

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: East_TWA_7_2015

Name: Lower Little Wolf TWA 2015

Type: Targeted Watershed Approach

Subtype: Effectiveness (BMP, Other)

Status: COMPLETE

Start Date: 03/01/2015

End Date: 12/31/2016

Purpose: This project will evaluate water quality improvements made in the Lower Little Wolf River Watershed from Best Management Practices installed in the watershed from 1997 through 2008 as part of the Lower Little Wolf River Priority Watershed Project. [TWA HUC10-0403020217]

Objective: This project will evaluate the effectiveness of BMPs installed in 4 HUC 12 watersheds in the Lower Little Wolf River HUC 10-0403020217 watershed following a Priority Watershed Project in 1997. This project will determine if the goals of the Priority Watershed Project to protect and improve the watershed water quality were met.

Monitoring will be conducted in 9 WBICs: 279600, 280100, 272400, 280700, 280900, 283000, 283100, 283400, 284900.

Aquatic macroinvertebrate samples will be collected at 11 locations. Quantitative Habitat assessments will be conducted at 11 locations. Fish surveys will be conducted at 14 locations. Temperature thermistors will be deployed at 16 locations. Inorganic chemistry (TP, TDP, TSS and NO3) monitoring will be conducted at 12 locations.

Comments: This is a 1 year project.

Outcome: Water quality monitoring will be conducted at 18 locations.

Aquatic macroinvertebrates will be collected at 11 locations in October 2015. Two days of sampling and 1 day to represerve and transport to UWSP. All data will be entered into SWIMS database by UWSP staff by 12/30/2016.

Quantitative Habitat surveys will be conducted at 11 locations in FY16. Four sampling days in FY16 are needed to complete this monitoring and 1 day to enter the data into database. All data will be entered into FMDB by Water Resources staff by 12/31/2015.

Fish surveys will be conducted at 14 locations in FY16. Six days of sampling will be completed for the field surveys from July through September 2015. All fish data will be entered into the FMDB by Water Resources staff by 12/31/2015.

Thermistors will be deployed at 16 locations from May to October 2015 to collect temperature data. Six sampling days will occur to deploy and retrieve the thermistors. All data will be uploaded into SWIMS by Water Resources staff by 06/30/2016.

Inorganic chemistry (TP, TDP, TSS and NO3) monitoring will be conducted at 12 locations. Sampling will occur once per month May through October 2015 for TP at 12 locations. Sampling will occur once per month May through October 2015 for TSS at 10 locations. Sampling for TDP and NO3 at 12 locations once per month in May, July, and September 2015. All samples will be sent to Wisconsin State Lab of Hygiene for analysis and will be entered by the lab into SWIMS by 06/30/2016.

A final report will be written and attached to this project by 12/31/2016.

Study Design: Aquatic macroinvertebrate samples will be collected at 11 locations. Quantitative Habitat assessments will be conducted at 11 locations. Fish surveys will be conducted at 14 locations. Temperature thermistors will be deployed at 16 locations. Inorganic chemistry (TP, TDP, TSS and NO3) monitoring will be conducted at 12 locations.

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
BOLHA, DAVID A	PROJECT_LEAD	ACTIVE	03/01/2015	12/31/2016	Wisconsin DNR	
Dickmann, Jacob C	TEAM_MEMBER	ACTIVE	03/01/2015	12/31/2016	Wisconsin DNR	
MAASS, JEREMY L	TEAM_MEMBER	ACTIVE	03/01/2015	12/31/2016	Wisconsin DNR	

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Project Statuses

Date	Reported By	Status	Comments
02/05/2015	DAVID BOLHA	Complete	

Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	
3. Proposed Dates for Sample Collection	
4. List applicable databases and who will enter data?	
5. Did you receive competitive projects funding in the previous year?	
6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not?	
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 Targeted Watershed Area (TWA)	This project will evaluate water quality improvements made in the Lower Little Wolf River Watershed from Best Management Practices installed in the watershed from 1997 through 2008 as part of the Lower Little Wolf River Priority Watershed Project. [TWA HUC10-0403020217]. Monitoring will be conducted in 9 WBICs: 279600, 280100, 272400, 280700, 280900, 283000, 283100, 283400, 284900.	*****	12/31/2016	COMPLETE

