

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: GLRI_00E00489-0

Name: Sheboygan AOC Pathway to Delisting Habitat BUI's - Survey and Assessment

Type: Great Lakes Restoration Initiative

Subtype: Toxics and Areas of Concern

Status: ACTIVE

Start Date: 10/01/2010

End Date: 12/31/2099

Purpose: The lower Sheboygan River and Harbor were designated a Great Lakes Area of Concern (AOC) in 1985 by the International Joint Commission (IJC). This AOC encompasses the lower river downstream from the Sheboygan Falls Dam including the entire harbor and nearshore area of Lake Michigan. In the Sheboygan River, it is suspected that high levels of nutrients, solids, and toxic chemicals along with land use changes have contributed to the degradation of animal and plant populations and the reduction in fish and wildlife habitat and populations. Two of the Nine Beneficial Use Impairments (BUIs) identified for the Sheboygan River and Harbor AOC include:

- degradation of fish and wildlife populations
- loss of fish and wildlife habitat

Objective: This project is intended to support the development of delisting strategies and a fish and wildlife population and habitat restoration plan to address the ¿fish and wildlife population¿ and ¿fish and wildlife habitat¿ beneficial use impairments for the Sheboygan River and Harbor Area of Concern. This project includes a rapid ecological assessment using historical and current data, as well as conducting new field surveys, as needed, to fill data gaps or update data needed for the assessment. This project is part of an overall collaboration with the Sheboygan River Basin Partnership who is also seeking a grant from the Great Lakes Restoration Initiative under the same project name.

Comments: \$202,181

Time Line: Funds are anticipated to be available July 1, 2010. DNR Project is to be completed by July 1, 2012.

July 2010 to April 2011. DNR Review of historical and current data. This will help guide DNR field survey work and contribute to the development of the ecological assessment.

January 2011 to October 2011. DNR Field Surveys - initial findings available by January 1, 2012. Final ecological assessment report will be completed by June 30, 2012.

January 2012 to December 2012. Work with SRBP Fish & Wildlife Technical Advisory Committee to develop fish and wildlife habitat and population BUI delisting strategies and restoration plan. Plan to be finalized by SRBP in December of 2012.--NOTE: THIS PART OF THE PROJECT WAS NOT FUNDED.

Outcome: The end goal is for all of the Great Lakes Areas of Concern to be restored and protected so that they can be ¿delisted,¿ or removed from the list of 43 AOCs within the Great Lakes. This proposal is intended to support a comprehensive restoration planning project with the Sheboygan River Basin Partnership (SRBP). The information supplied and collected by DNR staff will be used to develop a strategy for delisting the fish and wildlife beneficial use impairments (BUI¿s) in the Sheboygan River and Harbor AOC. The data from the field surveys will be finalized within an ecological assessment report for the Sheboygan AOC. Outputs include field survey data reports and an ecological assessment report for the Area of Concern. This information will be used to further refine specific delisting targets for fish and wildlife habitat and populations along with development of a comprehensive AOC fish and wildlife habitat restoration plan.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
BEYLER, SUSAN M	TEAM_MEMBER	ACTIVE	06/09/2011		Wisconsin DNR	
Boyle, Owen	TEAM_MEMBER	ACTIVE	06/09/2011		WDNR	
Clark, Andy	TEAM_MEMBER	ACTIVE	06/09/2011		WDNR	
DINSMORE, DONALEA	COORDINATOR	ACTIVE	12/20/2010		Wisconsin DNR	
EGGOLD, BRADLEY T	TEAM_MEMBER	ACTIVE	06/09/2011		Wisconsin DNR	

