

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: NOR_18_CMP10

Name: Impaired Waters (303d) Evaluation and Monitoring for Biological Recovery of Newton Creek (2843650) and Hog Island Inlet

Type: Targeted Monitoring

Subtype: Watershed Project

Status: ACTIVE

Start Date: 07/01/2009

End Date: 06/30/2010

Purpose: This project is continued monitoring for a 3-year project, of which this upcoming fiscal year would be year-2 of the project. Last year it was NOR1_09.

Objective: This project involves evaluating 303d waters including Newton Creek and Hog Island Inlet which is required for proposing removal of waters from the state's impaired waters list. To complete necessary monitoring as required by EPA To determine if Newton Creek and Hog Island Inlet are meeting their designated or attainable uses (as described by Chapter NR 102) after recent remediation efforts to remove aquatic atoxicity impairments caused by metals, pH's, and petroleum pollutants. Post-monitoring evaluation of the biological recovery of these waterbodies will further determine the overall success of remediation efforts towards substantially improving water quality and whether or not these waterbodies may be removed from the 303(d) list.

Comments: Project Category 1: Performance Measure SP 12 (Measure W) for high priority federal reporting purposes.

Outcome: Newton Creek:

Macroinvertebrates: contracted out to LSRI to sample 3 sites, spring and fall, in 2008, 2009, 2010. Sampling complete by December 1 each year.

Fish Community: sample 2 sites once/yr in 2008, 2009, 2010. To be completed by September 30th each yr with data entry complete by Dec. 31st.

Water quality monitoring: 2 sites, non-event and event sampling.

Hog Island Inlet:

Macroinvertebrates: contracted out to LSRI to sample 4 sites once/yr in 2009 and 2010. Complete sampling by Sept. 30th each yr.

Fish Community: sample 3 sites once/yr by Mini-fyke netting in 2008 - 2010. Electrofish shoreline with mini-boomshocker in 2008 and 2010. Fish sampling complete by Sept 30th each year with data entry complete by Dec 31st.

Macrophyte community: Conduct point-intercept surveys of aquatic plants in 2008 - 2010 by August 31 each yr.

Water quality monitoring conducted on Hog Island in conjunction with sampling on Newton Creek.

Final Report:

Write a final report to summarize all findings and to make comparisons with historic data by June 30, 2011. Report will discuss/evaluate the overall biological and physical recovery of Newton Creek and Hog Island Inlet and make recommendations for future management in regards to status on 303d list.

Project Statuses

Date	Reported By	Status	Comments
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Project Status Detail

Question	Answer
1. Project Category (SP 12 (Measure W); 303(d) Waters; Continuation (TMDL, Use Designation); New Projects; Wetlands, CBSM	Category 1, SP measure 12, continued monitoring.
2. Regional Priority by Category (ex: SP12-1, SP12-2, etc.)	
3. Number of Sample Sites (Enter the station IDs if you know them).	Fish Community-3 (minifyke)+1(electrofsh), Macrophytes and Water Quality-1.
4. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	Fish Community-3 (Minifyke) + 2 (electrofsh), Macrophytes-3, Water Quality-18.
5. Proposed Dates for Sample Collection	Macrophyte indexing in July each year. Water Quality monitoring for event and non-events yearly.
6. List applicable databases and who will enter data?	Fisheries Database. SWIMS. Data to entered by C. Manz or LTE. Water

