

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: South_TWA_2_2016

Name: Sinsinawa River Targeted Watershed Assessment, Grant County

Type: Targeted Watershed Approach

Subtype: Evaluation (TP SSC, Stressor, Bioassess)

Status: COMPLETE

Start Date: 01/01/2016

End Date: 12/31/2016

Purpose: This project monitored the contemporary status of streams in the watershed to evaluate its overall health. The department needed current fish, habitat, and macroinvertebrate data for streams in the watershed. Volunteers have collected phosphorus data at the watershed pour point; it exceeds the total phosphorus criteria. Fisheries determined the Sinsinawa River to be a very productive smallmouth bass system that has been subject to periodic fish kills. This survey will help determine priority area in which to work. The data was also used to determine whether streams in this system are achieving attainable use and to assess the overall health of the watershed as required by CWA Section 303(d) and Section 305(b). This project is located in HUC12 070600050203.

Objective: Read the [Sinsinawa River Targeted Watershed Assessment, Grant County](https://dnr.wi.gov/water/TwaPlanDetail.aspx?key=124832237)
Data gathered by this project was used to determine management actions to take to protect a quality, highly vulnerable smallmouth bass fishery. It will also help the land conservation department and other interested organizations determine what and where certain best management practices can be most effective.

Comments:

Outcome: Fisheries, habitat, and macroinvertebrate data will be collected on 12 sites in the watershed (HUC 12).
Data will be collected during the field season of the 2016 calendar year.
Data will be entered into the FH database and SWIMS. Updated streams narratives and watershed reports will be entered into SWIMS and WATERS.
All data will be entered into the respective database by December, 2016 or whenever it becomes available.
Final report will be drafted in winter 2017/18.

Study Design: Data will be collected in accordance with accepted department SOPs and techniques.

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

People

Name	Role	Status	Start Date	End Date	Organization	Comments
AMRHEIN, JAMES F	PROJECT_LEAD	ACTIVE	12/16/2015	12/31/2099	Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	ACTIVE	11/23/2019	02/20/2020	Wisconsin DNR	
Perdzock, Amanda R	COORDINATOR	INACTIVE	04/04/2018	08/01/2019	Wisconsin DNR	new job.

Project Statuses

Date	Reported By	Status	Comments
02/01/2016	JAMES AMRHEIN	Proposed	
12/16/2016	JAMES AMRHEIN	Progress: 50-75% Complete	Field work completed. Waiting for bug results. Final report expected to be written winter 2017/18.
12/12/2017	JAMES AMRHEIN	Complete	Final report has been written. WRM plan is being developed with help of CO.
02/10/2020	Lisa Helmuth	Public Comment Period	Document has been formatted and reviewed and approved by biologist for public comment period. Await supervisor approval for March 2020 public comment.

Project Status Detail

Answer Set: DEFAULT

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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 Stressor Identification		12/16/2015	12/31/2099	COMPLETE
Monitor Fish Community		12/16/2015	12/31/2099	COMPLETE
Monitor Watershed (Status,Sources,Impairments)		12/16/2015	12/31/2099	COMPLETE
Water Quality Planning		12/16/2015	12/31/2099	COMPLETE
Monitor or Propose 303(d) Listing	Fisheries has determined the Sinsinawa River to be a very productive smallmouth bass system that has been subject to periodic fish kills. This survey will help determine priority area in which to work. The data will also be used to determine whether streams in this system are achieving their attainable use and assess the overall health of the watershed as required by Section 303(d) and Section 305(b) of the Clean Water Act.	01/01/2016	12/31/2016	COMPLETE
Details:	Parameter	Value/Amount	Units	Comments
	Total Nitrogen			
	Total Phosphorus			
	Total Suspended Solids			
Monitor Targeted Watershed Area (TWA)	Sinsinawa River Targeted Watershed Assessment: A Water Quality Report to Restore Wisconsin Watersheds (2020) Public Review Draft	03/01/2017	12/31/2017	COMPLETE

Monitoring Stations

Station ID	Name	Comments
223252	Galena River (Sinsinawa River) - Center Rd	
223251	Sinsinawa River - STH 11, near Hazel Green WI	
223323	Sinsinawa River - Louisburg Rd	
223232	Sinsinawa River - Sinsinawa Rd. (Bi)	
10046946	Sinsinawa River at farm drive off 1595 Center Drive	
10044974	Unnamed Trib (940700) to Sinsinawa R at Park Lane	
223235	Unnamed Trib (940800) to Sinsinawa River - Mill Rd.Bi	
10044973	Unnamed Trib (941000) to Sinsinawa R at York Rd	
223237	Unnamed Trib (941100) to Sinsinawa R - York Rd	