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Name	Role	Status	Start Date	End Date	Organization	Comments
HRON, STACY L	COORDINATOR	ACTIVE	10/01/2010	12/31/2099	Wisconsin DNR	
Katsma, Dale	TEAM_MEMBER	ACTIVE	06/08/2011		WDNR	
LAST, LAUREL L	COORDINATOR	ACTIVE	10/01/2010	12/31/2099	Wisconsin DNR	
MASTERTON, JOHN P	PROJECT_LEAD	ACTIVE	10/01/2010	12/31/2099	Wisconsin DNR	
MILLER, DUSTIN P	TEAM_MEMBER	ACTIVE	06/09/2011		Wisconsin DNR	
MOTL, TRAVIS M	TEAM_MEMBER	ACTIVE	06/09/2011		Wisconsin DNR	
PAPPAS, VICTOR C	PROJECT_LEAD	ACTIVE	10/01/2010	12/31/2099	Wisconsin DNR	
Redell, Dave	TEAM_MEMBER	ACTIVE	06/09/2011		WDNR	
SEARLE, GREGORY S	COORDINATOR	ACTIVE	10/01/2010	12/31/2099	Wisconsin DNR	
Sparrow-Lien, Missy	TEAM_MEMBER	ACTIVE	06/09/2011			

Project Statuses

Date	Reported By	Status	Comments
12/21/2010	DONALEA DINSMORE	Active	Interim approval for Wintering Bird Survey field work granted - Donalea Dinsmore
12/31/2010	LAUREL LAST	Progress: 0-25% Complete	Project is underway. Please see project status details.
03/31/2011	LAUREL LAST	Progress: 0-25% Complete	Project is underway. Wintering bird surveys completed. Wadable macroinvertebrate samples collected and at lab for analysis. Northern pike surveys initiated. Contractors hired for herptile and breeding bird surveys. Survey protocols and QAPP almost complete. QAPP requires some minor adjustments. Problems Encountered: EPA's desire for expedited delisting affected the scope and objectives of this project.
06/30/2011	LAUREL LAST	Progress: 25-50% Complete	Project is underway. Wintering bird surveys completed. Wadable macroinvertebrate samples collected and at lab for analysis. Northern pike surveys completed. Fish community, herptile, breeding bird, bat, natural community / rare plant / invasive plant, and kingfisher nest surveys initiated. QAPP almost complete--requires some minor adjustments for approval. Problems Encountered: High Sheboygan River flow made northern pike netting difficult. Shallow depths and rocks in upper portion of AOC made bat survey difficult and dangerous (will not be canoeing that section again).
09/30/2011	LAUREL LAST	Progress: 50-75% Complete	Project is underway. All field work is complete except for mussel surveys and mink trapping efforts by professional mink trapper. Herptile survey final reports complete. All other segments of project require at least some data analysis and interpretation before the information is incorporated into the final project report. QAPP has been submitted to EPA, review comments received, and response submitted to EPA--awaiting final QAPP approval. Problems encountered: Small mammal survey could not trap all the species planned--had to modify sampling design.

Project Status Detail

Question	Answer
1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4):	Q4
2. Amount expended this reporting period:	Dollars spent: --Fish: \$3,678.07 (includes supplies, including truck mileage, meals,

