

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: NOR_01_CMP09 ATTAINS

Name: Impaired waters listing evaluation and post-monitoring for biological recovery of Newton Creek (2843650) and Hog Island Inlet

Type: TMDL/303d Projects

Subtype: Evaluate for Delisting

Status: FINAL_RPT

Start Date: 07/01/2008

End Date: 06/30/2011

Purpose: 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.

Objective: 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 toxicity 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.

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
GRAHAM, JOSEPH R	COORDINATOR	ACTIVE	07/01/2008	12/31/2013	Wisconsin DNR	
LAVIGNE, CLIFFORD R	COORDINATOR	INACTIVE	10/15/2010		Wisconsin DNR	
MANZ, CORDELL H	COORDINATOR	INACTIVE	07/01/2008	06/30/2011	Wisconsin DNR	Water Resources Biologist, Superior, WI 715-392-0805
Roesler, Craig P	COORDINATOR	COMPLETE	07/01/2013	12/31/2013	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
03/18/2008	CORDELL MANZ	Proposed	
04/16/2012	CLIFFORD LAVIGNE	Progress: 75-100% Complete	The Final Report is being edited and finalized.
10/22/2013	JOSEPH GRAHAM	Complete	Staff that were working on this project (Manz and LaVigne) have left state service. Field data and monitoring results were completed. Data summary tables were prepared. Results from this project may be incorporated into future reports.

Actions

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Action	Detailed Description	Start	End Date	Status
Monitor AOC Beneficial Use Impairments	Newton Creek. 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.	07/01/2008	06/30/2011	COMPLETE
Details:	Parameter	Value/Amount	Units	Comments
	Degraded Biological Community			
	Fish Community			
	Foam/Flocs/Scum/Oil Slicks			
	Macroinvertebrate Community			
	PAHs - (Fish Tissue, Sediment)			
	Total Phosphorus			
	Total Suspended Solids			
	Unknown Pollutant			
	Unspecified Metals			
Monitor or Propose 303(d) Listing	Newton Creek (2843650). 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.	07/01/2008	06/30/2011	IN_PROGRESS
Details:	Parameter	Value/Amount	Units	Comments
	Fish Community			
	Foam/Flocs/Scum/Oil Slicks			
	Macroinvertebrate Community			
	PAHs - (Fish Tissue, Sediment)			
	Unknown Pollutant			
	Unspecified Metals			
Monitor AOC Beneficial Use Impairments	Hog Island. 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.	07/01/2008	06/30/2011	IN_PROGRESS

Monitoring Stations

Station ID	Name	Comments
10029968	Hog Island Inlet - Minifyke Netting	
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

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Lab Account Codes

Account Code	Description	Start Date	End Date
WT104	NEWTON CREEK & ST LOUIS RIVER	01/01/1960	12/31/2099

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
07/01/2008 10:50	COMPLETE	HOG-1	163258	Lake Superior-Hog Island Inlet - Super Har Hi10
07/01/2008 10:50	COMPLETE	HOG-1	163258	Lake Superior-Hog Island Inlet - Super Har Hi10
07/01/2008 11:50	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
07/01/2008 11:50	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
07/01/2008 12:25	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
07/01/2008 12:25	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
08/05/2008 11:40	COMPLETE	HOG-1	163258	Lake Superior-Hog Island Inlet - Super Har Hi10
08/05/2008 11:40	COMPLETE	HOG-1	163258	Lake Superior-Hog Island Inlet - Super Har Hi10
08/12/2008 15:00	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
08/12/2008 15:00	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
08/12/2008 15:35	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
08/29/2008	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
08/29/2008 11:45	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
08/29/2008 11:45	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
08/29/2008 12:15	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
08/29/2008 12:45	COMPLETE	HOG-1	163258	Lake Superior-Hog Island Inlet - Super Har Hi10
09/02/2008 10:40	COMPLETE	HOG-1	163258	Lake Superior-Hog Island Inlet - Super Har Hi10
09/05/2008 16:20	COMPLETE	SHLF-1	10029157	Superior Harbor - Inlet at Loonsfoot Landing East of Hog Island Inlet
06/24/2009 07:50	COMPLETE	HOG-1	163258	Lake Superior-Hog Island Inlet - Super Har Hi10
06/24/2009 07:50	COMPLETE	HOG-1	163258	Lake Superior-Hog Island Inlet - Super Har Hi10
06/24/2009 08:20	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
06/24/2009 08:20	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
06/24/2009 08:40	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
06/24/2009 08:40	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil

Documents

Title	Description	Author	Published	Comments
303(d) Listing Evaluation and Post-Monitoring for Biological Recovery of Newton Creek (2843650) and Hog Island Inlet (2751220) after Remediation Action			04/11/2011	
Hog Island Inlet Photo	Hog Island Inlet Photo	Helmuth, Lisa	01/02/2012	
NOR1_09		Cordell H. Manz	03/25/2008	Collecting 36 samples for PAH's for 2 sites over 3 years will cost ~ \$10,206. This would cost ~\$3,402 for 2008. Cost of

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Title	Description	Author	Published	Comments
Newton Creek and Hog Island Inlet Post-Remediation Assessment (2008 - 2014) Final Report	Project final report	Joe Graham and Craig Roesler	08/24/2015	project in 2008 without PAH sampling would be \$15,283, if part and not all of project can be funded. Cutting all water chemistry sampling could reduce pricetag more if absolutely necessary. Final report for monitoring of macroinvertebrates, fish, water quality, sediment quality, and macrophytes from 2008 & 2014 in Newton Creek and Hog Island Inlet to assess the condition of these waters and biological recovery following remediation of contaminated sediments in 2005.
Newton Creek photo PROPOSED BUDGET	Newton Creek Master Spreadsheet for Project Budget 2010 Projects	Helmuth, Lisa Arneson, Ron	01/02/2012 02/03/2009	

Budget

Combined Budgets:

Combined SLOH:

Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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