Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: SER_06_CMP12

Name: SER_06_CMP12 CBSM of Unnamed Tributary (Prairie Stream) to Lake Michigan

Type: Citizen Based Stream Monitoring

Subtype: Volunteer Monitoring

Status: ACTIVE

Start Date: 7/1/2011

End Date: 6/30/2012

Purpose: The Water Action Volunteers Program involves citizen monitors in the process of collecting water quality data used by the DNR to assist in making management decisions. Goals of the program include collecting high quality data that can be used for management decisions, building relationships between DNR staff and citizen monitors, and assessing areas in need of additional monitoring, restoration and/or protection. Ultimately, volunteer participation in this project aids DNR staff by allowing for increased capabilities to monitor streams. Communities and the DNR can use this water quality information to make decisions that affect the management of streams throughout Wisconsin.

Objective: Data collected by Water Action Volunteers can be used by DNR staff as screening tools. The process of data collection helps Wisconsin citizenry enhance their understanding of data collection and in many cases, move to more sophisticated data collection work including biological and additional physical site data..

Comments: This project is a cooperative effort between Scott Dizack (a long-term CBSM volunteer), The Johnson Foundation at Windspread, and students at the Prairie School in Wind Point.

Sampling will be conducted on a bi-weekly basis, through September 1st, 2011, at three locations on the stream. Sampling parameters will be DO, pH, Temp, TSS, Total Phosphorus, and water clarity.

Outcome: Identification of the level of phosphorus in the Unnamed Tributary. This, combined with possible source identification conducted during the monitoring season, will allow for the creation of a remediation approach.

Study Design: The Level 2 stream monitoring sampling plan is consistent with statewide baseline monitoring guidelines laid out in the DNR's Water Resources Monitoring Strategy for Wisconsin.
• DNR or county staff recommends sites that could be useful to have monitored based on needs to acquire status or trends information, or other types of monitoring that is priority.
• Volunteers are asked to monitor, at least, from May through September
• Volunteers choose primary (P) and secondary (S) sampling dates in advance and note on their data sheets on which of those dates they monitored.
• Volunteers are asked to sample on the primary date unless there are safety concerns about being at the stream site (e.g., tornado, lightning, dangerously high flows) or a family emergency.
• The goal is to monitor at the same time each month, preferably 30 days apart from the last monitoring visit.
• Volunteers are instructed to enter data by the end of each month.

Parameters Measured:
• Dissolved oxygen (concentration)
• Dissolved oxygen (saturation)
• Transparency
• Temperature (instantaneous and continuous measurements)
• pH.

QA Measures: Program Coordinator or Local Coordinators visit with 10% of volunteer stations annually to conduct side-by-side monitoring of dissolved oxygen and pH, using his/her own meter to check that volunteers are calibrating meters and following methods correctly, to ensure the equipment is functioning properly, and to answer any questions or concerns. The Data Managers run monthly database queries throughout the field season to evaluate the quality of data entered into the database and follow-up with volunteers to address anomalies that are identified.

People

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Name	Role	Status	Start Date	End Date	Organization	Comments
Dizack, Scott and Maya	TEAM_MEMBER	ACTIVE	6/20/2011		Pewaukee Area Monitors	
Helker, Craig D	COORDINATOR	ACTIVE	7/1/2011	7/2/2012	Wisconsin DNR	Project liaison
Nicholas (nee Van Gheem), Kath	QUALITY_CONTROL	INACTIVE	7/17/2013	10/7/2014	Clean Lakes Alliance	

Project Statuses

Date	Reported By	Status	Comments
5/10/2011	Craig Helker	Proposed	
1/17/2012	Craig Helker	Progress: 75-100% Complete	Monitoring completed by Scott Diczak and students of Prairie School. Met with volunteers, agreed to expand monitoring, student involvement, and partnerships in the watershed. Wingspread Foundation agreed to host a forum on Prairie Stream, allowing students to present data and take project ownership. Small summary document will be completed by April, 2012.
10/3/2012	Craig Helker	Progress: 75-100% Complete	Summary doc to be compled 12/15/2012.
10/15/2013	Craig Helker	Progress: 75-100% Complete	Summary doc to be completed 12/31/2013.

