

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: East_TWA_3_2017
Name: Mud Creek and Neenah Slough TWA 2017-2018
Type: Targeted Watershed Approach
Subtype: Evaluation (TP SSC, Stressor, Bioassess)
Status: ACTIVE
Start Date: 07/01/2017
End Date: 06/30/2018
Purpose: Neenah Slough and Mud Creek are highly impacted urban streams that are listed on the State's list of impaired waters for Total Phosphorous, Total Suspended Sediment, Chlorides, and PCBs.

East District Biologists propose to monitor Mud Creek and Neenah Slough which will complete the assessments within the remaining two HUC 12's in the Lower Fox River Basin that have not had contemporary water quality data collected. The completion of monitoring within these two HUC 12s will fill the remainder of the data gaps within the entire Lower Fox River basin. It is desired that a watershed assessment is completed that will provide contemporary conditions prior to conservation practices being applied on the landscape that may be tied to the implementation phase of the Lower Fox River TMDL.

Objective: Surveys will be completed at approximately 16 sites in the Mud Creek Watershed and 12 sites in the Neenah Slough Watershed. Exact sites have yet to be determined. 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 collect 6 monthly samples for water chemistry to assess for Total Phosphorous and Total Suspended Solids at 2 sites in the Mud Creek Watershed and 1 site in the Neenah Slough Watershed.

Water Chemistry at the pour points has been collected the last 2 years and will be collected in 2017 by Citizen Volunteers associated with the Lower Fox River Volunteer Stream Monitoring Project led thru the local technical college and UW school.

Comments: 10039498 Unnamed trib of Lake Butte des Morte at Casoloma Dr N Unnamed 129600
 10048138 Neenah Slough 10m DS CTH G Neenah Slough 130800
 53493 East River Upper at Fair Road East River 118000
 10048139 UNT to Mud Creek US West Glenmore Park Drive Unnamed 5021372
 10017224 Trib. To East River-100 Feet Above Bridge Off Fair Rd. Unnamed 120500
 10031787 Bear Creek Bear Creek 292100
 10048429 Neenah Slough 10m US Woodenshoe Rd Neenah Slough 130800
 10048428 UNT to Neenah Slough 10m US Woodenshoe Rd Unnamed 5023288

Outcome: The watershed assessment will provide contemporary conditions prior to conservation practices being applied on the landscape that may be tied to the implementation phase of the Lower Fox River TMDL. Collection of data within these two HUC 12 watersheds will complete watershed assessments within all 14 major tributary basins to the Lower Fox River within the TMDL area. This project will also continue to foster support between the Department and the local community by providing opportunities for community education and outreach through the connection with the Lower Fox River Citizen Volunteer Monitoring Program, the local technical college and UW School, and local stakeholders and partners. Data will be used in upcoming condition assessments, watershed planning, and shared between the Counties, Cities, landowners, and local interest groups/partners to improve understanding of current stream and water quality conditions.

Study Design: Approximately 28 sites will be selected for Fish and Habitat Surveys between the two watersheds. 20 sites will be selected for Macroinvertebrate Surveys and 3 Water Chemistry Sites will be selected for Monthly TP and TSS samples May-Oct and DPI samples in July/Aug. In addition the two major pour point sites will be sampled by the Lower Fox River Citizen Volunteer Monitoring Program.

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: 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.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Helmuth, Lisa D	COORDINATOR	ACTIVE	11/23/2019		Wisconsin DNR	
Hudak, Andrew J	COORDINATOR	ACTIVE	07/01/2017	06/30/2018	Wisconsin DNR	
SELNER, BRANDON J	COORDINATOR	COMPLETE	07/01/2017	06/30/2018	Wisconsin DNR	

Wisconsin Department of Natural Resources SWIMS Project Summary

Name	Role	Status	Start Date	End Date	Organization	Comments
STEGEMANN, HOLLY A	COORDINATOR	ACTIVE	07/01/2017	06/30/2018	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
06/14/2017	Andrew Hudak	Progress: 0-25% Complete	

Actions

Action	Detailed Description	Start	End Date	Status
Monitor Targeted Watershed Area (TWA)	Neenah Slough and Mud Creek are highly impacted urban streams that are listed on the State's list of impaired waters for Total Phosphorous, Total Suspended Sediment, Chlorides, and PCBs. East District Biologists propose to monitor Mud Creek and Neenah Slough which will complete the assessments within the remaining two HUC 12's in the Lower Fox River Basin that have not had contemporary water quality data collected.	07/01/2017	06/30/2018	IN_PROGRESS

