

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: SCR_05_CMP14
Name: Mason Creek waterbody scale project 303d listed water SCR_05_CMP14
Type: Competitive Projects
Subtype: Impaired Water Assessment
Status: ACTIVE
Start Date: 04/01/2014
End Date: 12/31/2014
Purpose: The purpose of the project is to monitor and evaluate portions of Mason Creek and its tributaries in Waukesha and Washington Counties. Mason Creek is currently 303d listed for pollutants including total phosphorus and sediment/total suspended solids, with impairments including low DO, degraded habitat and elevated Temperatures and yet it is still listed as a Class I Trout stream. It is also part of the Rock River TMDL area. CBSM volunteers currently collected data at multiple stations along the stream and have concerns with high turbidity even during drought periods. This project will also be used to augment the Mason Creek Watershed Protection Plan that Southeastern Wisconsin Regional Planning Commission (SEWRC) in conjunction with other local stakeholders are completing this year. Mason Creek and its tributaries drain to North Lake and are of particular concern to water quality of the lake and the water quality of the streams themselves.
Objective: The data are necessary to determine whether these streams are achieving their attainable uses in order to update the watershed tables, list segments of the waterbody that are not meeting their attainable uses, and assess the overall health of the watershed as required by Section 303(d) of the Clean Water Act. This will also provide a current baseline for any of the protection measures the local stakeholders plan to implement from the Protection Plan that will be created in conjunction with this work. Fisheries, water chemistry, quantitative habitat, continual temperature monitoring and macroinvertebrate data will be collected up to 4 sites on Mason Creek and one of its tributaries to help augment the data SEWRPC is collecting. The waterbody WBICs that will be sampled are Mason Creek (851100) and Unnamed Tributary to Mason Creek (851200). Current and new volunteers will be utilized to help with collecting samples where available. Currently level 2 CBSM monitoring has occurred on portions of Mason Creek.
Comments: New
Outcome: Fishery, water chemistry, quantitative habitat, and macroinvertebrate data will be collected on 3 sites on Mason Creek and 1 site on a tributary to Mason Creek. The four sites will be reconnected, and stations will be established early during the field season. Data will be collected during the field season of the 2014 calendar year. Data will be entered into the FH database and SWIMS in 2014. These data will be analyzed in late 2014 through early 2015. This information will help augment the Mason Creek Protection Plan that SEWRPC is developing this year. This information will also help provide a baseline of data for when the very enthusiastic local stakeholders start implementing protective measures for Mason Creek.
Study Design:
QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Helker, Craig D	TEAM_MEMBER	COMPLETE	04/01/2014	12/31/2014	Wisconsin DNR	
SEARLE, GREGORY S	SUPERVISOR	COMPLETE	04/01/2014	12/31/2014	Wisconsin DNR	
Sabre, Rachel A	COORDINATOR	ACTIVE	04/01/2014	12/31/2014	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
12/09/2013	Rachel Sabre	Proposed	
09/25/2014	Rachel Sabre	Progress: 50-75% Complete	Completed fish, habitat and water sampling. Need to go back in October and collect macroinvertebrates
12/01/2014	Rachel Sabre	Progress: 75-100% Complete	Have collected all data for 2014 season. Need to deliver bug samples to Stevens Point lab still. Will deliver before Dec 15, 2014 as required.
08/25/2015	Rachel Sabre	Progress: 75-100% Complete	draft Mason Creek Report to be submitted soon from SEWRPC

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Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	4 sites in Waukesha County
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	(total of 3.5 days) 1 day of reconing sites (set/mark stations and deploy thermisters) 2 days to complete fish and habitat and water samples, 1/2 day for collection of bugs & grab thermisters
3. Proposed Dates for Sample Collection	Recon (April), Fish/Habitat/Water Sample (July-September), Bugs (October)
4. List applicable databases and who will enter data?	Data will be entered into SWIMs, fish database and WATERS. Data will be entered by FTE, LTE's or state lab.
5. Did you receive competitive projects funding in the previous year?	No
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 with Baseline Survey		*****	12/31/2014	COMPLETE
Monitor Water Quality or Sediment		*****	12/31/2014	COMPLETE

Monitoring Stations

Station ID	Name	Comments
10042710	Mason Creek 17m US of West Shore Dr	
10042666	Mason Creek Farm Crossing 1300m US of Hwy CW	
10042668	Mason Creek West Branch	just water sample
10038441	Mason Creek at Petersen Rd	
10016883	Mason Creek upstream of CTH CW 30 Feet Gq=7	
10042667	Trib to Mason Creek at Farm Crossing	just water sample