Actions

Action	Detailed Description	Start Date	End Date	Status
Citizen-Based Stream Monitoring	Monitor Phosphorus and TSS at three locations on Unnamed Tributary to Lake Michigan	7/1/2011	7/2/2012	COMPLETE

Monitoring Stations

Station ID	Name	Comments
10033791	Prairie Stream North	
10033793	Prairie Stream South	
10033792	Prairie Stream at Lake Michigan	

Assessment Units

WBIC	Segment	Local Name	Official Name
20	12	Lake Michigan	Lake Michigan
5578068	1	Local Water	Unnamed
5590267	1	Local Water	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
WT134	CITIZEN RIVER MONITORING	7/1/2011	6/30/2012

Forms

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Form Code	Form Name
VOL_RIVER	Citizen-Based Stream Monitoring

Methods

Method Code	Method Description
CBSM_FIELD_METHODS_STREAM_CHEMISTRY	CBSM Field Methods for Stream Monitoring 2010
CBSM_PP_FIELD_METHODS	CBSM Stream Monitoring YSI DO Meter 2009
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
4/21/2011 12:45	COMPLETE		10033791	Prairie Stream North
7/9/2011	COMPLETE		10033793	Prairie Stream South
7/9/2011 9:50	COMPLETE		10033792	Prairie Stream at Lake Michigan
7/9/2011 9:50	COMPLETE		10033792	Prairie Stream at Lake Michigan
7/9/2011 10:25	COMPLETE		10033791	Prairie Stream North
7/9/2011 10:25	COMPLETE		10033791	Prairie Stream North
7/9/2011 11:05	COMPLETE		10033793	Prairie Stream South
7/23/2011 8:05	COMPLETE		10033792	Prairie Stream at Lake Michigan
7/23/2011 8:20	COMPLETE		10033792	Prairie Stream at Lake Michigan
7/23/2011 8:39	COMPLETE		10033791	Prairie Stream North
7/23/2011 8:40	COMPLETE		10033791	Prairie Stream North
7/23/2011 9:00	COMPLETE		10033793	Prairie Stream South
7/23/2011 9:02	COMPLETE		10033793	Prairie Stream South
8/6/2011 8:10	COMPLETE		10033792	Prairie Stream at Lake Michigan
8/6/2011 8:10	COMPLETE		10033792	Prairie Stream at Lake Michigan
8/6/2011 8:45	COMPLETE		10033791	Prairie Stream North
8/6/2011 8:59	COMPLETE		10033791	Prairie Stream North
8/6/2011 9:10	COMPLETE		10033793	Prairie Stream South
8/6/2011 9:11	COMPLETE		10033793	Prairie Stream South
8/20/2011 8:00	COMPLETE		10033792	Prairie Stream at Lake Michigan
8/20/2011 8:06	COMPLETE		10033792	Prairie Stream at Lake Michigan
8/20/2011 9:05	COMPLETE		10033791	Prairie Stream North
8/20/2011 9:08	COMPLETE		10033791	Prairie Stream North
8/20/2011 9:25	COMPLETE		10033793	Prairie Stream South
8/20/2011 9:26	COMPLETE		10033793	Prairie Stream South