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Question	Answer
7. FTE Hours (Funds) Needed	Quality entered by State Lab of Hygiene. 200 Hours Total.
8. LTE Hours (Funds) Needed	550 Hours Total.
9. Supplies - Describe in Detail	Supplies necessary for maintenance and calibration of water quality meters such as buffer solutions, fish sampling gear, etc, \$600. Expenses for shipping samples to the State Lab of Hygiene = 18 sampling dates X \$50/sample = \$900. Local travel to and from sites is about 5 miles or less one-way.
10. Describe Travel Needed	None
11. UWSP Macroinvertebrate Samples (How Many?)	None
12. Additional Contractual dollars - Who? What? and How much?	Contract with the Lake Superior Research Institute (LSRI) for \$26,100 for macroinvertebrate sampling, processing, and analyses, including report writing on findings. \$14,000 for Newton Creek sampling and \$12,100 for Hog Island core samples. This contract includes Newton Creek macroinvertebrate samples collected between fall 2003 and spring 2008 for a total cost of \$8750. Price per year is different - see attached budget doc.
13. Equipment - What is needed and Why? (New Equipment, Cost?)	Maintenance may be necessary of available equipment.
14. Capital Equipment >\$5,000 - Describe needed equipment [Note: Federal funds cannot be used to purchase capital equipment].	None
15. State Lab of Hygiene Analyses: Describe the number, type of parameters - See Worksheet	Newton Creek: 2 sites to be sampled approximately 6 times/year for 3 years for all parameters on worksheets except E. coli, fecal coliform, and chlorophyll a. This includes the sampling for PAH's (~36 samples total). Hog Island: 1 site sampled approximately 6 times yearly for 3 years, for all parameters on worksheet, with the exception PAH's which won't be sampled at Hog Island Inlet, and sampling for E. coli and fecal coliform - which will be sampled only in one year. See attached budget doc. for fiscal year 2010.
16. Partner Contributions: Describe any funding provided by other DNR programs or non-DNR contributions.	
17. Total Year 1 (Please itemize: \$LTE + \$SLOH + \$Equipment + \$Travel + \$UWSP Lab + \$Other) = _____	See NOR1_09 budget.
18. Total Year 2 (Please itemize: \$LTE + \$SLOH + \$Equipment + \$Travel + \$UWSP Lab + \$Other) = _____	See attached budget.
19. Project Total (Please itemize: \$LTE + \$SLOH + \$Equipment + \$Travel + \$UWSP Lab + \$Other) = _____	
20. Additional Comments	
21. Did you receive special projects funding during FY 2009?	Yes.
22. If yes to question 17, did you complete the projects including data entry and reports? If not, why not?	Partly yes. Some data entry is still upcoming, most sampling was done. Time/funding/staff (LTE) shortage constraints also inhibited all sampling. Reports later.
23. Reviewer Notes: Identify questions or issues with project (use during review period)	
24. Reviewer Decision: Is this project recommended for funding?	

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
MANZ, CORDELL H	COORDINATOR	ACTIVE	07/01/2009	06/30/2010	Wisconsin DNR	Water Resources Biologist, Superior, WI 715-392-0805

Actions

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Action	Detailed Description	Start Date	End Date	Status
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Monitoring Stations

Station ID	Name	Comments
163258	Lake Superior-Hog Island Inlet - Super Har Hi10	
163008	Newton Creek - 21st St Bel Murphy Oil	
163325	Newton Creek - Reach K Nc-29	
10029157	Superior Harbor - Inlet at Loonsfoot Landing, East of Hog Island Inlet	

Assessment Units

WBIC	Segment	Local Name	Official Name
2751300	1	Hog Island Inlet	Superior Bay
2843650	1	Newton Creek	Newton Creek
2843800	1	St. Louis River AOC, St. Louis River	Saint Louis River

Lab Account Codes

Account Code	Description	Start Date	End Date
WT108	Newton Creek & St. Louis Estua	07/01/2009	06/30/2010

Forms

Form Code	Form Name
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Methods

Method Code	Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
08/18/2009 12:15	COMPLETE	HOG-1	163258	Lake Superior-Hog Island Inlet - Super Har Hi10
08/18/2009 12:30	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
08/18/2009 12:30	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
08/18/2009 12:55	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
08/18/2009 12:55	COMPLETE	NC-2	163325	Newton Creek - Reach K Nc-29
09/14/2009 15:30	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
09/14/2009 15:30	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
	SCHEDULED	Hog-1	163258	Lake Superior-Hog Island Inlet - Super Har Hi10
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	SCHEDULED	NC-1	163325	Newton Creek - Reach K Nc-29
	SCHEDULED	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
	SCHEDULED	NC-2	163325	Newton Creek - Reach K Nc-29
	SCHEDULED	NC-2	163325	Newton Creek - Reach K Nc-29

Documents

Title	Description	Author	Published	Comments
PROPOSED BUDGET				

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Budget

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