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Station ID	Name	Comments
223239	Unnamed Trib (941100) to Sinsinawa River - North Hollow Rd	
223241	Unnamed Trib (941400) to Sinsinawa River - Kirkwood Rd	

Assessment Units

WBIC	Segment	Local Name	Official Name
940200	1	Sinsinawa River	Sinsinawa River
940700	1	Unnamed Trib to Sinsinawa R	Unnamed
940800	1	Unnamed Trib to Sinsinawa River	Unnamed
941000	1	Unnamed Trib to Sinsinawa River	Unnamed
941100	1	Un Trib To Sinsinawa River	Unnamed
941400	1	Local Water	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
WQ002	TARGETED WATERSHED ASSESSMENTS	03/26/2014	12/31/2099

Forms

Form Code	Form Name
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Methods

Method Code	Description
FISH SURVEY BASELINE PROTOCOLS	Fish Survey Baseline Protocols 2004
HABITAT SURVEY BASELINE QUANTITATIVE	Habitat Baseline Survey Quantitative 2004
KICKNET SAMPLING - MACROINVERTEBRATE DATA COLLECTION	Macroinvertebrate Kicknet Data Collection 2000
DNR-FPM 2301 OPEN CHANNEL FLOW MEASUREMENT	Open Channel Flow Measurement

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
05/27/2016 12:00	COMPLETE		223323	Sinsinawa River - Louisburg Rd
05/27/2016 13:00	COMPLETE		223232	Sinsinawa River - Sinsinawa Rd. (Bi)
10/18/2016	COMPLETE	20161018-22-01	223237	Unnamed Trib (941100) to Sinsinawa R - York Rd
10/18/2016	COMPLETE	20161018-22-02	223252	Galena River (Sinsinawa River) - Center Rd
10/18/2016	COMPLETE	20161018-22-03	223323	Sinsinawa River - Louisburg Rd
10/18/2016	COMPLETE	20161018-22-04	10044974	Unnamed Trib (940700) to Sinsinawa R at Park Lane
10/18/2016	COMPLETE	20161018-22-05	223235	Unnamed Trib (940800) to Sinsinawa River - Mill Rd.Bi
10/18/2016	COMPLETE	20161018-22-06	223232	Sinsinawa River - Sinsinawa Rd. (Bi)

Documents

Title	Description	Author	Published	Comments
An Assessment of Water Quality in the Sinsinawa River Watershed 2016 Grant County, TWA-Monitoring Report	A narrative that describes the results and recommendations based on the Sinsinawa River Targeted Watershed Assessment conducted in 2016.	James Amrhein, Wisconsin DNR	05/01/2017	