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9/3/2011 8:20	COMPLETE		10033792	Prairie Stream at Lake Michigan
9/3/2011 8:23	COMPLETE		10033792	Prairie Stream at Lake Michigan
9/3/2011 8:45	COMPLETE		10033791	Prairie Stream North
9/3/2011 8:45	COMPLETE		10033791	Prairie Stream North
9/3/2011 9:30	COMPLETE		10033793	Prairie Stream South
9/3/2011 9:31	COMPLETE		10033793	Prairie Stream South
4/20/2012 12:45	COMPLETE		10033792	Prairie Stream at Lake Michigan
6/16/2012 8:25	COMPLETE		10033792	Prairie Stream at Lake Michigan
6/16/2012 10:10	COMPLETE		10033793	Prairie Stream South
6/30/2012 8:10	COMPLETE		10033792	Prairie Stream at Lake Michigan
6/30/2012 8:35	COMPLETE		10033793	Prairie Stream South
8/11/2012 8:10	COMPLETE		10033792	Prairie Stream at Lake Michigan
8/11/2012 8:30	COMPLETE		10033793	Prairie Stream South
4/19/2013 13:00	COMPLETE		10033792	Prairie Stream at Lake Michigan
6/8/2013 8:15	COMPLETE		10033791	Prairie Stream North
6/8/2013 8:15	COMPLETE		10033792	Prairie Stream at Lake Michigan
6/8/2013 8:50	COMPLETE		10033793	Prairie Stream South
6/22/2013 8:25	COMPLETE		10033792	Prairie Stream at Lake Michigan
6/22/2013 8:30	COMPLETE	QA_Check	10033792	Prairie Stream at Lake Michigan
6/22/2013 8:50	COMPLETE	QA_Check	10033793	Prairie Stream South
6/22/2013 8:50	COMPLETE		10033793	Prairie Stream South
6/22/2013 9:10	COMPLETE		10033791	Prairie Stream North
7/13/2013 8:10	COMPLETE		10033792	Prairie Stream at Lake Michigan
7/13/2013 8:35	COMPLETE		10033793	Prairie Stream South
7/13/2013 9:10	COMPLETE		10033791	Prairie Stream North
8/10/2013 8:00	COMPLETE		10033792	Prairie Stream at Lake Michigan
8/10/2013 8:25	COMPLETE		10033793	Prairie Stream South
8/10/2013 8:45	COMPLETE		10033791	Prairie Stream North
8/24/2013 8:00	COMPLETE		10033792	Prairie Stream at Lake Michigan
8/24/2013 8:30	COMPLETE		10033793	Prairie Stream South
8/24/2013 9:00	COMPLETE		10033791	Prairie Stream North
5/31/2014 8:30	COMPLETE		10033792	Prairie Stream at Lake Michigan
5/31/2014 9:00	COMPLETE		10033793	Prairie Stream South
5/31/2014 9:30	COMPLETE		10033791	Prairie Stream North

Documents

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Title	Description	Author	Published	Comments
Algae at the Shore	Algae building up at the Prairie Stream flow into Lake Michigan being monitored by Students from Prairie School	Scott Dizack	8/26/2011	
Prairie Stream QA Plan 2012	CBSM OF UNNAMED TRIBUTARY (PRAIRIE STREAM) TO LAKE MICHIGAN	WDNR	12/19/2014	
Prairie Student Monitors	Prairie School students checking turbidity at the Wingspread Ponds outflow (Prairie Stream North)	Scott Dizack	8/26/2011	
Prairie Student Monitors	Prairie School 3rd grade class continued interest and committment to clean up Prairie Stream.	Scott Dizack	8/26/2011	
Study Results Prairie Stream 2012			12/19/2014	

Budget

Budget Description: Budget for SER_06_CMP12 CBSM of Unnamed Tributary to Lake Michigan **Start Date:** 7/1/2011 **End Date:** 6/30/2012

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	10	Hours	$0.00	$0.00	Liaison with CBSM contact
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	5		$19.00	$95.00	Sample shipping via US Postal Service
MILEAGE	Mileage		Miles	$0.72	$0.00	
MEAL	Meals		Meals	$9.00	$0.00	
LODGE	Lodging				$0.00	
TRAVEL	Travel Total				$0.00	
BUG	Bug Contracts				$0.00	
OTHER	Other Contracts				$0.00	
EQUIP	Equipment				$0.00	
USGS	USGS Costs				$0.00	
TOTAL	Total Cost (excludes SLOH)				$95.00	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	15	$23.60	$354.00
I650JLT	SUSPENDED SOLIDS (EPA METHOD 160.2)	INORGANIC CHEMISTRY	15	$12.78	$191.70

Total WSLH Lab Costs: $545.70

Total Budget: $640.70

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Combined Budgets:	$95.00
Combined WSLH:	$545.70
Combined Total:	$640.70

Funding

Organization	Source	Type	Amount	Start Date	End Date