

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: East_TWA_4_2017

Name: Pipe Creek TWA 2017-2018

Type: Targeted Watershed Approach

Subtype: Effectiveness (BMP, Other)

Status: COMPLETE

Start Date: 7/1/2017

End Date: 6/30/2018

Purpose: This project will evaluate water quality improvement/preservation efforts made in the Pipe Creek Watershed by Fond Du Lac County LWCD and NRCS.[TWA HUC12-040302030303]
This is a Section 319 project.

Objective: This project will provide the water quality assessment to evaluate the effectiveness of watershed BMPs in the Pipe Creek Watershed on the East side of Lake Winnebago. In 2016, Fond Du Lac County LWCD received a Great Lakes Commission grant (\$175,728) to reduce the phosphorus and sediment load in the Great Lakes, specifically the Pipe Creek Watershed. This project will provide the water quality data to determine whether or not the watershed improvements reduced the nutrient and sediment load to Pipe Creek and its downstream receiving waters. Eight locations will be monitored Total Phosphorus, Total Suspended Solids, Fish, Macroinvertebrates, Diatoms, Habitat, and Temperature. In addition, this monitoring will serve as follow-up monitoring for a fish kill in Pipe Creek in 2014 from a CAFO in the watershed.

Five WBICs will be sampled during this project: 3000189, 132800, 5025714, 5025580, 5025742.

Comments:

Outcome: Water quality monitoring will be conducted at 8 locations and final report written by 12/31/2018. This data will provide insight into the effectiveness of best management practices by a Great Lakes Grant.

Study Design: Aquatic macroinvertebrates will be collected at 8 locations in October 2017 (FY18). One day of sampling and 1 day to represerve and transport to UWSP. All data will be entered into SWIMS database by UWSP staff by 12/31/2018. Qualitative Habitat surveys will be conducted at 8 locations in FY18. Habitat data will be collected at each location during fish surveys and 1 day is needed to enter the data into database. All data will be entered into FMDB by Water Resources staff by 12/31/2017. Fish surveys will be conducted at 8 locations in FY18. Three days of sampling will be needed to complete the field surveys from July through September 2017. All fish data will be entered into the FMDB by Water Resources staff by 12/31/2017. Thermistors will be deployed at 8 locations from May to October 2017 to collect temperature data. Two sampling days will occur to deploy and retrieve the thermistors. All data will be uploaded into SWIMS by Water Resources staff by 12/31/2017. Inorganic chemistry (TP and TSS) monitoring will be conducted at 6 locations. Sampling will occur twice per month May through June 2017 for TP and TSS at 6 locations. Additionally, sampling for TP will be conducted once per month July through October 2017. Thirdly, sampling for TSS will be conducted once per month in July and October 2017 at 6 locations.

QA Measures: Standard DNR and SLOH protocols will be followed. All samples will be sent to Wisconsin State Lab of Hygiene for analysis and will be entered by the lab into SWIMS by 12/31/2017. A final report will be written and attached to this project by 12/31/2018.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
BOLHA, DAVID A	COORDINATOR	ACTIVE	3/1/2017	6/30/2018	Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	INACTIVE	7/1/2017	6/30/2018	Wisconsin DNR	
Kleeman, ZACHARY K	TEAM_MEMBER	COMPLETE	7/1/2017	6/30/2018	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
1/11/2017	DAVID BOLHA	Proposed	Pipe Creek TWA Proposed

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12/12/2017	DAVID BOLHA	Progress: 75-100% Complete	Pipe Creek TWA project monitoring complete. Monitoring results will be returned in summer 2018. Report will be completed by 12/31/2018.
12/13/2018	DAVID BOLHA	Final Report Needed	Baseline monitoring completed. The monitoring report has been added to the Documents section of this project. This is now a WQ Plan project.
1/16/2020	DAVID BOLHA	Public Comment Period	Pipe Creek TWA Monitoring report is completed. Water Quality Plan writeup and public comment April 2020.

Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	8 sample locations; 10016803, 10042194, 10047728-10047733
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	17 days in the field; 8 days collecting inorganic samples, 3 days for fish, 2 days for bugs, 2 days for diatoms, 1 day of recon, 1 day for thermistor deployment.
3. Proposed Dates for Sample Collection	Biweekly sampling for TP and TSS in May and June 2017. Monthly sampling for TP and TSS July through October 2017. Fish surveys during the recommended Fish IBI period. Bugs collected in October 2017. Diatoms collected in July or August 2017. Habitat surveys conducted during fish survey period.
4. List applicable databases and who will enter data?	SWIMS: inorganic chemistry entered by WSLOH, Bugs by UWSP AEL, Temperature data uploaded by Water Resources Staff FMDB: Habitat and Fish Data by Water Resources Staff
5. Did you receive competitive projects funding in the previous year?	No
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 Date	End Date	Status
Monitor Watershed (Status, Sources, Impairments)	This project will evaluate water quality improvement/preservation efforts made in the Pipe Creek Watershed by Fond Du Lac County LWCD and NRCS.[TWA HUC12-040302030303] This is a Section 319 project.	4/1/2017	4/15/2018	COMPLETE

Details: Parameter	Value/Amount	Units	Comments
Total Nitrogen			
Total Phosphorus			
Total Suspended Solids			

Monitor Targeted Watershed Area (TWA)	This project will evaluate water quality improvement/preservation efforts made in the Pipe Creek Watershed by Fond Du Lac County LWCD and NRCS.[TWA HUC12-040302030303] This is a Section 319 project.	4/1/2017	4/15/2018	COMPLETE
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Details: Parameter	Value/Amount	Units	Comments
Report Writeup			
Total Nitrogen			
Total Phosphorus			

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Details: Parameter	Value/Amount	Units	Comments		
Total Suspended Solids					
Water Quality Planning	This project will evaluate water quality improvement/preservation efforts made in the Pipe Creek Watershed by Fond Du Lac County LWCD and NRCS.[TWA HUC12-040302030303] This is a Section 319 project.	7/1/2017	6/30/2018	IN_PROGRESS	

Monitoring Stations

Station ID	Name	Comments
10016803	Pipe Creek - Pipe Creek - 30 Feet Above Hwy 151bridge	
10042194	Pipe Creek 40 meters Upstream of Confluence with Unnamed Cr WBIC 5025913	
10047732	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025580)	
10047733	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025742)	
10047730	Unnamed Trib to Pipe Creek US County HH (WBIC 5025714)	
10047728	Unnamed Trib to Pipe Creek US County W (WBIC 3000189)	
10047729	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 3000189)	
10047731	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 5026041)	

Assessment Units

WBIC	Segment	Local Name	Official Name
131100	1	Lake Winnebago	Lake Winnebago
131500	1	Mill Creek	Mill Creek
131600	1	Mud Creek	Mud Creek
131620	1	WETLAND TRIBUTARY TO MUD CREEK	Unnamed
131700	1	Roberts Creek	Roberts Creek
131900	1	Johnson Creek	Johnson Creek
132100	1	Brothertown Creek	Unnamed
132800	1	Pipe Creek	Pipe Creek
132800	2	Pipe Creek	Pipe Creek
3000189	2	Unnamed Stream	Unnamed
5024409	1	Unnamed Stream	Unnamed
5024513	1	Unnamed Stream	Unnamed
5025587	1	Unnamed Stream	Unnamed
5025714	1	Unnamed Stream	Unnamed
5026041	1	Unnamed Stream	Unnamed
5560112	1	Local Water	Unnamed

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Lab Account Codes

Account Code	Description	Start Date	End Date
WQ002	TARGETED WATERSHED ASSESSMENTS	3/26/2014	12/31/2099