Assessment Units

WBIC	Segment	Local Name	Official Name
851100	1	Mason Creek	Mason Creek

Lab Account Codes

Account Code	Description	Start Date	End Date
WT142	303D/TMDL MONITORING	05/03/2011	12/31/2014

Forms

Form Code	Form Name
VOL_RIVER	Citizen-Based Stream Monitoring
INORGANIC	Inorganic Lab - Field Data
CBSM-TEST	Macroinvertebrate Field Data
STREAM_MON	Stream Monitoring (Temp, DO, Trans, Flow)

Methods

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Method Code	Description
DNR-FPM 2502 TEMPERATURE - ELECTRONIC	DNR Field Procedures Manual, 2502 Temperature - Electronic
DNR-FPM 701.3 FIELD OBSERVATIONS AND MEASUREMENTS	DNR Field Procedures Manual, 701.3 Field Observations and Measurements
ELECTROFISHING: BACKPACK SHOCKER	ELECTROFISHING: BACKPACK SHOCKER
HABITAT SURVEY BASELINE PROTOCOLS	Habitat Baseline Survey Quantitative 2004
MACROINVERTEBRATE BASELINE PROTOCOLS	Macroinvertebrate Baseline Protocols 2004 D-frame Kick Net
DNR-FPM-SONDES2006	Multi-Parameter Field Data - 2006 Sondes Guidelines
GRAB SAMPLE	Water Grab Sample (2005) Guidelines and Procedures

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
08/18/2014 09:40	COMPLETE	MASON CREEK @ F	10038441	Mason Creek at Petersen Rd
08/18/2014 10:00	COMPLETE	MASON CREEK UP:	10016883	Mason Creek upstream of CTH CW 30 Feet Gq=7
08/28/2014 11:30	COMPLETE	20140828-01	10042667	Trib to Mason Creek at Farm Crossing
08/28/2014 11:50	COMPLETE	20140828-02	10042668	Mason Creek West Branch
10/28/2014 09:00	COMPLETE	20141028-68-01	10038441	Mason Creek at Petersen Rd
10/28/2014 09:30	COMPLETE	20141028-68-02	10042710	Mason Creek 17m US of West Shore Dr
10/28/2014 09:55	COMPLETE	20141028-68-03	10016883	Mason Creek upstream of CTH CW 30 Feet Gq=7
10/28/2014 10:15	COMPLETE	20141028-68-04	10042666	Mason Creek Farm Crossing 1300m US of Hwy CW

Documents

Title	Description	Author	Published	Comments
Mason Creek Tier III request		Jill Bedford, Tall Pines Conservancy		

Budget

Budget Description: Jan-June 2014 Budget **Start Date:** 04/01/2014 **End Date:** 06/30/2014

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	16	Hours	\$0.00	\$0.00	2 FTE (1 trips X 8 hours each trip)
LTE SAL	LTE Salary		Hours	\$13.00	\$0.00	
LTE FR	LTE Fringe				\$0.00	
LTE IND	LTE Indirect				\$0.00	
LTE TOT	LTE Total Cost				\$0.00	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	100	Miles	\$0.72	\$72.00	
MEAL	Meals	2	Meals	\$4.00	\$8.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$80.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$80.00	

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

Total Budget: \$80.00

Budget Description: July- Dec 2014 Budget	Start Date: 07/01/2014	End Date: 12/31/2014
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	36	Hours	\$0.00	\$0.00	2 FTE (2 trip X 8 hours each trip) + 4 hours for bugs
LTE SAL	LTE Salary	36	Hours	\$13.00	\$468.00	2 LTE's (2 trip X 8 hours each trip) + 4 hour data entry
LTE FR	LTE Fringe				\$115.60	
LTE IND	LTE Indirect				\$94.37	
LTE TOT	LTE Total Cost				\$677.96	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	300	Miles	\$0.72	\$216.00	
MEAL	Meals	9	Meals	\$4.00	\$36.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$252.00	
BUG	Bug Contracts	3		\$180.00	\$540.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$1,469.96	

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

Total Budget: \$1,469.96

Combined Budgets: \$1,549.96

Combined SLOH: \$0.00

Combined Total: \$1,549.96

Funding

Organization	Source	Type	Amount	Start Date	End Date
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