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Title	Description	Author	Published	Comments
Landscape (1) Sinsinawa River TWA 2016 project (940200) photo by James Amrhein	Landscape (1) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Amrhein, James	05/27/2016	
Landscape (2) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Landscape (2) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Amrhein, James	05/27/2016	
Landscape (3) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Landscape (3) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Amrhein, James	05/27/2016	
Landscape (4) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Landscape (4) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Amrhein, James	05/27/2016	
Landscape (5) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Landscape (5) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Amrhein, James	05/27/2016	
Landscape (6) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Landscape (6) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Amrhein, James	05/27/2016	
Landscape (7) Sinsinawa River TWA 2016 project (940200) photo by James Amrhein	Landscape (7) Sinsinawa River TWA 2016 project (940200) photo by James Amrhein	Amrhein, James	05/27/2016	
Landscape (8) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Landscape (8) Sinsinawa River TWA 2016 project (940200) photo by Jim Amrhein	Amrhein, James	05/27/2016	
Riffle (1) - Sinsinawa River at Sinsinawa Rd (940200) photo by Amrhein, James	Riffle (1) - Sinsinawa River at Sinsinawa Rd (940200) photo by Amrhein, James	Amrhein, James	08/16/2016	
Riffle (2) - Sinsinawa River at Sinsinawa Rd (940200) photo by Amrhein, James	Riffle (2) - Sinsinawa River at Sinsinawa Rd (940200) photo by Amrhein, James	Amrhein, James	08/16/2016	
Sinsinawa R - Louisberg Rd NC Validation		Amrhein, James	02/21/2018	
Sinsinawa River - Downstream at Sinsinawa Rd (940200) photo by James Amrhein	Sinsinawa River - Downstream at Sinsinawa Rd (940200) photo by James Amrhein	Amrhein, James	05/27/2016	
Sinsinawa River - downstream at Louisberg Rd (940200) photo by JAMES Amrhein	Sinsinawa River - downstream at Louisberg Rd (940200) photo by JAMES Amrhein	Amrhein, James	05/02/2016	
Sinsinawa River - upstream at Louisberg Rd (940200) photo by JAMES Amrhein	Sinsinawa River - upstream at Louisberg Rd (940200) photo by JAMES Amrhein	Amrhein, James		
Sinsinawa River - upstream at Sinsinawa Rd (940200) photo by James Amrhein	Sinsinawa River - upstream at Sinsinawa Rd (940200) photo by James Amrhein	Amrhein, James	05/27/2016	
Sinsinawa River - upstream at Sinsinawa Rd(2) (940200) photo by James Amrhein	Sinsinawa River - upstream at Sinsinawa Rd(2) (940200) photo by James Amrhein	Amrhein, James	05/27/2016	
Sinsinawa River - upstream at Sinsinawa Rd(3) (940200) photo by James Amrhein	Sinsinawa River - upstream at Sinsinawa Rd(3) (940200) photo by James Amrhein	Amrhein, James	05/27/2016	
Sinsinawa River Targeted Watershed Assessment: A Water Quality Report to	Assessments and recommendations for the Watershed. Sinsinawa River Targeted Watershed Assessment: A	Amrhein, James	03/23/2020	

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Title	Description	Author	Published	Comments
Restore Wisconsin Watersheds Sinsinawa River at Sinsinawa Rd Bridge (940200) photo by James Amrhein	Water Quality Report to Restore Wisconsin Watersheds, 2018 Sinsinawa River at Sinsinawa Rd Bridge (640200) photo by James Amrhein	Amrhein, James	08/16/2016	
Sinsinawa River at Smally (940200) photo by James Amrhein	Sinsinawa River at Smally (940200) photo by James Amrhein	Amrhein, James	05/27/2016	
Sinsinawa River at Smally(2) (940200) photo by James Amrhein	Sinsinawa River at Smally(2) (940200) photo by James Amrhein	Amrhein, James	05/27/2016	

Budget

Budget Description:Sinsinawa Jan - June 2016

Start Date: 01/01/2016

End Date: 06/30/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	48	Hours	\$0.00	\$0.00	2 FTE x 3 trips x 8 hrs/day
LTE SAL	LTE Salary	24	Hours	\$13.00	\$312.00	1 LTE x 3 Trips x 8 hours/trip
LTE FR	LTE Fringe				\$77.06	
LTE IND	LTE Indirect				\$62.91	
LTE TOT	LTE Total Cost				\$451.98	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	540	Miles	\$0.64	\$345.60	3 trips x 180 miles/trip
MEAL	Meals	10	Meals	\$4.00	\$40.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$385.60	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$837.58	

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

Total Budget: \$837.58

Budget Description:Sinsinawa July - Dec 2016

Start Date: 07/01/2016

End Date: 12/31/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	64	Hours	\$0.00	\$0.00	2 FTE x 4 Trips x 8 hours/trip
LTE SAL	LTE Salary	24	Hours	\$13.00	\$312.00	1 LTE x 3 Trips x 8 hours/trip
LTE FR	LTE Fringe				\$77.06	
LTE IND	LTE Indirect				\$62.91	
LTE TOT	LTE Total Cost				\$451.98	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	640	Miles	\$0.64	\$409.60	4 trips x 160 miles/trip
MEAL	Meals	11	Meals	\$4.00	\$44.00	
LODGE	Lodging				\$0.00	

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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
TRAVEL	Travel Total				\$453.60	
BUG	Bug Contracts	7		\$185.00	\$1,295.00	
OTHER	Other Contracts	2		\$200.00	\$400.00	Diatom analysis
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$2,600.58	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
Total SLOH Lab Costs:				\$0.00	
Total Budget:				\$2,600.58	
Combined Budgets:				\$3,438.15	
Combined SLOH:				\$0.00	
Combined Total:				\$3,438.15	

Funding

Organization	Source	Type	Amount	Start Date	End Date
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