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Question	Answer
	monitoring equipment/supplies). --Macroinvertebrates and Fish Habitat: \$287.48 (mileage). --Herptiles: \$2000 for herptile assessment (contract awarded Q2). --Small Mammals: ~\$2,000 (supplies, mostly traps, trap supplies, and vehicle miles). --All other segments of project: \$0 spent.
	LTE hours used: --Fish: 225 LTE hours (\$2,536.02). --Macroinvertebrates and Fish Habitat: 165.5 LTE hours. --Natural community / rare plant / invasive plants: 40 LTE hours (\$697.20). --Wildlife (Kingfisher Nests and Small Mammals): \$4,213 LTE salary. --QAPP and Project QA: 87.5 LTE hours. Total hours to date = 367.5 out of 200 hours set aside from Watershed LTE hours. This should not be a problemâ€”Watershed LTE will not need those hours. --All other segments of project: 0 LTE hours used.
3. Subcontracts or subgrants awarded this reporting period:	All segments of project: 0 subcontracts awarded this quarter.
4. QAPP (Project Plan) status:	QAPP Status: Submitted final draft of QAPP to WDNR Quality Assurance Coordinator for approval. QAPP approved by Quality Assurance Coordinator and submitted to USEPA, review comments received from EPA, and response to review comments sent to EPA. Entered third quarterly report into SWIMS database. Still remaining: Receive final QAPP approval from EPA, distribute final QAPP, complete remaining quarterly meetings and reports, and perform QA/QC support and reporting as needed.
5. Local services and/or products purchased this reporting period:	QA activities: All segments of project: Only routine QA activities (data review and verification). No problems encountered that required corrective actions. --Small Mammals: 25 Sherman traps, 2 pesola scales, CO2 regulator & canister, 1 gallon of acetone, and miscellaneous trapping supplies.
6. Number of jobs created this reporting period:	--All Other Segments: No local services or products purchased. --Natural community / rare plant / invasive plants: About 2% of a full-time position (LTE hours). --All Other Segments: No jobs created.
7. Work accomplished this reporting period:	--Fish: Completed wadeable and non-wadeable fish community monitoring of 1 Onion River Site and 8 Sheboygan River Sitesâ€”all monitoring now complete. Entered all fish data into database and proofed. --Macroinvertebrates and Fish Habitat: Completed fish habitat surveys at 16 sites, aquatic plant surveys at 2 sites, and nonwadeable macroinvertebrate sampling at 1 siteâ€”all monitoring new complete. Macroinvertebrate samples have been analyzed for 15 wadeable sites. --Herptiles: Completed herptile surveys and 2 final reports (contractor). --Breeding Birds: Completed breeding bird surveys and submitted data (contractor). --Mussels: Started mussel surveys (contractor). --Bats: Completed bat surveys. Raw data submitted to WI Bat Monitoring Program for processing. --Natural community / rare plant / invasive plants: Completed natural community / rare plant / invasive plant surveys. --Wintering Birds: No work performed.

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Question**Answer**

8. Work goals for coming reporting period:

--Kingfisher Nests: Finished kingfisher nest surveys.
 --Small Mammals: Completed small mammal trapping w/ a total of 34 white-footed mice, 4 meadow voles, 4 masked shrews, 5 short-tailed shrews & 1 meadow jumping mouse.

Problems Encountered:
 Small mammal survey could not trap all the species plannedâ€”had to modify sampling design.

--Fish: Analyze data and prepare a draft of the fisheries section of the monitoring report.
 --Macroinvertebrates and Fish Habitat: Complete data entry. Analyze data and prepare draft report.
 --Herptiles: None (contract complete.)
 --Breeding Birds: Analyze breeding bird survey data (DNR).
 --Mussels: Complete mussel surveys and submit final report (contractor).
 --Bats: WI Bat Monitoring Program (bat ecologists) to review, process, and interpret/analyze bat data.
 --Natural community / rare plant / invasive plants: Begin data analysis for natural community / rare plant / invasive plant surveys.
 --Wintering Birds: Summarize data.
 --Kingfisher Nests: Complete data analysis and summary.
 --Small Mammals: Coordinate mink carcass collection with mink trapper (10/29 â€” 12/9). Submit small mammal samples for lab analysis. Complete data summary and analysis.
 --QAPP: Distribute final version of QAPP once approved by EPA.

Actions

Action	Detailed Description	Start	End Date	Status
Comprehensive Planning Studies	. This project is intended to support the development of delisting strategies and a fish and wildlife population and habitat restoration plan to address the ĳfish and wildlife populationĳ and ĳfish and wildlife habitatĳ beneficial use impairments for the Sheboygan River and Harbor Area of Concern. This project includes a rapid ecological assessment using historical and current data, as well as conducting new field surveys, as needed, to fill data gaps or update data needed for the assessment.	*****	12/31/2099	PROPOSED

Monitoring Stations

Station ID	Name	Comments
603480	Onion River - Ourtown Road	
10031889	Onion River - Upstream of CTHY A	
10031890	Onion River - Upstream of Risseeuw Road	
603378	Sheboygan River - (2b) Between Riverbend And Roller Mills Dams, 50' Upstream Kohler Carehouse, 8'Off Rdb	
10031888	Sheboygan River - Between Walderhaus and Riverbend Dams	
10011269	Sheboygan River - Sheboygan River Below Kohler Dams	
603434	Sheboygan River - Tecumseh Reach, Ldb, Across From	