Monitoring Stations

Station ID	Name	Comments
10031787	Bear Creek	
053493	East River Upper at Fair Road	
713310	Little Lake Butte Des Morts Tributary at Neenah WI	
10049221	Mud Creek 10m US Glendale Ave	
10049216	Mud Creek 40m US North Casoloma Dr.	
10049218	Mud Creek 40m us Hwy 41	
10049287	Mud Creek 5m US Foot Bridge	
10011423	Mud Creek at Spencer St	
10032175	Neenah Slough #2 (100ft S of Adams St)	
10011360	Neenah Slough - Neenah Slough - Cecil St	
10048138	Neenah Slough 10m DS CTH G	
10048429	Neenah Slough 10m US Woodenshoe Rd	
10017224	Trib. To East River-100 Feet Above Bridge Off Fair Rd.	
10049237	UNT to Mud Creek 10m US Olde Casaloma Drive	
10049224	UNT to Mud Creek 10m US W Sunnyview Rd	
10049219	UNT to Mud Creek 10m US West Highview Dr	
10049238	UNT to Mud Creek 10m US West Prospect Ave	
10049222	UNT to Mud Creek 10m US Whiteney Dr	
10049223	UNT to Mud Creek 10m us W Pine St	
10049217	UNT to Mud Creek 200m DS Wheeler Rd	
10049239	UNT to Mud Creek 30m US West Prospect Ave	
10049225	UNT to Mud Creek 75m US CTH A	
10048139	UNT to Mud Creek US West Glenmore Park Drive	
10049241	UNT to Neenah Slough 10m US CTH CB	
10048425	UNT to Neenah Slough 10m US Pendelton Rd	
10049240	UNT to Neenah Slough 10m US South Lake St	
10048428	UNT to Neenah Slough 10m US Woodenshoe Rd	

Wisconsin Department of Natural Resources SWIMS Project Summary

Station ID	Name	Comments
10039498	Unnamed trib of Lake Butte des Morte at Casoloma Dr N	

Assessment Units

WBIC	Segment	Local Name	Official Name
118000	2	East River	East River
120500	1	Unnamed Creek(T22n,R20e,S31)	Unnamed
129500	1	Mud Creek	Mud Creek
129500	2	Mud Creek	Mud Creek
129600	1	Unnamed Stream	Unnamed
130500	1	Little Lake Butte Des Morts Tributary	Unnamed
130800	1	Neenah Slough	Neenah Slough
130800	3	Neenah Slough	Neenah Slough
130900	1	Unnamed Stream	Unnamed
292100	1	Bear Creek	Bear Creek
5020911	1	Unnamed Stream	Unnamed
5021293	1	Unnamed Stream	Unnamed
5021372	1	Unnamed Stream	Unnamed
5021735	1	Unnamed Stream	Unnamed
5023168	1	Unnamed Stream	Unnamed
5023288	1	Unnamed Stream	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
CONTINUOUS	Continuous Data Upload
FIELD CHEMISTRY FO	Field Chemistry Form
INORGANIC	Inorganic Lab - Field Data
WADEABLE_MACRO_I	Wadeable Macroinvertebrate Field & Habitat Data
WADEABLE_MACRO_I	Wadeable Macroinvertebrate Stream and Watershed Descriptors

Methods

Method Code	Description
DNR-FPM-1001.3	Benthic Invertebrate D-Frame Net, Kick Samples 1988
DNR-FPM-2201	Conductivity Instantaneous Field Meters 1993
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

