

Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: CO_02_CMP13

Name: Wolf_Basin_TMDL_Monitoring - CO_02_CMP13

Type: TMDL/303d Projects

Subtype: Refine Load Estimates

Status: COMPLETE

Start Date: 7/1/2012

End Date: 12/31/2012

Purpose: This is the 3rd and final year of monitoring for TMDL development for the Wolf River Basin. East District Biologists will collect water samples from the waters of the Wolf River Basin including: the Wolf River (241300), Little Wolf River (272400), Waupaca (257400) and Embarrass River (291900), and the Outlet of Lake Winnebago (117900-LFR). These samples will be analyzed for TSS, TP, and dissolved P and will be used in the modeling to calculate loads for the Upper Fox/Wolf TMDL.

Objective: The development of a TMDL to address TP and sediment loading to Lake Winnebago is necessary. 50% of the nutrient and sediment load to the Lower Fox River and Green Bay is from Lake Winnebago and upstream. In order for the Lower Fox River TMDL to meet water quality goals, upstream loads must be addressed. This project will finish up the final year of monitoring in order to model the Upper Fox/Wolf TMDL. This project is in partnership with USGS.

Comments: Continuing Project (since 2009)

Outcome: 14 sampling events will be covered in the Wolf Basin, with a total of 6 sample sites. Sample collection is projected to end in December 2012. These samples will be analyzed for TSS, TP, and dissolved P and will be used in the modeling to calculate loads for the Upper Fox/Wolf TMDL. Results of the modeling will also be used to drive management decisions to improve water quality in the Upper Fox/Wolf Basin.

Study Design:

QA Measures:

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
CLAYTON, NICOLE L	PROJECT_LEAD	COMPLETE	7/1/2012	6/30/2013	Wisconsin DNR	
Hudak, Andrew J	TEAM_MEMBER	COMPLETE	7/1/2012	6/30/2013	Wisconsin DNR	
KORALESKY, KRYSTA M	TEAM_MEMBER	ACTIVE	7/1/2012	12/31/2012	Wisconsin DNR	She is the contact.
MARQUARDT, KEITH A	COORDINATOR	ACTIVE	11/7/2012		Wisconsin DNR	
McLennan, Robin	SUPERVISOR	COMPLETE	7/1/2012	6/30/2013	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
3/15/2012	MOLLI MACDONALD	Proposed	
1/28/2013	RUTH PERSON	Complete	Rob McLennan verified that this project is complete as of 12/14/2012. The final report was uploaded on 12/14/2012.

Actions

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Action	Detailed Description	Start Date	End Date	Status
Monitor Targeted Area	Collect surface water samples throughout the Wolf River Basin to be analyzed for total P, dissolved P and TSS for TMDL development. Wolf River Basin including: the Wolf River (241300), Little Wolf River (272400), Waupaca (257400) and Embarrass River (291900), and the Outlet of Lake Winnebago (117900-LFR)	7/1/2012	12/31/2012	COMPLETE

Details: Parameter	Value/Amount	Units	Comments
Habitat Sampled			
Monitoring			
Report Writeup			

Monitoring Stations		
Station ID	Name	Comments
593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500	
10033493	Embarrass River at New London Hwy 54	
713002	Fox River - Lake Winnebago Outlet	
693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)	
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
130600	1	Neenah Channel	Neenah Channel
241300	2	Wolf River-Main Stem	Wolf River
257400	7	Waupaca River	Waupaca River
272400	1	Little Wolf River	Little Wolf River
291900	1	Embarrass River	Embarrass River
291900	3	Embarrass River	Embarrass River

Lab Account Codes			
Account Code	Description	Start Date	End Date
WT142	303D/TMDL MONITORING	5/3/2011	6/30/2014

Forms	
Form Code	Form Name

Methods	
Method Code	Method Description

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Fieldwork Events				
Start Date	Status	Field ID	Station ID	Station Name
7/5/2012 9:55	COMPLETE		713002	Fox River - Lake Winnebago Outlet
7/5/2012 11:02	COMPLETE		10033493	Embarrass River at New London Hwy 54
7/5/2012 11:23	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000
7/5/2012 11:50	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
7/5/2012 12:20	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
7/5/2012 13:48	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500
7/17/2012 9:40	COMPLETE		713002	Fox River - Lake Winnebago Outlet
7/17/2012 10:47	COMPLETE		10033493	Embarrass River at New London Hwy 54
7/17/2012 11:05	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000
7/17/2012 11:36	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
7/17/2012 12:08	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
7/17/2012 13:35	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500
8/1/2012 10:16	COMPLETE		713002	Fox River - Lake Winnebago Outlet
8/1/2012 11:13	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000
8/1/2012 11:38	COMPLETE		10033493	Embarrass River at New London Hwy 54
8/1/2012 12:04	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
8/1/2012 12:37	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
8/1/2012 14:06	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500
8/15/2012 8:47	COMPLETE		713002	Fox River - Lake Winnebago Outlet
8/15/2012 9:56	COMPLETE		10033493	Embarrass River at New London Hwy 54
8/15/2012 10:16	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000
8/15/2012 10:45	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
8/15/2012 11:16	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
8/15/2012 12:53	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500
8/28/2012 9:51	COMPLETE		713002	Fox River - Lake Winnebago Outlet
8/28/2012 10:58	COMPLETE		10033493	Embarrass River at New London Hwy 54
8/28/2012 11:16	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000
8/28/2012 11:41	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
8/28/2012 12:09	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
8/28/2012 15:53	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500

