

# Wisconsin Department of Natural Resources SWIMS Project Summary

## General Project Information

**Project ID:** East\_TWA\_5\_2017

**Name:** Upper East River TWA 2017-2018

**Type:** Targeted Watershed Approach

**Subtype:** Effectiveness (BMP, Other)

**Status:** ACTIVE

**Start Date:** 7/1/2017

**End Date:** 6/30/2018

**Purpose:** The Upper East River Watershed was previously the subject of monitoring and management in the East River Priority Watershed Program from 1991-2003. Despite efforts to improve water quality, the East River is still considered one of the major contributors of phosphorous and suspended solids to the Lower Fox River and Green Bay.

Agriculture is the dominant land use in the sub watershed and continues to be the likely main contributor to poor water quality. At the time of the monitoring project initiation, there were five CAFOs located in the Upper East and another farm that was nearly a CAFO sized facility. This subwatershed has some of the highest dairy farm and CAFO concentrations in the state. This project is funded through Clean Water Act Section 319 grant funds.

**Objective:** Surveys will be completed at approximately 15-18 sites (yet to be determined) throughout the Upper East River HUC 12 Watershed to evaluate contemporary stream conditions and evaluate successes with in-stream water quality improvements from the East River Priority watershed plan that expired in 2012. Each of the sites will have 3 field visits. One visit for reconnaissance and station establishment, one visit for fish and habitat surveys, and one visit for macroinvertebrate and DPI sampling. A citizen volunteer will also collect 6 monthly growing season water chemistry grab samples for Total Phosphorous and Total Suspended Solids at 2 sites in the watersheds along the two major branches. It is also anticipated that these sites will likely serve as pre-implementation sites for in-stream water quality improvement tracking under the recently approved Upper East River 9KE plan and provide meaningful data for implementation of the Lower Fox River TMDL.

**Comments:** New Project

**Outcome:** Data will be used in upcoming conditions assessments, watershed planning, and for providing information to the County, landowners, and local interests groups/partners to improve understanding of current stream conditions, successful conservation practices, success of future conservation practices, and making additional management recommendations.

**Study Design:** 15-18 sites will be selected for Fish and Habitat Surveys.  
10 sites will be selected for Macroinvertebrate Surveys  
2 Water Chemistry Sites will be selected for Monthly TP and TSS samples May-Oct and DPI samples in July/Aug.

Site selection will be strategically located to provide 1) general conditions assessments of reaches throughout the watershed and 2) targeted near previous conservation practices or proposed conservation practices where in-stream water quality improvements may be documented.

**QA Measures:** Identify any relevant quality assurance measures you are using.

## People

Name	Role	Status	Start Date	End Date	Organization	Comments
Helmuth, Lisa D	COORDINATOR	INACTIVE	11/23/2019	12/28/2022	Wisconsin DNR	
Hudak, Andrew J	COORDINATOR	ACTIVE	7/1/2017	6/30/2018	Wisconsin DNR	
SELNER, BRANDON J	COORDINATOR	COMPLETE	7/1/2017	6/30/2018	Wisconsin DNR	
STEGEMANN, HOLLY A	COORDINATOR	ACTIVE	7/1/2017	6/30/2018	Wisconsin DNR	

## Project Statuses

Wisconsin Department of Natural Resources  
SWIMS Project Summary

Date	Reported By	Status	Comments
1/5/2017	Andrew Hudak	Proposed	
1/24/2018	Lisa Helmuth	Active	

Project Status Detail

Actions

Action	Detailed Description	Start Date	End Date	Status
Monitor Targeted Watershed Area (TWA)	Upper East River watershed	7/1/2017	6/30/2018	IN_PROGRESS