Forms

Form Code	Form Name
AIS_STREAM_2014	Aquatic Invasive Species Monitoring Data Form (Streams)
AIS_EDD_STR_2016	Aquatic Invasive Species Monitoring Stream Data Form [2016]
WADEABLE_MACRO_FIELD	Wadeable Macroinvertebrate Field & Habitat Data

Methods

Method Code	Method Description
AIS_STREAMS_2015	AIS Monitoring in Streams 2015
DIATOM_STREAM_COLL	Diatom Collection for Diatom Nutrient Index (DNI) in Streams
ELECTROFISHING: BACKPACK SHOCKER	Electrofishing: Backpack Shocker
ELECTROFISHING: STREAM SHOCKER	Electrofishing: Stream Shocker
MACROINVERTEBRATE BASELINE PROTOCOLS	Macroinvertebrate Baseline D-frame Kick Net 2004
NUTRIENT SAMPLING STREAMS 2015	Nutrient Sampling SOPs (3.2) WQ Monitoring 2015

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
5/3/2017 8:24	COMPLETE	UTPC5-2017-MAY-1	10047731	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 5026041)
5/3/2017 8:27	COMPLETE	UTPC3-2017-MAY-1	10047729	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 3000189)
5/3/2017 8:38	COMPLETE	UTPCW-2017-MAY-1	10047728	Unnamed Trib to Pipe Creek US County W (WBIC 3000189)
5/3/2017 8:46	COMPLETE	PC151-2017-MAY-1	10016803	Pipe Creek - Pipe Creek - 30 Feet Above Hwy 151bridge
5/3/2017 8:57	COMPLETE	UTPCHH-2017-MAY-1	10047730	Unnamed Trib to Pipe Creek US County HH (WBIC 5025714)
5/3/2017 9:07	COMPLETE	UTLWAB-2017-MAY-1	10047732	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025580)
5/17/2017 8:09	COMPLETE	UTPC5-2017-MAY-2	10047731	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 5026041)
5/17/2017 8:12	COMPLETE	UTPC3-2017-MAY-2	10047729	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 3000189)
5/17/2017 8:20	COMPLETE	UTPCW-2017-MAY-2	10047728	Unnamed Trib to Pipe Creek US County W (WBIC 3000189)
5/17/2017 8:28	COMPLETE	PC151-2017-MAY-2	10016803	Pipe Creek - Pipe Creek - 30 Feet Above Hwy 151bridge
5/17/2017 8:36	COMPLETE	UTPCHH-2017-MAY-2	10047730	Unnamed Trib to Pipe Creek US County HH (WBIC 5025714)
5/17/2017 8:47	COMPLETE	UTLWAB-2017-MAY-2	10047732	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025580)
6/14/2017 8:08	COMPLETE	UTPC5-2017-JUNE-1	10047731	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 5026041)