Monitoring Stations

Station ID	Name	Comments
10030800	Beaver Creek - 280 ft downstream CTH O	
10015752	Blake Creek - Downstream 1050 Feet Of Cth Eculvert	
10016782	Blake Creek - Upstream Of County Highway K	
693154	Blake Creek North Fork at Cth E	
693158	Blake Creek at Sh 161	
693129	Blake Creek at State Highway 22	
693145	Little Creek at Cth O	
693147	Little Wolf River - Near Symco	
693141	Little Wolf River at Cth Bb	
693151	Little Wolf River at Cth C	
10043199	Little Wolf River at Railroad St Trail	
693163	Lower Little Wolf River at Bridge Rd	

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Station ID	Name	Comments
693131	Shaw Creek at Cth O	
10013573	South Fork Blake Creek-Upstream Hwy E	
693130	Spaulding Creek at Cth G	
693142	Spiegelberg Creek at Sh 22 Wayside and Cemetery Rd	
693162	Thiel Creek at Cemetery Road	
693143	Thiel Creek at Swan Road	
10016223	Whitcomb Creek - County Highway 00	
693128	Whitcomb Creek at Cth E	

Assessment Units

WBIC	Segment	Local Name	Official Name
272400	1	Little Wolf River	Little Wolf River
272400	2	Little Wolf River	Little Wolf River
279600	1	Spielgelburg Creek	Spiegelberg Creek
280100	1	Thiel Creek	Thiel Creek
280700	1	Little Creek	Little Creek
280900	1	Blake Creek	Blake Creek
280900	2	Blake Creek	Blake Creek
281500	1	Blake Creek-N. Fork	North Fork Blake Creek
282100	1	Blake Creek-S. Fork	South Fork Blake Creek
283000	1	Beaver Creek	Beaver Creek
283100	1	Shaw Creek	Shaw Creek
283400	1	Whitcomb Creek	Whitcomb Creek
284900	1	Spaulding Creek	Spaulding Creek

Lab Account Codes

Account Code	Description	Start Date	End Date
WQ012	319 PROJECT FUNDED TWA	03/24/2015	12/31/2015

Forms

Form Code	Form Name
CONTINUOUS	Continuous Data Upload
FIELD CHEMISTRY FOI	Field Chemistry Form
INORGANIC	Inorganic Lab - Field Data
WADEABLE_MACRO_F	Wadeable Macroinvertebrate Field & Habitat Data

Methods

Method Code	Description
DNR-FPM-1001.3	Benthic Invertebrate - D-Frame Net
GRAB SAMPLE	Water Grab Sample (2005) Guidelines and Procedures

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
05/19/2015	COMPLETE	NA	693131	Shaw Creek at Cth O
05/19/2015 11:00	COMPLETE	NA	693130	Spaulding Creek at Cth G
05/19/2015 11:30	COMPLETE	NA	693151	Little Wolf River at Cth C
05/19/2015 11:45	COMPLETE	NA	10016223	Whitcomb Creek - County Highway 00