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9/13/2012 9:11	COMPLETE		713002	Fox River - Lake Winnebago Outlet
9/13/2012 10:05	COMPLETE		10033493	Embarrass River at New London Hwy 54
9/13/2012 10:20	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000
9/13/2012 10:48	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
9/13/2012 11:15	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
9/13/2012 12:36	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500
9/25/2012 9:43	COMPLETE		713002	Fox River - Lake Winnebago Outlet
9/25/2012 10:47	COMPLETE		10033493	Embarrass River at New London Hwy 54
9/25/2012 11:06	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000
9/25/2012 11:38	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
9/25/2012 12:12	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
9/25/2012 15:47	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500
10/9/2012 9:33	COMPLETE		713002	Fox River - Lake Winnebago Outlet
10/9/2012 10:26	COMPLETE		10033493	Embarrass River at New London Hwy 54
10/9/2012 10:42	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000
10/9/2012 11:05	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
10/9/2012 11:34	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
10/9/2012 12:46	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500
10/17/2012 9:03	COMPLETE		713002	Fox River - Lake Winnebago Outlet
10/17/2012 10:01	COMPLETE		10033493	Embarrass River at New London Hwy 54
10/17/2012 10:14	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000
10/17/2012 10:36	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
10/17/2012 11:01	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
10/17/2012 12:10	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500
10/26/2012 9:13	COMPLETE		713002	Fox River - Lake Winnebago Outlet
10/26/2012 10:16	COMPLETE		10033493	Embarrass River at New London Hwy 54
10/26/2012 10:32	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000
10/26/2012 10:57	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
10/26/2012 11:24	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
10/26/2012 14:28	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500
11/6/2012 8:47	COMPLETE		713002	Fox River - Lake Winnebago Outlet
11/6/2012 10:12	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000

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11/6/2012 10:38	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
11/6/2012 11:06	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
11/6/2012 12:25	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500
11/6/2012 14:43	COMPLETE		10033493	Embarrass River at New London Hwy 54
11/20/2012 9:45	COMPLETE		713002	Fox River - Lake Winnebago Outlet
11/20/2012 10:40	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000
11/20/2012 11:00	COMPLETE		10033493	Embarrass River at New London Hwy 54
11/20/2012 11:45	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
11/20/2012 12:15	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
11/20/2012 14:10	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500
12/5/2012 9:46	COMPLETE		713002	Fox River - Lake Winnebago Outlet
12/5/2012 10:42	COMPLETE		10033493	Embarrass River at New London Hwy 54
12/5/2012 11:00	COMPLETE		693218	Wolf River at New London WI USGS Site ID 04079000
12/5/2012 11:22	COMPLETE		693217	Little Wolf River - Hwy 54 (at Royalton WI USGS Site ID 04080000)
12/5/2012 11:49	COMPLETE		693161	Waupaca River at Harrington Rd (USGS Site ID 04081000)
12/5/2012 13:06	COMPLETE		593162	Embarrass River - Near Embarrass WI USGS Site ID 04078500

Documents

Title	Description	Author	Published	Comments
Fox River Monitoring Photo	Wolf River Basin including: the Wolf River (241300), Little Wolf River (272400), Waupaca (257400) and Embarrass River (291900), and the Outlet of Lake Winnebago (117900-LFR)	Unknown	4/8/2014	
Wolf TMDL monitoring 2010 -2012		Krysta Koralesky	12/14/2012	

Budget

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Budget Description: Budget for Upper Fox/Wolf Basin TMDL Monitoring **Start Date:** 6/30/2012 **End Date:** 7/1/2013

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours		Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	240	Hours	\$16.00	\$3,840.00	
LTE FR	LTE Fringe				\$948.48	
LTE IND	LTE Indirect				\$774.30	
LTE TOT	LTE Total Cost				\$5,562.78	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	200	Miles	\$0.72	\$144.00	
MEAL	Meals	16	Meals	\$9.00	\$144.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$288.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$5,850.78	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I520PLD	TOTAL DISS PHOSPHORUS (AS P), (EPA 365.1)	INORGANIC CHEMISTRY	36	\$23.60	\$849.60
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	96	\$23.60	\$2,265.60
I650JLT	SUSPENDED SOLIDS (EPA METHOD 160.2)	INORGANIC CHEMISTRY	96	\$18.80	\$1,804.80

Total WSLH Lab Costs: \$4,920.00

Total Budget: \$10,770.78

Combined Budgets: \$5,850.78

Combined WSLH: \$4,920.00

Combined Total: \$10,770.78

Funding

Organization	Source	Type	Amount	Start Date	End Date
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