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Station ID	Name	Comments
	Sediment Area 4	
10031887	Sheboygan River - Upstream of Weedens Creek Confluence	
10031829	Sheboygan River Upstream of New Jersey Ave	
603002	Sheboygan River at 8th Street	
603095	Sheboygan River at Sth 28 Sheboygan-Esslingen Park	
10031886	Storm Water Pond - At SW Corner of South Taylor Drive and County Highway PP Intersection	
10031564	Weedens Creek - Upstream of CTHY A	
10015600	Weedens Creek Upstream Of Sth 28	
10031891	Willow Creek - Upstream of Confluence with Sheboygan River	
10021113	Willow Creek - Upstream of Woodlake Road	
10009340	Willow Creek At Greendale Road	

Assessment Units

WBIC	Segment	Local Name	Official Name
50700	1	Sheboygan River	Sheboygan River
50740	2	Willow Creek	Unnamed
50800	1	Weeden'S Creek	Weedens Creek
50950	1	Unnamed Trib To Sheboygan River	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
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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
10/11/2010	COMPLETE	20101110-60-04	603434	Sheboygan River - Tecumseh Reach, Ldb, Across From Sediment Area 4
10/18/2010	COMPLETE	20101018-60-05	10021113	Willow Creek - Upstream of Woodlake Road
10/28/2010	COMPLETE	20101028-60-01	10031829	Sheboygan River Upstream of New Jersey Ave
10/28/2010	COMPLETE	20101028-60-02	603095	Sheboygan River at Sth 28 Sheboygan-Esslingen Park
10/28/2010	COMPLETE	20101028-60-03	10031891	Willow Creek - Upstream of Confluence with Sheboygan River
10/28/2010	COMPLETE	20101028-60-04	10009340	Willow Creek At Greendale Road
10/28/2010	COMPLETE	20101028-60-06	10011269	Sheboygan River - Sheboygan River Below Kohler Dams
10/28/2010	COMPLETE	20101028-60-07	10031564	Weedens Creek - Upstream of CTHY A
10/28/2010	COMPLETE	20101028-60-08	10015600	Weedens Creek Upstream Of Sth 28
11/03/2010	COMPLETE	20101103-60-02	10031890	Onion River - Upstream of Risseeuw Road
11/03/2010	COMPLETE	20101103-60-03	10031889	Onion River - Upstream of CTHY A
11/03/2010	COMPLETE	20101103-60-04	603480	Onion River - Ourtown Road
11/10/2010	COMPLETE	20101110-60-01	10031887	Sheboygan River - Upstream of Weedens Creek Confluence

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Start Date	Status	Field ID	Station ID	Station Name
11/10/2010	COMPLETE	20101110-60-02	603378	Sheboygan River - (2b) Between Riverbend And Roller Mills Dams, 50' Upstream Kohler Carehouse, 8'Off Rdb
11/10/2010	COMPLETE	20101110-60-03	10031888	Sheboygan River - Between Walderhaus and Riverbend Dams
07/15/2011 10:10	SCHEDULED	20110826-60-01	603002	Sheboygan River at 8th Street