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6/14/2017 8:10	COMPLETE	UTPC3-2017-JUNE-1	10047729	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 3000189)
6/14/2017 8:17	COMPLETE	UTPCW-2017-JUNE-1	10047728	Unnamed Trib to Pipe Creek US County W (WBIC 3000189)
6/14/2017 8:26	COMPLETE	PC151-2017-JUNE-1	10016803	Pipe Creek - Pipe Creek - 30 Feet Above Hwy 151bridge
6/14/2017 8:34	COMPLETE	UTPCHH-2017-JUNE-1	10047730	Unnamed Trib to Pipe Creek US County HH (WBIC 5025714)
6/14/2017 8:44	COMPLETE	UTLWAB-2017-JUNE-1	10047732	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025580)
6/15/2017 10:00	COMPLETE	NA	10016803	Pipe Creek - Pipe Creek - 30 Feet Above Hwy 151bridge
6/27/2017	COMPLETE		10047733	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025742)
6/28/2017 8:10	COMPLETE	UTPC5-2017-JUNE-2	10047731	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 5026041)
6/28/2017 8:12	COMPLETE	UTPC3-2017-JUNE-2	10047729	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 3000189)
6/28/2017 8:28	COMPLETE	UTPCW-2017-JUNE-2	10047728	Unnamed Trib to Pipe Creek US County W (WBIC 3000189)
6/28/2017 8:35	COMPLETE	PC151-2017-JUNE-2	10016803	Pipe Creek - Pipe Creek - 30 Feet Above Hwy 151bridge
6/28/2017 8:41	COMPLETE	UTPCHH-2017-JUNE-2	10047730	Unnamed Trib to Pipe Creek US County HH (WBIC 5025714)
6/28/2017 8:52	COMPLETE	UTLWAB-2017-JUNE-2	10047732	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025580)
7/12/2017 8:04	COMPLETE	UTPC5-2017-JULY	10047731	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 5026041)
7/12/2017 8:08	COMPLETE	UTPC3-2017-JULY	10047729	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 3000189)
7/12/2017 8:17	COMPLETE	UTPCW-2017-JULY	10047728	Unnamed Trib to Pipe Creek US County W (WBIC 3000189)
7/12/2017 8:26	COMPLETE	PC151-217-JULY	10016803	Pipe Creek - Pipe Creek - 30 Feet Above Hwy 151bridge
7/12/2017 8:33	COMPLETE	UTPCHH-2017-JULY	10047730	Unnamed Trib to Pipe Creek US County HH (WBIC 5025714)
7/12/2017 8:45	COMPLETE	UTLWAB-2017-JULY	10047732	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025580)
8/9/2017 8:07	COMPLETE	UTPC5-2017	10047731	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 5026041)
8/9/2017 8:09	COMPLETE	UTPC3-2017	10047729	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 3000189)
8/9/2017 8:17	COMPLETE	UTPCW-2017	10047728	Unnamed Trib to Pipe Creek US County W (WBIC 3000189)
8/9/2017 8:23	COMPLETE	PC151-2017	10016803	Pipe Creek - Pipe Creek - 30 Feet Above Hwy 151bridge
8/9/2017 8:33	COMPLETE	UTPCHH-2017	10047730	Unnamed Trib to Pipe Creek US County HH (WBIC 5025714)
8/9/2017 8:44	COMPLETE	UTLWAB-2017	10047732	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025580)
9/7/2017 8:07	COMPLETE	UTPC5-2017-SEPTEMBER	10047731	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 5026041)
9/7/2017 8:22	COMPLETE	UTPCW-2017-SEPTEMBER	10047728	Unnamed Trib to Pipe Creek US County W (WBIC 3000189)
9/7/2017 8:30	COMPLETE	PC151-2017-SEPTEMBER	10016803	Pipe Creek - Pipe Creek - 30 Feet Above Hwy 151bridge
9/7/2017 8:31	COMPLETE	UTPC3-2017-SEPTEMBER	10047729	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 3000189)
9/7/2017 8:39	COMPLETE	UTPCHH-2017-SEPTEMBE	10047730	Unnamed Trib to Pipe Creek US County HH (WBIC 5025714)

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9/7/2017 8:51	COMPLETE	UTLWAB-2017-SEPTEMBE	10047732	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025580)
10/4/2017 8:06	COMPLETE	UTPC5-2017-OCTOBER	10047731	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 5026041)
10/4/2017 8:08	COMPLETE	UTPC3-2017-OCTOBER	10047729	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 3000189)
10/4/2017 8:17	COMPLETE	UTPCW-2017-OCTOBER	10047728	Unnamed Trib to Pipe Creek US County W (WBIC 3000189)
10/4/2017 8:23	COMPLETE	PC151-2017-OCTOBER	10016803	Pipe Creek - Pipe Creek - 30 Feet Above Hwy 151bridge
10/4/2017 8:30	COMPLETE	UTPCHH-2017-OCTOBER	10047730	Unnamed Trib to Pipe Creek US County HH (WBIC 5025714)
10/4/2017 8:40	COMPLETE	UTLWAB-2017-OCTOBER	10047732	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025580)
10/25/2017	COMPLETE		10047731	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 5026041)
10/25/2017	COMPLETE		10047733	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025742)
10/25/2017	COMPLETE		10047730	Unnamed Trib to Pipe Creek US County HH (WBIC 5025714)
10/25/2017	COMPLETE		10047728	Unnamed Trib to Pipe Creek US County W (WBIC 3000189)
10/25/2017	COMPLETE		10047729	Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 3000189)
10/25/2017	COMPLETE		10042194	Pipe Creek 40 meters Upstream of Confluence with Unnamed Cr WBIC 5025913
10/25/2017	COMPLETE		10016803	Pipe Creek - Pipe Creek - 30 Feet Above Hwy 151bridge
10/25/2017	COMPLETE		10047732	Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025580)