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Start Date	Status	Field ID	Station ID	Station Name
05/19/2015 12:10	COMPLETE	NA	693129	Blake Creek at State Highway 22
05/19/2015 12:30	COMPLETE	NA	693163	Lower Little Wolf River at Bridge Rd
05/19/2015 13:00	COMPLETE	NA	10043199	Little Wolf River at Railroad St Trail
05/19/2015 13:30	COMPLETE	NA	693142	Spiegelberg Creek at Sh 22 Wayside and Cemetery Rd
05/19/2015 13:50	COMPLETE	NA	693143	Thiel Creek at Swan Road
05/19/2015 14:00	COMPLETE	NA	693141	Little Wolf River at Cth Bb
05/19/2015 14:25	COMPLETE	NA	693145	Little Creek at Cth O
05/19/2015 14:40	COMPLETE	NA	10030800	Beaver Creek - 280 ft downstream CTH O
06/16/2015 10:15	COMPLETE	NA	693145	Little Creek at Cth O
06/16/2015 10:35	COMPLETE	NA	10030800	Beaver Creek - 280 ft downstream CTH O
06/16/2015 10:45	COMPLETE	NA	693131	Shaw Creek at Cth O
06/16/2015 11:20	COMPLETE	NA	693130	Spaulding Creek at Cth G
06/16/2015 11:44	COMPLETE	NA	693151	Little Wolf River at Cth C
06/16/2015 12:20	COMPLETE	NA	10016223	Whitcomb Creek - County Highway 00
06/16/2015 12:35	COMPLETE	NA	693129	Blake Creek at State Highway 22
06/16/2015 13:30	COMPLETE	NA	10043199	Little Wolf River at Railroad St Trail
06/16/2015 14:00	COMPLETE	NA	693163	Lower Little Wolf River at Bridge Rd
06/16/2015 14:23	COMPLETE	NA	693142	Spiegelberg Creek at Sh 22 Wayside and Cemetery Rd
06/16/2015 14:50	COMPLETE	NA	693143	Thiel Creek at Swan Road
06/16/2015 15:05	COMPLETE	NA	693141	Little Wolf River at Cth Bb
07/21/2015 10:00	COMPLETE	NA	693130	Spaulding Creek at Cth G
07/21/2015 10:20	COMPLETE	NA	693151	Little Wolf River at Cth C
07/21/2015 10:45	COMPLETE	NA	10016223	Whitcomb Creek - County Highway 00
07/21/2015 11:00	COMPLETE	NA	693163	Lower Little Wolf River at Bridge Rd
07/21/2015 12:00	COMPLETE	NA	10043199	Little Wolf River at Railroad St Trail
07/21/2015 12:55	COMPLETE	NA	693142	Spiegelberg Creek at Sh 22 Wayside and Cemetery Rd
07/21/2015 13:10	COMPLETE	NA	693143	Thiel Creek at Swan Road
07/21/2015 14:00	COMPLETE	NA	693131	Shaw Creek at Cth O
07/21/2015 15:15	COMPLETE	NA	10030800	Beaver Creek - 280 ft downstream CTH O
07/21/2015 15:30	COMPLETE	NA	693145	Little Creek at Cth O
07/21/2015 16:00	COMPLETE	NA	693141	Little Wolf River at Cth Bb
07/22/2015 11:10	COMPLETE	NA	693129	Blake Creek at State Highway 22
08/16/2015 11:15	COMPLETE	NA	693151	Little Wolf River at Cth C
08/18/2015 11:00	COMPLETE	NA	693130	Spaulding Creek at Cth G
08/18/2015 11:40	COMPLETE	NA	10016223	Whitcomb Creek - County Highway 00
08/18/2015 12:00	COMPLETE	NA	693129	Blake Creek at State Highway 22
08/18/2015 12:45	COMPLETE	NA	693163	Lower Little Wolf River at Bridge Rd
08/18/2015 13:10	COMPLETE	NA	10043199	Little Wolf River at Railroad St Trail
08/18/2015 13:45	COMPLETE	NA	693142	Spiegelberg Creek at Sh 22 Wayside and Cemetery Rd
08/18/2015 14:10	COMPLETE	NA	693143	Thiel Creek at Swan Road
08/18/2015 14:30	COMPLETE	NA	693141	Little Wolf River at Cth Bb
08/18/2015 14:55	COMPLETE	NA	693145	Little Creek at Cth O
08/18/2015 16:00	COMPLETE	NA	693131	Shaw Creek at Cth O
09/15/2015 09:25	COMPLETE	NA	693130	Spaulding Creek at Cth G
09/15/2015 11:20	COMPLETE	NA	693151	Little Wolf River at Cth C
09/15/2015 11:50	COMPLETE	NA	10016223	Whitcomb Creek - County Highway 00
09/15/2015 11:55	COMPLETE	NA	693129	Blake Creek at State Highway 22
09/15/2015 12:15	COMPLETE	NA	693163	Lower Little Wolf River at Bridge Rd