Monitoring Stations

Station ID	Name	Comments
10017211	East River 150-200 Feet Above Bridge Off Sth 96.	
10016765	East River - Downstream Of The Hwy W Pp Bridge300 Meters	
053675	East River - Hwy G	
053674	East River - Hwy Zz	
053508	East River - Mallard Road	
053509	East River - Wrightstown Rd	
10049256	East River 10m US CTH Z	
10049254	East River 10m US Lamers Clancy Rd	
10049258	East River 10m US Man Cal Rd	
10049252	East River 10m US Mill Rd	
10049257	East River 150m DS Wayside Rd	
053537	East River Unnamed Trib To - Hwy 96	
053493	East River Upper at Fair Road	
10017224	Trib. To East River-100 Feet Above Bridge Off Fair Rd.	
10049271	UNT to East River 100m DS Fair Rd	
10049246	UNT to East River 10m US Bunker Hill Rd	
10049270	UNT to East River 10m US Fair Rd	
10049243	UNT to East River 10m US Hwy 96	
10049255	UNT to East River 10m US Lamers Clancy Rd	
10049244	UNT to East River 10m US Old Hwy 57	
10049245	UNT to East River 30m US STH 96	
10049253	UNT to East River 40m US Mill Rd	

Assessment Units

Wisconsin Department of Natural Resources  
SWIMS Project Summary

WBIC	Segment	Local Name	Official Name
118000	1	East River	East River
118000	2	East River	East River
120500	1	Unnamed Creek (T22n,R20e,S31)	Unnamed
120900	1	Unnamed Stream	Unnamed
121000	1	Unnamed Stream	Unnamed
121300	1	Unnamed Stream	Unnamed
5021240	1	Unnamed Stream	Unnamed

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_EDD_VELIGER2013-2	AIS Early Detection Monitoring - Veliger Tows
CONTINUOUS	Continuous Data Upload
FIELD CHEMISTRY FORM	Field Chemistry Form
INORGANIC	Inorganic Lab - Field Data
CBSM-TEST	Macroinvertebrate Field Data

Methods

Method Code	Method Description
ELECTROFISHING: BACKPACK SHOCKER	Electrofishing: Backpack Shocker
ELECTROFISHING: STREAM SHOCKER	Electrofishing: Stream Shocker
FISH SURVEY BASELINE PROTOCOLS	Fish Survey Baseline Protocols 2004
HABITAT SURVEY BASELINE PROTOCOLS	Habitat Baseline Survey Quantitative 2004
MACROINVERTEBRATE BASELINE PROTOCOLS	Macroinvertebrate Baseline D-frame Kick Net 2004
WAV STREAM MONITORING PROTOCOLS	Water Action Volunteers (WAV) Stream Monitoring Protocols 2009
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
7/15/2017 9:05	COMPLETE	ERUFR-2017-JULY	053493	East River Upper at Fair Road
10/12/2017	COMPLETE		10049253	UNT to East River 40m US Mill Rd

5/9/2024

## Wisconsin Department of Natural Resources SWIMS Project Summary

10/12/2017	COMPLETE		10049252	East River 10m US Mill Rd
10/12/2017	COMPLETE		10049258	East River 10m US Man Cal Rd
10/12/2017	COMPLETE		10049258	East River 10m US Man Cal Rd
10/12/2017	COMPLETE		10049254	East River 10m US Lamers Clancy Rd
10/12/2017	COMPLETE		10049256	East River 10m US CTH Z
10/12/2017	COMPLETE		10049255	UNT to East River 10m US Lamers Clancy Rd
10/12/2017 10:30	COMPLETE	ER17	10049258	East River 10m US Man Cal Rd
10/12/2017 11:00	COMPLETE	ER15	10049256	East River 10m US CTH Z
10/12/2017 11:15	COMPLETE	ER13	10049254	East River 10m US Lamers Clancy Rd
10/12/2017 11:40	COMPLETE	ER14	10049255	UNT to East River 10m US Lamers Clancy Rd
10/12/2017 12:00	COMPLETE	ER12	10049253	UNT to East River 40m US Mill Rd
10/12/2017 12:15	COMPLETE	ER11	10049252	East River 10m US Mill Rd
10/16/2017	COMPLETE		10049245	UNT to East River 30m US STH 96
10/16/2017	COMPLETE		10049271	UNT to East River 100m DS Fair Rd
10/16/2017	COMPLETE		053493	East River Upper at Fair Road
10/16/2017	COMPLETE		053537	East River Unnamed Trib To - Hwy 96
10/16/2017	COMPLETE		053509	East River - Wrightstown Rd
10/16/2017	COMPLETE		053508	East River - Mallard Road
10/16/2017	COMPLETE		053674	East River - Hwy Zz
10/16/2017	COMPLETE		053675	East River - Hwy G
10/16/2017	COMPLETE		10016765	East River - Downstream Of The Hwy W Pp Bridge300 Meters
10/16/2017	COMPLETE		10017224	Trib. To East River-100 Feet Above Bridge Off Fair Rd.
10/16/2017	COMPLETE		053509	East River - Wrightstown Rd
10/16/2017	COMPLETE		053675	East River - Hwy G
10/16/2017 10:00	COMPLETE	ER9	10049245	UNT to East River 30m US STH 96
10/16/2017 10:25	COMPLETE	ER8	053537	East River Unnamed Trib To - Hwy 96
10/16/2017 10:50	COMPLETE	ER4	10017224	Trib. To East River-100 Feet Above Bridge Off Fair Rd.
10/16/2017 11:20	COMPLETE	ER3	053493	East River Upper at Fair Road
10/16/2017 11:50	COMPLETE	ER2	10049271	UNT to East River 100m DS Fair Rd
10/16/2017 12:30	COMPLETE	ER1	053508	East River - Mallard Road
10/16/2017 13:30	COMPLETE	ERGI	053675	East River - Hwy G
10/16/2017 14:00	COMPLETE	ERPP	10016765	East River - Downstream Of The Hwy W Pp Bridge300 Meters
10/16/2017 14:30	COMPLETE	ERZZ	053674	East River - Hwy Zz
10/16/2017 15:00	COMPLETE	ERWRI	053509	East River - Wrightstown Rd