Documents

Title	Description	Author	Published	Comments
2011 DNR Point Count Results and Summary Sheet - Breeding Birds	Breeding Bird Survey Data - Not to be Shared without a sharing agreement	Jeff Baughmann	09/01/2011	
2011 DNR Point Count Surveys - Narrative Report Breeding Birds	2011 Breeding Bird Report of Point Counts - Not to be shared without sharing agreement	Jeff Baughmann	09/01/2011	
2011 Sheboygan River AOC Herptile Survey and Habitat Assessment	Herptile Assessment in Sheboygan River AOC	Jason Dare	09/01/2011	
AOC Herp Map 2011	2011 Herptile Survey - map of survey units	Jason Dare	09/01/2011	
BBS Priority Sites	Survey Site Map for Breeding Birds - 2011	Jeff Baughmann	09/01/2011	
Macroinvertebrate QAPP	Sampling plan for macroinvertebrates - Last, Laurel incomplete QAPP		10/01/2010	
QAPP for Sheboygan AOC Pathway to Delisting Habitat BUIs-- Survey and Assessment	Quality Assurance Project Plan for Sheboygan AOC Pathway to Delisting Habitat BUIs--Survey and Assessment Project Version 1.0	Laurel Last	03/01/2011	This version of the QAPP is complete and approved by Vic Pappas and Laurel Last. It is not yet approved by Donalea Dinsmore, and may be modified before final approval. Appendices are not included.
SWIMS Project Summary Q3	SWIMS Project Summary Report including status details for Q3 (April - June 2011).	SWIMS	07/12/2011	
SWIMS Project Summary for Q2	SWIMS Project Summary Report including project status details for Q2 (January - March 2011).	SWIMS	07/12/2011	
Schuchardt Property Herptile Inventory	2011 Herptile Survey	Jason Dare	09/01/2011	
Sheboygan AOC Fish & Wildlife Survey & Assessment Budget Detail	Detailed budget for Sheboygan AOC fish and wildlife habitat and population assessment GLRI project.	Ryan Raab	06/24/2010	
Sheboygan AOC Fish and Wildlife Assessment			10/07/2010	Draft GLRI project proposal
Sheboygan AOC Fish and Wildlife Survey and Assessment Project Budget	Budget for Sheboygan AOC Fish and Wildlife Survey and Assessment GLRI project.	Ryan Raab	06/24/2010	
Sheboygan AOC Herptile Report	2011 Survey Report for Herptiles in Sheboygan River AOC	Jason Dare	09/01/2011	
Sheboygan AOC Pathway to Delisting Habitat BUIs-- Survey and Assessment Project Proposal	Final GLRI project proposal for Sheboygan River AOC fish and wildlife habitat and population assessment project.	Various	06/24/2010	
Sheboygan River AOC Project - Summary Report part 1	Part 1 of Final report for grant to the Sheboygan River Basin Partnership to Services assist WDNR in implementing 2011 GLRI-funded Baseline Assessments	Stantec Consulting	05/05/2011	

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Title	Description	Author	Published	Comments
Sheboygan River AOC Project - Summary Report part 2	and identify fish and wildlife habitat restoration projects in cooperation with the AOC Fish and Wildlife Technical Advisory Committee. Document was split into 4 parts to meet SWIMS file size limit. Part 2 of Final report for grant to the Sheboygan River Basin Partnership to Services assist WDNR in implementing 2011 GLRI-funded Baseline Assessments and identify fish and wildlife habitat restoration projects in cooperation with the AOC Fish and Wildlife Technical Advisory Committee. Document was split into 4 parts to meet SWIMS file size limit.	Stantec Consulting	05/05/2011	
Sheboygan River AOC Project - Summary Report part 3	Part 3 of Final report for grant to the Sheboygan River Basin Partnership to Services assist WDNR in implementing 2011 GLRI-funded Baseline Assessments and identify fish and wildlife habitat restoration projects in cooperation with the AOC Fish and Wildlife Technical Advisory Committee. Document was split into 4 parts to meet SWIMS file size limit.	Stantec Consulting	05/05/2011	
Sheboygan River AOC Project - Summary Report part 4	Part 4 of Final report for grant to the Sheboygan River Basin Partnership to Services assist WDNR in implementing 2011 GLRI-funded Baseline Assessments and identify fish and wildlife habitat restoration projects in cooperation with the AOC Fish and Wildlife Technical Advisory Committee. Document was split into 4 parts to meet SWIMS file size limit.	Stantec Consulting	05/05/2011	
Wintering Bird Survey	Study design for wintering bird survey	Laurel Last	12/20/2010	
Wintering Bird Survey QAPP	SAP for wintering bird study - interim approval to do field work granted - Donalea Dinsmore	Katsma, Dale and Last, Laurel	12/21/2010	

Budget

Combined Budgets:

Combined SLOH:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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