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Start Date	Status	Field ID	Station ID	Station Name
09/15/2015 12:45	COMPLETE	NA	10043199	Little Wolf River at Railroad St Trail
09/15/2015 13:15	COMPLETE	NA	693143	Thiel Creek at Swan Road
09/15/2015 13:30	COMPLETE	NA	693142	Spiegelberg Creek at Sh 22 Wayside and Cemetery Rd
09/15/2015 13:50	COMPLETE	NA	693141	Little Wolf River at Cth Bb
09/15/2015 14:10	COMPLETE	NA	693145	Little Creek at Cth O
09/15/2015 14:25	COMPLETE	NA	10030800	Beaver Creek - 280 ft downstream CTH O
09/15/2015 14:35	COMPLETE	NA	693131	Shaw Creek at Cth O
10/06/2015	COMPLETE		693151	Little Wolf River at Cth C
10/06/2015	COMPLETE		693131	Shaw Creek at Cth O
10/06/2015	COMPLETE		693130	Spaulding Creek at Cth G
10/15/2015	COMPLETE		10030800	Beaver Creek - 280 ft downstream CTH O
10/15/2015	COMPLETE		693145	Little Creek at Cth O
10/20/2015 11:20	COMPLETE	LOWER LITTLE WO	693163	Lower Little Wolf River at Bridge Rd
10/20/2015 11:20	COMPLETE	SPAULDING CREEI	693130	Spaulding Creek at Cth G
10/20/2015 11:25	COMPLETE	LITTLE WOLF RIVEI	693151	Little Wolf River at Cth C
10/20/2015 11:50	COMPLETE	WHITCOMB CREEK	10016223	Whitcomb Creek - County Highway 00
10/20/2015 13:00	COMPLETE	BLAKE CREEK AT S	693129	Blake Creek at State Highway 22
10/20/2015 13:10	COMPLETE	LITTLE WOLF RIVEI	10043199	Little Wolf River at Railroad St Trail
10/20/2015 13:25	COMPLETE	THIEL CREEK AT S'	693143	Thiel Creek at Swan Road
10/20/2015 13:50	COMPLETE	SPIEGELBERG CRI	693142	Spiegelberg Creek at Sh 22 Wayside and Cemetery Rd
10/20/2015 14:10	COMPLETE	LITTLE WOLF RIVEI	693141	Little Wolf River at Cth Bb
10/20/2015 14:30	COMPLETE	LITTLE CREEK AT C	693145	Little Creek at Cth O
10/20/2015 14:45	COMPLETE	BEAVER CREEK- 2'	10030800	Beaver Creek - 280 ft downstream CTH O
10/20/2015 14:55	COMPLETE	SHAW CREEK AT C	693131	Shaw Creek at Cth O
10/21/2015	COMPLETE		693142	Spiegelberg Creek at Sh 22 Wayside and Cemetery Rd
10/21/2015	COMPLETE		10016223	Whitcomb Creek - County Highway 00
10/22/2015	COMPLETE		693147	Little Wolf River - Near Symco
10/29/2015	COMPLETE		693143	Thiel Creek at Swan Road
10/29/2015	COMPLETE		693141	Little Wolf River at Cth Bb
10/29/2015	COMPLETE		693129	Blake Creek at State Highway 22
05/17/2016	COMPLETE		10016782	Blake Creek - Upstream Of County Highway K
05/17/2016	COMPLETE		10013573	South Fork Blake Creek-Upstream Hwy E