Wisconsin Department of Natural Resources  
SWIMS Project Summary

Documents				
Title	Description	Author	Published	Comments
East River Macroinvertebrates		SELNER BRANDON	1/1/2017	
Upper East River Nonpoint Source Implementaiton Plan		Outagamie and Brown County LCD	1/1/2015	
Upper East River Targeted Watershed Assessment: A Water Quality Plan to Restore Wisconsin Watersheds	Upper East River Targeted Watershed Assessment: A Water Quality Plan to Restore Wisconsin Watersheds	Hudak, Andrew	6/25/2020	

Budget				
Budget Description: FY17		Start Date: 1/1/2017		End Date: 6/30/2017
Code	Description	Quantity Units	Unit Cost	Total Cost Comments
FTE	FTE Hours	150 Hours	\$0.00	\$0.00
LTE SAL	LTE Salary	100 Hours	\$15.00	\$1,500.00
LTE FR	LTE Fringe			\$370.50
LTE IND	LTE Indirect			\$302.46
LTE TOT	LTE Total Cost			\$2,172.96
SUPPLY	Supplies	1	\$900.00	\$900.00 Postage, Gluteraldehyde, RIR paper, waders
EQUIP	Equipment			\$0.00
MILEAGE	Mileage	200 Miles	\$0.72	\$144.00 40 miles/day
MEAL	Meals	10 Meals	\$9.00	\$90.00
LODGE	Lodging			\$0.00
TRAVEL	Travel Total			\$234.00
BUG	Bug Contracts			\$0.00
OTHER	Other Contracts			\$0.00
USGS	USGS Costs			\$0.00
TOTAL	Total Cost (excludes SLOH)			\$3,306.96

Total WSLH Lab Costs: \$0.00  
Total Budget: \$3,306.96

Wisconsin Department of Natural Resources  
SWIMS Project Summary

Budget Description: FY18			Start Date: 7/1/2017	End Date: 12/31/2017
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	170	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	170	Hours	\$15.00	\$2,550.00	
LTE FR	LTE Fringe				\$629.85	
LTE IND	LTE Indirect				\$514.18	
LTE TOT	LTE Total Cost				\$3,694.03	
SUPPLY	Supplies	1		\$100.00	\$100.00	Shipping
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	200	Miles	\$0.72	\$144.00	
MEAL	Meals	12	Meals	\$9.00	\$108.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$252.00	
BUG	Bug Contracts	18		\$65.00	\$1,170.00	
OTHER	Other Contracts	2		\$150.00	\$300.00	DPI Samples
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$5,516.03	

Total WSLH Lab Costs:	\$0.00
Total Budget:	\$5,516.03
Combined Budgets:	\$8,822.99
Combined WSLH:	\$0.00
Combined Total:	\$8,822.99

Funding					
Organization	Source	Type	Amount	Start Date	End Date