

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: East_TWA_6_2015-2017

Name: Pigeon River TWA 2015, 2016, 2017

Type: Targeted Watershed Approach

Subtype: Effectiveness (BMP, Other)

Status: COMPLETE

Start Date: 02/01/2015

End Date: 12/31/2017

Purpose: The Lower Pigeon River Targeted Watershed Assessment will provide baseline water quality data in support of NRCS's and Waupaca County's efforts through the NWQI program to reduce the impact of non-point source pollutants. The Lower Pigeon River will be added to the 2014 Clean Water Act Section 303d list of impaired waters for the pollutant phosphorus. This TWA will provide the baseline data for comparison to data collected after BMPs have been installed in the watershed. [TWA HUC 12-040302021103]

Objective: This watershed has been selected as one of three HUC 12 watersheds in Wisconsin to implement BMPs to improve water quality through the USEPA's National Water Quality Initiative program. This project will provide baseline water quality data to evaluate the effectiveness of BMPs installed in the watershed.

This project will collect Total Phosphorus samples six times (May through October) at 9 locations in the watershed in 2015. Fish and aquatic macroinvertebrate IBI surveys will be conducted at 6 locations. Quantitative habitat assessments and thalweg depth surveys will be conducted at 8 locations as well.

Monitoring will occur in 8 WBICs: 293900, 295600, 293800, 293700, 5016138, 293100, 5015231, & 5015321.

Comments: This is a 1-year project. with the second year added later.

Outcome: Water quality monitoring will be conducted at 9 locations.

Aquatic macroinvertebrates will be collected at 5 locations in October 2015. One day of sampling and 1 day to preserve 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 8 locations in FY16. Three 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 6 locations in FY16. Two 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 8 locations from May to October 2015 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 06/30/2016.

Inorganic chemistry (TP) monitoring will be conducted at 9 locations. Sampling will occur once per month May through October 2015 by WAV volunteers. 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: HUC10 - 0403020211

QA Measures: Standard DNR and SLOH protocols will be followed.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
ALBRIGHT, LINDSEY B	COORDINATOR	COMPLETE	04/24/2015	04/20/2020	Wisconsin DNR	
BOLHA, DAVID A	PROJECT_MANAGER	COMPLETE	02/01/2015	12/31/2015	Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	ACTIVE	11/23/2019		Wisconsin DNR	
MAASS, JEREMY L	TEAM_MEMBER	COMPLETE	02/01/2015	12/31/2015	Wisconsin DNR	
Stepenuck, Kris	COORDINATOR	COMPLETE	04/24/2015	10/01/2016	UWEX	

Project Statuses

Date	Reported By	Status	Comments
------	-------------	--------	----------

Wisconsin Department of Natural Resources SWIMS Project Summary

Date	Reported By	Status	Comments
12/12/2017	DAVID BOLHA	Progress: 75-100% Complete	Monitoring Report for this HUC 12 and two other HUC 12 watersheds will be completed by 01/31/2018. Monitoring for this project was conducted in 2015 & 2016.
12/27/2017	DAVID BOLHA	Complete	Final Monitoring Report in Documents Section
03/27/2020	DAVID BOLHA	Public Comment Period	WQ Plan/Report Public Comment 4/20

Actions

Action	Detailed Description	Start	End Date	Status
Monitor Targeted Watershed Area (TWA)	Pigeon River Targeted Watershed Assessment: A Plan to Restore Wisconsin Watersheds (2020) Public Review Draft	01/01/2015	12/31/2017	COMPLETE

Monitoring Stations

Station ID	Name	Comments
10043237	Brandy Creek US Lakeshore Rd	
10043229	Brandy Creek Upstream of Hwy 45	
10014791	Gesky Creek at Cth E	
10043366	Pfeiffer (Grady) Lake Outlet to Pigeon Lake at Lakeshore Road	
10044929	Pigeon River 75m DS of South and North Branches Confluence	
693135	Pigeon River at Klemp Road	
693125	Pigeon River; North Branch at Knitt Road	
10014783	South Branch Pigeon River at Brewer Rd.	
10030525	South Branch Pigeon River upstream of Buckbee Rd.	
10014784	South Branch Pigeon at Hwy 110	
10042814	Unnamed Trib 297400 at CTH E	
10042359	Unnamed Trib to Pigeon River Upstream 5m WBIC 5016138	
10043174	Unnamed Trib to S Br of Pigeon River US Hauschultz Rd	
10043175	Unnamed Trib to S Branch of Pigeon River US Nietzke Rd	
10043230	Unnamed Tributary at End of River Rd WBIC 5015321	
10043365	Unnamed Tributary to Pigeon Lake US Green Tree Rd WBIC 5015231	
10016706	Unnamed Tributary to the North Branch of Pigeon River US Knitt Road	

