

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: South_TWA_5_2014
Name: Pebble Creek [HUC12]
Type: Targeted Watershed Approach
Subtype: Evaluation (TP SSC, Stressor, Bioassess)
Status: ACTIVE
Start Date: 01/01/2014
End Date: 12/31/2014
Purpose: DNR will be conducting Fish IBI sampling, Macroinvertebrate sampling, Continuous Temperature Monitoring and Water Chemistry sampling for Total Phosphorus in the Pebble Creek/Brandy Brook HUC 12 watershed. This sampling would include sites on: Pebble Creek (771300), Unnamed Trib to Pebble Creek (3000120), Unnamed Trib to Pebble Creek (3000119), Unnamed Trib to Pebble Creek (5035967), Brandy Brook (771400), Unnamed Trib to Brandy Brook (5036048) and Unnamed Trib to Brandy Brook (5036099). We will be using standard protocols outlined in WDNR guidance documents.
Objective: Currently, nine sites have been indentified on six different waterbodies. The waterbodies include: Pebble Creek (771300), Unnamed Trib to Pebble Creek (3000120), Unnamed Trib to Pebble Creek (3000119), Unnamed Trib to Pebble Creek (5035967), Brandy Brook (771400), Unnamed Trib to Brandy Brook (5036048) and Unnamed Trib to Brandy Brook (5036099). It will also be used to update information related to impaired waters listings as currently two of the streams are currently on the 303d list.
Comments: Change project name and ID to: "TWA (HUC12 Name)"
 Rachel Sabre, Craig Helker and summer LTE staff
Outcome: Fisheries, habitat, temperature, water chem and macroinvertebrate data will be collected on up to nine sites in the Pebble Creek/Brandy Brook HUC 12 watershed. Data will be collected during the field season of the 2014 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 Dec. 2014 or as soon as it become available.
Study Design: HUC12 - 71200060104
QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Helker, Craig D	COORDINATOR	COMPLETE	01/01/2014	12/31/2014	Wisconsin DNR	
Jenks, Jayne	TEAM_MEMBER	COMPLETE	01/01/2014	12/31/2014	Waukesha County	
MARCANGELI, APRIL N	COORDINATOR	COMPLETE	01/01/2014	12/31/2014	Wisconsin DNR	
McLennan, Robin	SUPERVISOR	COMPLETE	01/01/2014	12/31/2014	Wisconsin DNR	
SEARLE, GREGORY S	SUPERVISOR	ACTIVE	01/01/2014	12/31/2014	Wisconsin DNR	
Sabre, Rachel A	COORDINATOR	COMPLETE	01/01/2014	12/31/2014	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
12/19/2013	Rachel Sabre	Proposed	
05/27/2014	Rachel Sabre	Progress: 0-25% Cor	set all stations except one. Deployed thermistors on all but one site. Need to get landowner permission on last site. Unnamed Trib to Brandy Brook @ Retzer.
09/25/2014	Rachel Sabre	Progress: 50-75% C	Completed fish, habitat and water samples (except one site as it was dry as of July). Need to collect October water sample at pour point and bugs at sites in October.
12/01/2014	Rachel Sabre	Progress: 50-75% C	Collected bugs and retrieved thermistors at 7 of 9 sites. Ice formed quickly keep checking on status to collect last two site. May have to hold off till spring. However I may recommend a second monitoring season as data collected in 2014 season leading to more investigation needed.
08/25/2015	Rachel Sabre	Complete	Project Completed, needed more assessment. Created a 319

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Date	Reported By	Status	Comments
12/16/2015	Lisa Helmuth	Progress: 75-100% C	project for 2015 monitoring year to expand sampling in this watershed as well as an additional 2 HUC 12 watersheds within in the HUC10 Upper Fox River Watershed to assess BMP effectiveness from the priority watershed project of the 1990's Ready for TWA Watershed Plan - no final report written

Actions

Action	Detailed Description	Start	End Date	Status
Monitor with Baseline Survey		*****	12/31/2014	COMPLETE
Monitor Targeted Watershed Area (TWA)	DNR will be conducting Fish IBI sampling, Macroinvertebrate sampling, Continuous Temperature Monitoring and Water Chemistry sampling for Total Phosphorus in the Pebble Creek/Brandy Brook HUC 12 watershed.	*****	12/31/2014	COMPLETE
Monitor Water Quality or Sediment		*****	12/31/2014	COMPLETE
Monitor Watershed (Status,Sources,Impairments)		*****	12/31/2014	COMPLETE
Monitor or Assess Water/shed Condition		*****	12/31/2014	COMPLETE

Monitoring Stations

Station ID	Name	Comments
10021350	Brandy Brook	Hwy 18 Site
10029545	Brandy Brook 210m DS of CTH DT	MSW 6 meters station length 214 M end of station 10
683458	Pebble Creek - 0184-B at Hwy D	
10041569	Unnamed Trib to Brandy Brook	@ Brandy Brook Road
10041573	Unnamed Trib to Brandy Brook @ Retzer	
10041570	Unnamed Trib to Pebble Creek	303d listed
10041572	Unnamed Trib to Pebble Creek @ Hwy TT	MSW 1.58 station 105M start 10m US of culvert
10041571	Unnamed Trib to Pebble Creek @ Mac Arthur Rd	303d listed

