877	Fond Du Lac River At W. Arndt St. USGS Site ID 04083545
04/01/2011	SCHEDULED		243020	Fox River at Berlin, WI USGS Site ID 04073500
04/01/2011	SCHEDULED		10022879	Montello River At 11th St. Bridge USGS Site ID 04072845
04/01/2011	SCHEDULED		10022878	Puchyan River At N. Lawson St. Bridge USGS Site ID 04073473
04/01/2011	SCHEDULED		713285	Waukau Creek at Cth E USGS Site ID 04073970
04/07/2011	SCHEDULED		10033493	Embarrass River at New London
04/08/2011	SCHEDULED		243020	Fox River at Berlin, WI USGS Site ID 04073500
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	SCHEDULED		10022878	Puchyan River At N. Lawson St. Bridge USGS Site ID 04073473

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Title	Description	Author	Published	Comments
FOX RIVER-OSHKOSH CHLOROPHYLL a TOTAL PHOSPHORUS WATER QUALITY ANALYSES Part 1	Analyses of the relationship of TP concentrations to Chlorophyll a concentrations in the Fox River Oshkosh	Michael D. Reif	12/17/2010	
FOX RIVER-OSHKOSH CHLOROPHYLL a TOTAL PHOSPHORUS WATER QUALITY ANALYSES Part 2	Analyses of the Chlorophyll a and Total Phosphorus relationships in the Fox River in Oshkosh	Michael D. Reif	12/17/2010	This project was conducted between 1985 and 1987 but the Chl. a to TP relationships documented are still applicable to evaluating the water quality of the Fox River in Oshkosh

Budget

Code	Description	Quantity	Units	Unit Cost	Total Cost
FTE	FTE Hours		Hours	\$0.00	\$0.00
LTE SAL	LTE Salary		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		\$200.00	\$200.00
MILEAGE	Mileage	17000	Miles	\$0.72	\$12,240.00
MEAL	Meals	60	Meals	\$9.00	\$540.00
LODGE	Lodging				\$0.00
TRAVEL	Travel Total				\$12,780.00
BUG	Bug Contracts				\$0.00
OTHER	Other Contracts	1		\$15,000.00	\$15,000.00
EQUIP	Equipment				\$0.00
USGS	USGS Costs	1		\$18,000.00	\$18,000.00
TOTAL	Total Cost (excludes SLOH)				\$45,980.00

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I251UNL	CHLOROPHYLL A, FLUORESCENCE (EPA 445.00)	INORGANIC CHEMISTRY	66	\$24.52	\$1,618.32
I440NLD	AMMONIA (AS N), DISS (EPA 350.1)	INORGANIC CHEMISTRY	66	\$25.89	\$1,708.74
I470DLT	TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)	INORGANIC CHEMISTRY	66	\$32.99	\$2,177.34
I520PLD	TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)	INORGANIC CHEMISTRY	140	\$23.60	\$3,304.00
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	420	\$23.60	\$9,912.00

Total SLOH Lab Costs: \$18,720.40