Wisconsin Department of Natural Resources SWIMS Project Summary

Method Code
GRAB SAMPLE

Description
Water Grab Sample Guidelines and Procedures 2005

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
05/09/2017 00:01	COMPLETE		10049239	UNT to Mud Creek 30m US West Prospect Ave
05/09/2017 00:01	COMPLETE		10048138	Neenah Slough 10m DS CTH G
05/09/2017 00:01	COMPLETE		10032175	Neenah Slough #2 (100ft S of Adams St)
05/09/2017 00:01	COMPLETE		10011423	Mud Creek at Spencer St
05/09/2017 09:00	COMPLETE	NSG-2017-MAY	10048138	Neenah Slough 10m DS CTH G
05/10/2017 16:47	COMPLETE	ERYFR-2017-MAY	053493	East River Upper at Fair Road
05/10/2017 17:35	COMPLETE	TER100-2017-MAY	10017224	Trib. To East River-100 Feet Above Bridge Off Fair Rd.
05/15/2017 16:30	COMPLETE	UMCGP-2017-MAY	10048139	UNT to Mud Creek US West Glenmore Park Drive
05/16/2017 14:30	COMPLETE	BC-2017-MAY	10031787	Bear Creek
05/16/2017 16:00	COMPLETE	UTLBDM-2017-MAY	10039498	Unnamed trib of Lake Butte des Morte at Casoloma Dr N
06/08/2017 08:35	COMPLETE	NSG-2017-JUNE	10048138	Neenah Slough 10m DS CTH G
06/11/2017 12:50	COMPLETE	ERUFR-2017-JUNE	053493	East River Upper at Fair Road
06/11/2017 13:20	COMPLETE	TER100-2017-JUNE	10017224	Trib. To East River-100 Feet Above Bridge Off Fair Rd.
06/13/2017 16:24	COMPLETE	UMCGP-2017-BLAN	10048139	UNT to Mud Creek US West Glenmore Park Drive
06/13/2017 16:24	COMPLETE	UMCGP-2017-DUP	10048139	UNT to Mud Creek US West Glenmore Park Drive
06/13/2017 16:41	COMPLETE	UMCGP-2017-JUNE	10048139	UNT to Mud Creek US West Glenmore Park Drive
06/14/2017 13:30	COMPLETE	UTLBDM-2017-JUN	10039498	Unnamed trib of Lake Butte des Morte at Casoloma Dr N
06/14/2017 14:00	COMPLETE	BC-2017-JUNE	10031787	Bear Creek
07/09/2017 07:30	COMPLETE	NSG-2017-JULY	10048138	Neenah Slough 10m DS CTH G
07/11/2017 16:30	COMPLETE	UMCGP-2017-JULY	10048139	UNT to Mud Creek US West Glenmore Park Drive
07/12/2017 16:15	COMPLETE	BC-2017-JULY	10031787	Bear Creek
07/12/2017 17:00	COMPLETE	UTLBDM-2017-JUL	10039498	Unnamed trib of Lake Butte des Morte at Casoloma Dr N
07/15/2017 09:35	COMPLETE	TER100-2017-JULY	10017224	Trib. To East River-100 Feet Above Bridge Off Fair Rd.
08/08/2017 09:00	COMPLETE	NSG-2017-AUGUST	10048138	Neenah Slough 10m DS CTH G
08/09/2017 16:00	COMPLETE	BC-2017-AUGUST	10031787	Bear Creek
08/09/2017 17:00	COMPLETE	UTLBDM-2017-AUG	10039498	Unnamed trib of Lake Butte des Morte at Casoloma Dr N
08/12/2017 09:55	COMPLETE	ERUFR-2017-AUGL	053493	East River Upper at Fair Road
08/12/2017 10:20	COMPLETE	TER100-2017-AUGL	10017224	Trib. To East River-100 Feet Above Bridge Off Fair Rd.
08/14/2017 16:30	COMPLETE	UMCGP-2017-AUGL	10048139	UNT to Mud Creek US West Glenmore Park Drive
09/11/2017 09:56	COMPLETE	NSG-2017-SEPTEM	10048138	Neenah Slough 10m DS CTH G
09/11/2017 15:30	COMPLETE	BC-2017-SEPTEMB	10031787	Bear Creek
09/11/2017 16:15	COMPLETE	UMCGP-2017-SEPT	10048139	UNT to Mud Creek US West Glenmore Park Drive
09/11/2017 16:30	COMPLETE	UTLBDM-2017-SEP	10039498	Unnamed trib of Lake Butte des Morte at Casoloma Dr N
09/16/2017 08:05	COMPLETE	ERUFR-2017-SEPT	053493	East River Upper at Fair Road
09/16/2017 08:43	COMPLETE	TER100-2017-SEPT	10017224	Trib. To East River-100 Feet Above Bridge Off Fair Rd.
09/27/2017	COMPLETE		10049219	UNT to Mud Creek 10m US West Highview Dr
09/27/2017	COMPLETE		10039498	Unnamed trib of Lake Butte des Morte at Casoloma Dr N
09/27/2017	COMPLETE		10048139	UNT to Mud Creek US West Glenmore Park Drive
09/27/2017	COMPLETE		10049225	UNT to Mud Creek 75m US CTH A
09/27/2017	COMPLETE		10049217	UNT to Mud Creek 200m DS Wheeler Rd
09/27/2017	COMPLETE		10049222	UNT to Mud Creek 10m US Whiteney Dr
09/27/2017	COMPLETE		10049224	UNT to Mud Creek 10m US W Sunnyview Rd
09/27/2017	COMPLETE		10049216	Mud Creek 40m US North Casoloma Dr.
10/02/2017	COMPLETE		10049239	UNT to Mud Creek 30m US West Prospect Ave

Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
10/02/2017	COMPLETE		10049287	Mud Creek 5m US Foot Bridge
10/02/2017	COMPLETE		10049238	UNT to Mud Creek 10m US West Prospect Ave
10/02/2017	COMPLETE		10049218	Mud Creek 40m us Hwy 41
10/02/2017	COMPLETE		10049223	UNT to Mud Creek 10m us W Pine St
10/02/2017	COMPLETE		10011423	Mud Creek at Spencer St
10/02/2017 12:45	COMPLETE	NSG-2017-OCTOBE	10048138	Neenah Slough 10m DS CTH G
10/09/2017 16:30	COMPLETE	UMCGP-2017-OCTC	10048139	UNT to Mud Creek US West Glenmore Park Drive
10/11/2017	COMPLETE		10011360	Neenah Slough - Neenah Slough - Cecil St
10/11/2017	COMPLETE		713310	Little Lake Butte Des Morts Tributary at Neenah WI
10/11/2017	COMPLETE		10049240	UNT to Neenah Slough 10m US South Lake St
10/11/2017	COMPLETE		10048425	UNT to Neenah Slough 10m US Pendelton Rd
10/11/2017	COMPLETE		10048138	Neenah Slough 10m DS CTH G
10/11/2017	COMPLETE		10048429	Neenah Slough 10m US Woodenshoe Rd
10/12/2017 13:30	COMPLETE	BC-2017 OCTOBER	10031787	Bear Creek
10/12/2017 15:00	COMPLETE	UTLBDM-2017-OCT	10039498	Unnamed trib of Lake Butte des Morte at Casoloma Dr N
10/13/2017 18:15	COMPLETE	ERUFR-2017-OCTC	053493	East River Upper at Fair Road
10/13/2017 18:45	COMPLETE	TER100-2017-OCTC	10017224	Trib. To East River-100 Feet Above Bridge Off Fair Rd.
	RECEIVED		10049237	UNT to Mud Creek 10m US Olde Casaloma Drive

Documents

Title	Description	Author	Published	Comments
2017 Total Phosphorus Monitoring Report - Bear Creek	Neenah Slough and Mud Creek are highly impacted urban streams that are listed on the State's list of impaired waters for Total Phosphorous, Total Suspended Sediment, Chlorides, and PCBs. East District Biologists propose to monitor Mud Creek and Neenah Slough which will complete the assessments within the remaining two HUC 12's in the Lower Fox River Basin that have not had contemporary water quality data collected. The completion of monitoring within these two HUC 12s will fill the remainder of the data gaps within the entire Lower Fox River basin. It is desired that a watershed assessment is completed that will provide contemporary conditions prior to conservation practices being applied on the landscape that may be tied to the implementation phase of the Lower Fox River TMDL.	Ilana Haimes	04/17/2018	
2017 Total Phosphorus Monitoring Report - East River Upper at Fair Road	Neenah Slough and Mud Creek are highly impacted urban streams that are listed on the State's list of impaired waters for Total Phosphorous, Total Suspended Sediment, Chlorides, and PCBs. East District Biologists propose to monitor Mud Creek and Neenah Slough which will complete the assessments within the remaining two HUC 12's in the Lower Fox River Basin that have not had contemporary water quality data collected. The completion of monitoring within these two HUC	Ilana Haimes	04/17/2018	

Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
2017 Total Phosphorus Monitoring Report - Neenah Slough 10m DS CTH G	<p>12s will fill the remainder of the data gaps within the entire Lower Fox River basin. It is desired that a watershed assessment is completed that will provide contemporary conditions prior to conservation practices being applied on the landscape that may be tied to the implementation phase of the Lower Fox River TMDL.</p> <p>Neenah Slough and Mud Creek are highly impacted urban streams that are listed on the State's list of impaired waters for Total Phosphorous, Total Suspended Sediment, Chlorides, and PCBs. East District Biologists propose to monitor Mud Creek and Neenah Slough which will complete the assessments within the remaining two HUC 12's in the Lower Fox River Basin that have not had contemporary water quality data collected. The completion of monitoring within these two HUC 12s will fill the remainder of the data gaps within the entire Lower Fox River basin. It is desired that a watershed assessment is completed that will provide contemporary conditions prior to conservation practices being applied on the landscape that may be tied to the implementation phase of the Lower Fox River TMDL.</p>	Ilana Haimes	04/17/2018	
2017 Total Phosphorus Monitoring Report - Trib. To East River-100 Feet Above Bridge Off Fair Rd.	<p>Neenah Slough and Mud Creek are highly impacted urban streams that are listed on the State's list of impaired waters for Total Phosphorous, Total Suspended Sediment, Chlorides, and PCBs. East District Biologists propose to monitor Mud Creek and Neenah Slough which will complete the assessments within the remaining two HUC 12's in the Lower Fox River Basin that have not had contemporary water quality data collected. The completion of monitoring within these two HUC 12s will fill the remainder of the data gaps within the entire Lower Fox River basin. It is desired that a watershed assessment is completed that will provide contemporary conditions prior to conservation practices being applied on the landscape that may be tied to the implementation phase of the Lower Fox River TMDL.</p>	Ilana Haimes	04/17/2018	
2017 Total Phosphorus Monitoring Report - UNT to Mud Creek US West Glenmore Park Drive	<p>Neenah Slough and Mud Creek are highly impacted urban streams that are listed on the State's list of impaired waters for Total Phosphorous, Total Suspended Sediment, Chlorides, and PCBs. East District Biologists propose to monitor Mud Creek and Neenah Slough which will complete the assessments within the remaining two HUC 12's in the Lower Fox River Basin</p>	Ilana Haimes	04/17/2018	

Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
	that have not had contemporary water quality data collected. The completion of monitoring within these two HUC 12s will fill the remainder of the data gaps within the entire Lower Fox River basin. It is desired that a watershed assessment is completed that will provide contemporary conditions prior to conservation practices being applied on the landscape that may be tied to the implementation phase of the Lower Fox River TMDL.			
2017 Total Phosphorus Monitoring Report - Unnamed trib of Lake Butte des Morte at Casoloma Dr N	Neenah Slough and Mud Creek are highly impacted urban streams that are listed on the State's list of impaired waters for Total Phosphorous, Total Suspended Sediment, Chlorides, and PCBs. East District Biologists propose to monitor Mud Creek and Neenah Slough which will complete the assessments within the remaining two HUC 12's in the Lower Fox River Basin that have not had contemporary water quality data collected. The completion of monitoring within these two HUC 12s will fill the remainder of the data gaps within the entire Lower Fox River basin. It is desired that a watershed assessment is completed that will provide contemporary conditions prior to conservation practices being applied on the landscape that may be tied to the implementation phase of the Lower Fox River TMDL.	Ilana Haimes	04/17/2018	
Neenah Slough Photo 2017	Neenah Slough Photo 2017		06/14/2017	

Budget

Budget Description: FY 17

Start Date: 01/01/2017

End Date: 06/30/2017

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	100	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		\$50.00	\$50.00	Postage
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	530	Miles	\$0.72	\$381.60	
MEAL	Meals	16	Meals	\$9.00	\$144.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$525.60	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$2,748.56	

Wisconsin Department of Natural Resources SWIMS Project Summary

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
Total SLOH Lab Costs:				\$0.00	
Total Budget:				\$2,748.56	

Budget Description: FY18 **Start Date:** 07/01/2017 **End Date:** 11/30/2017

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	150	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	120	Hours	\$15.00	\$1,800.00	
LTE FR	LTE Fringe				\$444.60	
LTE IND	LTE Indirect				\$362.95	
LTE TOT	LTE Total Cost				\$2,607.55	
SUPPLY	Supplies	1		\$100.00	\$100.00	Postage
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	530	Miles	\$0.72	\$381.60	
MEAL	Meals	16	Meals	\$9.00	\$144.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$525.60	
BUG	Bug Contracts	20		\$65.00	\$1,300.00	
OTHER	Other Contracts	3		\$150.00	\$450.00	DPI Samples
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$4,983.15	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
Total SLOH Lab Costs:				\$0.00	
Total Budget:				\$4,983.15	

Combined Budgets: \$7,731.71
Combined SLOH: \$0.00
Combined Total: \$7,731.71

Funding

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