Documents

Title	Description	Author	Published	Comments
Blake Creek at Hwy 22 2015, 2017 NC VALIDATION	Blake Creek at Hwy 22 2015, 2017 NC VALIDATION	Bolha, Dave	05/03/2017	
Little Creek at County O 2015, 2017 NC VALIDATION	Little Creek at County O 2015, 2017 NC VALIDATION	Bolha, Dave	05/03/2017	
Little Wolf River at Bridge Rd Facing US 9.9.15 Photo by Dave Bolha	Little Wolf River at Bridge Rd Facing US 9.9.15 Photo by Dave Bolha	Dave Bolha	09/09/2015	
Little Wolf River at County C 2015, 2017 NC VALIDATION	Little Wolf River at County C 2015, 2017 NC VALIDATION	Bolha, Dave	05/03/2017	
Little Wolf River at County Road BB 2015, 2017 NC VALIDATION	Little Wolf River at County Road BB 2015, 2017 NC VALIDATION	Bolha, Dave	05/03/2017	
Little Wolf River at Hwy 22 Symco 2015, 2017 NC VALIDATION	Little Wolf River at Hwy 22 Symco 2015, 2017 NC VALIDATION	Bolha, Dave	05/03/2017	

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Title	Description	Author	Published	Comments
Lower Little Wolf TWA WQM Plan 2017 Draft	Lower Little Wolf TWA WQM Plan 2017 Draft	Bolha, Dave	05/03/2017	
North Branch Blake Creek at County E 2015, 2017 NC VALIDATION	North Branch Blake Creek at County E 2015, 2017 NC VALIDATION	Bolha, Dave	05/03/2017	
Shaw Creek at County O 2015, 2017 NC VALIDATION	Shaw Creek at County O 2015, 2017 NC VALIDATION	Bolha, Dave	05/03/2017	
South Branch Blake Creek at County E 2015, 2017 NC Validation	South Branch Blake Creek at County E 2015, 2017 NC Validation	Bolha, Dave	05/03/2017	
Spaulding Creek at G 2015, 2017 NC Validation	Spaulding Creek at G 2015, 2017 NC Validation	Bolha, Dave	05/03/2017	
Spiegelburg Creek at Cemetery Rd Hwy 22 Wayside 2015, 2017 NC Validations	Spiegelburg Creek at Cemetery Rd Hwy 22 Wayside 2015, 2017 NC Validation	Bolha, Dave	05/03/2017	
Thiel Creek at Swan Rd 2015, 2017 NC Validation	Thiel Creek at Swan Rd 2015, 2017 NC Validation	Bolha, Dave	05/03/2017	
Whitcomb Creek at County E 2015, 2017 NC Validation	Whitcomb Creek at County E 2015, 2017 NC Validation	Bolha, Dave	05/03/2017	
Whitcomb Creek at County OO 2015, 2017 NC VALIDATION	Whitcomb Creek at County OO 2015, 2017 NC VALIDATION	Bolha, Dave	05/03/2017	

Budget

Budget Description: FY 2016 Budget

Start Date: 03/01/2015 End Date: 06/30/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	400	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	250	Hours	\$13.00	\$3,250.00	
LTE FR	LTE Fringe				\$802.75	
LTE IND	LTE Indirect				\$655.33	
LTE TOT	LTE Total Cost				\$4,708.08	
SUPPLY	Supplies	1		\$150.00	\$150.00	Alcohol for Bugs
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	3500	Miles	\$0.62	\$2,170.00	
MEAL	Meals	50	Meals	\$10.00	\$500.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$2,670.00	
BUG	Bug Contracts	11		\$180.00	\$1,980.00	
OTHER	Other Contracts	1		\$400.00	\$400.00	Diatom IBI Samples
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$9,908.08	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
Total SLOH Lab Costs:				\$0.00	
Total Budget:				\$9,908.08	

May 5, 2017

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Combined Budgets: \$9,908.08
Combined SLOH: \$0.00
Combined Total: \$9,908.08

Funding

Organization	Source	Type	Amount	Start Date	End Date
US Environmental Protection Agency	Federal	CWA 319			