Documents

Title	Description	Author	Published	Comments
2017 Total Phosphorus Monitoring Report - Pipe Creek - Pipe Creek - 30 Feet Above Hwy 151bridge	This project will evaluate water quality improvement/preservation efforts made in the Pipe Creek Watershed by Fond Du Lac County LWCD and NRCS.	Ilana Haimes	5/30/2018	
2017 Total Phosphorus Monitoring Report - Unnamed Trib to Lake Winnebago US Artesia Beach Rd (WBIC 5025580)	This project will evaluate water quality improvement/preservation efforts made in the Pipe Creek Watershed by Fond Du Lac County LWCD and NRCS.	Ilana Haimes	5/30/2018	
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2017 Total Phosphorus Monitoring Report - Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 3000189)	This project will evaluate water quality improvement/preservation efforts made in the Pipe Creek Watershed by Fond Du Lac County LWCD and NRCS.	Ilana Haimes	5/30/2018	
2017 Total Phosphorus Monitoring Report - Unnamed Trib to Pipe Creek US Hwy 151 (WBIC 5026041)	This project will evaluate water quality improvement/preservation efforts made in the Pipe Creek Watershed by Fond Du Lac County LWCD and NRCS.	Ilana Haimes	5/30/2018	
Fond Du Lac County LWCD Loading Project 2017	Monitoring locations for Pipe Creek TWA 2017-2018	Paul Tollard, FDL Co	4/15/2018	
Fond Du Lac County NRCS and LWCD Pipe Creek BMP Project Map 2016		FDL County NRCS		
Pipe Creek at Hwy 151 Photo	Photo of Pipe Creek during typical summer time flow conditions	Bolha, Dave		
Runoff Event Video in Pipe Creek, Fond du Lac County, Wisconsin	Video of Pipe Creek following a significant rain event showing significant sediment runoff.	David Bolha	6/15/2017	
Targeted Watershed Assessment Report for the Pipe Creek Watershed in Fond du Lac County, Wisconsin	Final TWA WQ-MR for TWA in Pipe Creek	Bolha, David	12/1/2018	

Budget

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SWIMS Project Summary

Total WSLH Lab Costs:	\$0.00
Total Budget:	\$2,787.45

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Budget Description: Pipe Creek TWA FY18 Budget	Start Date: 7/1/2017	End Date: 6/30/2018
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	110	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	120	Hours	\$14.25	\$1,710.00	
LTE FR	LTE Fringe				\$422.37	
LTE IND	LTE Indirect				\$344.80	
LTE TOT	LTE Total Cost				\$2,477.17	
SUPPLY	Supplies	1		\$250.00	\$250.00	Ice, Shipping Cost, Alcohol
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	1000	Miles	\$0.64	\$640.00	
MEAL	Meals	20	Meals	\$10.00	\$200.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$840.00	
BUG	Bug Contracts	8		\$65.00	\$520.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$4,087.17	

Total WSLH Lab Costs: \$0.00

Total Budget: \$4,087.17

Combined Budgets: \$6,874.62

Combined WSLH: \$0.00

Combined Total: \$6,874.62

Funding					
Organization	Source	Type	Amount	Start Date	End Date