Assessment Units

WBIC	Segment	Local Name	Official Name
293100	1	Pigeon River	Pigeon River
293100	2	Pigeon River	Pigeon River
293300	1	Pigeon Lake	Pigeon Lake
293700	1	Brandy Creek	Brandy Creek
293800	1	Unnamed Trib to Pigeon R	Unnamed
293900	1	North Branch Pigeon River	North Branch Pigeon River
293900	3	North Branch Pigeon River	North Branch Pigeon River
295600	1	South Branch Pigeon River	South Branch Pigeon River
295600	3	South Branch Pigeon River	South Branch Pigeon River
295700	1	Unnamed Trib to S Br Pigeon River	Unnamed
295800	1	Unnamed Trib to S Br Pigeon River	Unnamed

Wisconsin Department of Natural Resources SWIMS Project Summary

WBIC	Segment	Local Name	Official Name
297200	1	Geskey Creek	Geskey Creek
297400	1	Un Creek (T25n-R12e-S02)	Unnamed
5015231	1	Unnamed Trib to Pigeon River	Unnamed
5015321	1	Unnamed Trib to Pigeon Lake	Unnamed
5016138	1	Unnamed Trib to Pigeon River	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
WQ002	TARGETED WATERSHED ASSESSMENTS	03/26/2014	12/31/2015

Forms

Form Code	Form Name
-----------	-----------

Methods

Method Code	Description
-------------	-------------

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
05/19/2015 17:33	COMPLETE	PRKR-WI5-5	693135	Pigeon River at Klemp Road
05/19/2015 17:59	COMPLETE	BC45-WI5-5	10043229	Brandy Creek Upstream of Hwy 45
05/19/2015 19:01	COMPLETE	SBPRBR-WI5-5	10030525	South Branch Pigeon River upstream of Buckbee Rd.
05/19/2015 19:07	COMPLETE	NPRKR-WI5-5	693125	Pigeon River; North Branch at Knitt Road
05/19/2015 19:11	COMPLETE	UNBPRKR-WI5-5	10016706	Unnamed Tributary to the North Branch of Pigeon River US Knitt Road
05/19/2015 19:21	COMPLETE	UTRR-WI5-5	10043230	Unnamed Tributary at End of River Rd WBIC 5015321
05/19/2015 19:32	COMPLETE	UTPRUS-WI5-5	10042359	Unnamed Trib to Pigeon River Upstream 5m WBIC 5016138
06/24/2015 17:33	COMPLETE	PRKR-2015-6	693135	Pigeon River at Klemp Road
06/24/2015 17:53	COMPLETE	BC45-2015-6	10043229	Brandy Creek Upstream of Hwy 45
06/24/2015 18:50	COMPLETE	SBPRBR-2015-6	10030525	South Branch Pigeon River upstream of Buckbee Rd.
06/24/2015 18:54	COMPLETE	NPRKR-2015-6	693125	Pigeon River; North Branch at Knitt Road
06/24/2015 18:59	COMPLETE	UNBPRKR-2015-6	10016706	Unnamed Tributary to the North Branch of Pigeon River US Knitt Road
06/24/2015 19:09	COMPLETE	UTRR-2015-6	10043230	Unnamed Tributary at End of River Rd WBIC 5015321
06/24/2015 19:22	COMPLETE	UTPRUS-2015-6	10042359	Unnamed Trib to Pigeon River Upstream 5m WBIC 5016138
07/22/2015 17:40	COMPLETE	PRKR-W15-7	693135	Pigeon River at Klemp Road
07/22/2015 18:13	COMPLETE	BC45-2015-7	10043229	Brandy Creek Upstream of Hwy 45
07/22/2015 19:06	COMPLETE	SBPRBR-W15-7	10030525	South Branch Pigeon River upstream of Buckbee Rd.
07/22/2015 19:10	COMPLETE	NPRKR-W15-7	693125	Pigeon River; North Branch at Knitt Road
07/22/2015 19:14	COMPLETE	WTRR-W15-7	10043230	Unnamed Tributary at End of River Rd WBIC 5015321
07/22/2015 19:23	COMPLETE	UNBPRKR-W15-7	10016706	Unnamed Tributary to the North Branch of Pigeon River US Knitt Road
08/26/2015 17:27	COMPLETE	PRKR-2015-8	693135	Pigeon River at Klemp Road
08/26/2015 17:52	COMPLETE	BC45-2015-8	10043229	Brandy Creek Upstream of Hwy 45
08/26/2015 19:29	COMPLETE	SBPRBR-W15-8	10030525	South Branch Pigeon River upstream of Buckbee Rd.
08/26/2015 19:32	COMPLETE	NPRKR-2015-8	693125	Pigeon River; North Branch at Knitt Road
08/26/2015 19:38	COMPLETE	UNBPRKR-2015-8	10016706	Unnamed Tributary to the North Branch of Pigeon River US Knitt Road
08/26/2015 19:46	COMPLETE	UTRR-2015-8	10043230	Unnamed Tributary at End of River Rd WBIC 5015321
09/16/2015 15:31	COMPLETE	PRKR-2015-9	693135	Pigeon River at Klemp Road

Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
09/16/2015 15:49	COMPLETE	BC45-2015-9	10043229	Brandy Creek Upstream of Hwy 45
09/16/2015 16:57	COMPLETE	SBPRBR-2015-9	10030525	South Branch Pigeon River upstream of Buckbee Rd.
09/16/2015 17:02	COMPLETE	NPRKR-2015-9	693125	Pigeon River; North Branch at Knitt Road
09/16/2015 17:06	COMPLETE	UNBPKR-2015-9	10016706	Unnamed Tributary to the North Branch of Pigeon River US Knitt Road
09/16/2015 17:06	COMPLETE	UNTRR-2015-9	10043230	Unnamed Tributary at End of River Rd WBIC 5015321
09/16/2015 17:30	COMPLETE	UTPRUS-2015-9	10042359	Unnamed Trib to Pigeon River Upstream 5m WBIC 5016138
10/03/2015	COMPLETE		10030525	South Branch Pigeon River upstream of Buckbee Rd.
10/03/2015	COMPLETE		693135	Pigeon River at Klemp Road
10/13/2015	COMPLETE		10043365	Unnamed Tributary to Pigeon Lake US Green Tree Rd WBIC 5015231
10/13/2015	COMPLETE		693125	Pigeon River; North Branch at Knitt Road
10/13/2015	COMPLETE		10043237	Brandy Creek US Lakeshore Rd
10/15/2015	COMPLETE		10043230	Unnamed Tributary at End of River Rd WBIC 5015321
10/15/2015	COMPLETE		10042359	Unnamed Trib to Pigeon River Upstream 5m WBIC 5016138
10/30/2015 11:52	COMPLETE	PRKR-2015-10	693135	Pigeon River at Klemp Road
10/30/2015 12:11	COMPLETE	BC45-2015-10	10043229	Brandy Creek Upstream of Hwy 45
10/30/2015 13:09	COMPLETE	SBPRBR-2015-10	10030525	South Branch Pigeon River upstream of Buckbee Rd.
10/30/2015 13:14	COMPLETE	NPRKR-2015-10	693125	Pigeon River; North Branch at Knitt Road
10/30/2015 13:20	COMPLETE	UNBPRKR-2015-10	10016706	Unnamed Tributary to the North Branch of Pigeon River US Knitt Road
10/30/2015 13:28	COMPLETE	UTRR-2015-10	10043230	Unnamed Tributary at End of River Rd WBIC 5015321
10/30/2015 13:41	COMPLETE	UTPRUS-2015-10	10042359	Unnamed Trib to Pigeon River Upstream 5m WBIC 5016138

Documents

Title	Description	Author	Published	Comments
2015 Total Phosphorus Monitoring Report - BRANDY CREEK UPSTREAM OF LAKESHORE RD	The Lower Pigeon River watershed has been selected as one of three HUC 12 watersheds in Wisconsin to implement best management practices (BMPs) to improve water quality through the USEPA's National Water Quality Initiative program. Total phosphorus samples collected by citizen lake and stream monitors will provide baseline water quality data to evaluate the effectiveness of BMPs installed in the watershed in support of NRCS's and Waupaca County's efforts to reduce the impact of non-point source pollutants.	Lindsey Albright and Ilana Haimes	12/22/2015	
2015 Total Phosphorus Monitoring Report - Pigeon River , North Branch at Knitt Road	The Lower Pigeon River watershed has been selected as one of three HUC 12 watersheds in Wisconsin to implement best management practices (BMPs) to improve water quality through the USEPA's National Water Quality Initiative program. Total phosphorus samples collected by citizen lake and stream monitors will provide baseline water quality data to evaluate the effectiveness of BMPs installed in the watershed in support of NRCS's and Waupaca County's efforts to reduce the impact of non-point source pollutants.	Lindsey Albright and Ilana Haimes	12/22/2015	

Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
2015 Total Phosphorus Monitoring Report - Pigeon River at Klemp Road	The Lower Pigeon River watershed has been selected as one of three HUC 12 watersheds in Wisconsin to implement best management practices (BMPs) to improve water quality through the USEPA's National Water Quality Initiative program. Total phosphorus samples collected by citizen lake and stream monitors will provide baseline water quality data to evaluate the effectiveness of BMPs installed in the watershed in support of NRCS's and Waupaca County's efforts to reduce the impact of non-point source pollutants.	Lindsey Albright and Ilana Haimes	12/22/2015	
2015 Total Phosphorus Monitoring Report - South Branch Pigeon River upstream of Buckbee Rd.	The Lower Pigeon River watershed has been selected as one of three HUC 12 watersheds in Wisconsin to implement best management practices (BMPs) to improve water quality through the USEPA's National Water Quality Initiative program. Total phosphorus samples collected by citizen lake and stream monitors will provide baseline water quality data to evaluate the effectiveness of BMPs installed in the watershed in support of NRCS's and Waupaca County's efforts to reduce the impact of non-point source pollutants.	Lindsey Albright and Ilana Haimes	12/22/2015	
2015 Total Phosphorus Monitoring Report - Unnamed Trib to Pigeon River Upstream 5m WBIC 5016138	The Lower Pigeon River watershed has been selected as one of three HUC 12 watersheds in Wisconsin to implement best management practices (BMPs) to improve water quality through the USEPA's National Water Quality Initiative program. Total phosphorus samples collected by citizen lake and stream monitors will provide baseline water quality data to evaluate the effectiveness of BMPs installed in the watershed in support of NRCS's and Waupaca County's efforts to reduce the impact of non-point source pollutants.	Lindsey Albright and Ilana Haimes	12/22/2015	
2015 Total Phosphorus Monitoring Report - Unnamed Tributary at End of River Rd WBIC 5015321	The Lower Pigeon River watershed has been selected as one of three HUC 12 watersheds in Wisconsin to implement best management practices (BMPs) to improve water quality through the USEPA's National Water Quality Initiative program. Total phosphorus samples collected by citizen lake and stream monitors will provide baseline water quality data to evaluate the effectiveness of BMPs installed in the watershed in support of NRCS's and Waupaca County's efforts to reduce the impact of non-point source pollutants.	Lindsey Albright and Ilana Haimes	12/22/2015	
2015 Total Phosphorus Monitoring Report - Unnamed Tributary to the	The Lower Pigeon River watershed has been selected as one of three HUC 12 watersheds in Wisconsin to	Lindsey Albright and Ilana Haimes	12/22/2015	

Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
North Branch of Pigeon River US Knitt Road	implement best management practices (BMPs) to improve water quality through the USEPA's National Water Quality Initiative program. Total phosphorus samples collected by citizen lake and stream monitors will provide baseline water quality data to evaluate the effectiveness of BMPs installed in the watershed in support of NRCS's and Waupaca County's efforts to reduce the impact of non-point source pollutants.			
Geske Creek Blandings Turtle (Photo 2) (297200) photo	Geske Creek Blandings Turtle (Photo 2) (297200) photo	Bolha, Dave	09/29/2015	
Pigeon River North Branchat Knitt Road for Natural Community Validation Report	Pigeon River North Branchat Knitt Road for Natural Community Validation Report	Bolha, Dave	02/03/2017	
Pigeon River Targeted Watershed Assessment: A Plan to Protect and Restore Wisconsin Watersheds	Pigeon River Targeted Watershed Assessment: A Plan to Restore Wisconsin Watersheds (2020) Public Review Draft	Bolha, David	04/20/2020	
Water Quality Report for the Pigeon River Watershed	Water Quality Report for the Pigeon River Watershed	David Bolha	12/27/2017	

Budget

Budget Description: May 2015 through June 2016 Budget

Start Date: 05/01/2015

End Date: 06/30/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	160	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	160	Hours	\$14.50	\$2,320.00	
LTE FR	LTE Fringe				\$573.04	
LTE IND	LTE Indirect				\$467.80	
LTE TOT	LTE Total Cost				\$3,360.84	
SUPPLY	Supplies	1		\$200.00	\$200.00	Batteries, Tape, Ice, shipping
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	1400	Miles	\$0.62	\$868.00	
MEAL	Meals	30	Meals	\$10.00	\$300.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$1,168.00	
BUG	Bug Contracts	6		\$185.00	\$1,110.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$5,838.84	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
-----------	-------------	------------	-----------	-----------	------------

Total SLOH Lab Costs: \$0.00

Total Budget: \$5,838.84

Wisconsin Department of Natural Resources SWIMS Project Summary

Combined Budgets: \$5,838.84
Combined SLOH: \$0.00
Combined Total: \$5,838.84

Funding

Organization	Source	Type	Amount	Start Date	End Date
--------------	--------	------	--------	------------	----------