Assessment Units

WBIC	Segment	Local Name	Official Name
771300	1	Pebble Creek	Pebble Creek
771300	2	Pebble Creek	Pebble Creek
771400	1	Brandy Brook	Brandy Brook
3000119	1	Perennial Stream C (Pb018)	Unnamed
3000120	1	Perennial Stream D (Pb016)	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
INORGANIC	Inorganic Lab - Field Data
CBSM-TEST	Macroinvertebrate Field Data

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Methods

Method Code	Description
MACROINVERTEBRATE BASELINE PROTOCOLS GRAB SAMPLE	Macroinvertebrate Baseline Protocols 2004 D-frame Kick Net Water Grab Sample (2005) Guidelines and Procedures

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
05/13/2014 14:00	COMPLETE	NA	683458	Pebble Creek - 0184-B at Hwy D
06/16/2014 12:00	COMPLETE	NA	683458	Pebble Creek - 0184-B at Hwy D
07/21/2014 08:45	COMPLETE	NA	10021350	Brandy Brook
07/21/2014 08:50	COMPLETE	NA	10041573	Unnamed Trib to Brandy Brook @ Retzer
07/21/2014 08:50	COMPLETE	NA	10041569	Unnamed Trib to Brandy Brook
07/21/2014 09:25	COMPLETE	NA	10029545	Brandy Brook 210m DS of CTH DT
07/21/2014 09:40	COMPLETE	NA	683458	Pebble Creek - 0184-B at Hwy D
07/21/2014 09:52	COMPLETE	NA	10041571	Unnamed Trib to Pebble Creek @ Mac Arthur Rd
07/21/2014 10:03	COMPLETE	NA	10041570	Unnamed Trib to Pebble Creek
08/18/2014 11:45	COMPLETE	NA	683458	Pebble Creek - 0184-B at Hwy D
09/15/2014 11:30	COMPLETE	NA	683458	Pebble Creek - 0184-B at Hwy D
10/14/2014 12:45	COMPLETE	NA	683458	Pebble Creek - 0184-B at Hwy D
10/17/2014 13:00	COMPLETE	20141017-68-02	10021350	Brandy Brook
10/22/2014 09:30	COMPLETE	20141022-68-01	10041570	Unnamed Trib to Pebble Creek
10/22/2014 13:20	COMPLETE	20141022-68-03	10029545	Brandy Brook 210m DS of CTH DT
10/22/2014 14:10	COMPLETE	20141022-68-04	10041573	Unnamed Trib to Brandy Brook @ Retzer
10/23/2014 09:25	COMPLETE	20141023-68-02	10041569	Unnamed Trib to Brandy Brook
12/05/2014	COMPLETE	20141205-68-01	10041571	Unnamed Trib to Pebble Creek @ Mac Arthur Rd
12/05/2014	COMPLETE	20141205-68-02	683458	Pebble Creek - 0184-B at Hwy D

Documents

Title	Description	Author	Published	Comments
2014 Total Phosphorus Monitoring Report - Pebble Creek - 0184-B at Hwy D	This Targeted Watershed Assessment (TWA) will address needs for baseline water quality monitoring of the Pebble Creek/Brandy Brook Watershed. In 2014, Water Action Volunteers stream monitors were asked to assist in the monitoring process by collecting water samples. The TWA will hopefully provide enough information in order to evaluate the watershed for total phosphorus levels, update water body assessment status (i.e. future monitoring for 303(d)), make management recommendations, and update water body and watershed narratives in WATERS.	Lindsey Albright	02/04/2015	
Pebble Creek Watershed - Final Report		Lindquist	04/06/2009	

Budget

Budget Description: Jan-June 2014 Budget

Start Date: 01/01/2013

End Date: 12/31/2013

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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	8	Hours	\$0.00	\$0.00	1 FTE (1 trips X 8 hours per trip)
LTE SAL	LTE Salary	24	Hours	\$13.00	\$312.00	1 LTE (3 trips X 8 hours per 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	50	Miles	\$0.72	\$36.00	
MEAL	Meals	2	Meals	\$4.00	\$8.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$44.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$495.98	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
IC52010	PHOSPHORUS TOTAL	INORGANIC CHEMISTRY	2	\$23.60	\$47.20
IC65000	SUSPENDED SOLIDS	INORGANIC CHEMISTRY	1	\$18.80	\$18.80

Total SLOH Lab Costs: \$66.00

Budget Description: July- Dec 2014 Budget **Start Date:** 07/01/2014 **End Date:** 12/31/2014

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	56	Hours	\$0.00	\$0.00	[2 FTE (3 trips X 8 hours per trip)] + 8 bugs 1 FTE
LTE SAL	LTE Salary	24	Hours	\$13.00	\$312.00	1 LTE (3 trips X 8 hours per 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	500	Miles	\$0.72	\$360.00	
MEAL	Meals	13	Meals	\$4.00	\$52.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$412.00	
BUG	Bug Contracts	9		\$180.00	\$1,620.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$2,483.98	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
IC52010	PHOSPHORUS TOTAL	INORGANIC CHEMISTRY	12	\$23.60	\$283.20

Total SLOH Lab Costs: \$283.20

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Combined Budgets: \$2,979.95

Combined SLOH: \$349.20

Funding

Organization	Source	Type	Amount	Start Date	End Date
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