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		Wisconsin DNR	
Katsma, Dale	TEAM_MEMBER	ACTIVE	06/08/2011		WDNR	
LAST, LAUREL L	COORDINATOR	INACTIVE	10/01/2010	03/23/2012	Wisconsin DNR	
MASTERSON, 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	
STEIGER, MATTHEW B	TEAM_MEMBER	ACTIVE	03/27/2012		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% Cor	Project is underway. Please see project status details.
03/31/2011	LAUREL LAST	Progress: 0-25% Cor	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% Co	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% Co	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 plannedâ€"had to modify sampling design.
12/31/2011	LAUREL LAST	Progress: 50-75% Co	Project is underway. Mussel surveys and report are complete. About 28 days of mink trapping completed. The only field work remaining is some additional trapping for mink and weasels. No small mammal or mink samples have been sent to the lab for analysis yet. Additional data entry, analysis, and report writing occurred this quarter, but more needs to be done before information is incorporated into the final (Ecological Assessment)

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Date	Reported By	Status	Comments
			report. QAPP has been approved by EPA and distributed. Problems encountered: Mink trapping was made more difficult by fluctuating water levels and high numbers of raccoons. Also, Rich Staffen will be taking over Christina Isenring's roles in this project, since she has taken another position.
04/01/2012	MATTHEW STEIGER	Progress: 75-100% C	Project is underway. Field work for small mammal and mink trapping is complete. Data entry, analysis, and report writing occurred this quarter and all information has been encorporated into a draft documnet of the Rapid Ecological Assessment. All trapped animal specimines were submitted to SLOH for PCB analysis on March 20th. Results are expected by the end of June. Problems encounterd: low trapping success extended trapping later in the season than anticipated.

Project Status Detail

Question	Answer
1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4):	Q6
2. Amount expended this reporting period:	Grant dollars spent to date: $146,367.83 --Small Mammal and Mink: $219.53 trapping supplies and vehicle mileage --Macroinvertebrates and Fish Habitat: $76.19 cellular service and vehicle mileage -- Fish: Permanent Hours: 190 LTE Hours: 27 X $11 = $297 Supplies/Fringe = $288.48
3. Subcontracts or subgrants awarded this reporting period:	--All segments of project: 0 subcontracts awarded this quarter.
4. QAPP (Project Plan) status:	QAPP Status: Conducted quarterly project update meeting (combined with Sheboygan AOC TAC meeting). Entered quarterly report into SWIMS database. Still remaining: Complete remaining quarterly meetings and reports and perform QA/QC support and reporting as needed. QA activities: All other segments of project: Only routine QA activities (data review and verification). No problems encountered that required corrective actions.
5. Local services and/or products purchased this reporting period:	--Small Mammals and mink: Minimal trapping supplies. --All Other Segments: No local services or products purchased.
6. Number of jobs created this reporting period:	--All Segments: No jobs created.
7. Work accomplished this reporting period:	--Fish: Completed fisheries component of Rapid Ecological Assessment, draft of Aquatic Survey Report complete, assisted with white sucker tumor sampling. Created and presented PowerPoint presentation for public outreach. --Macroinvertebrates and Fish Habitat: Received final macroinvertebrate sample results from lab. Entered all data into appropriate databases and completed final report. Created and presented PowerPoint presentation for public outreach. Information provided to Ecological Assessment. --Herptiles: None (contract complete.) Information provided to Ecological Assessment. --Breeding Birds: Final report complete. Information provided to

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Question	Answer
	Ecological Assessment. --Mussels: None (contract complete.) Information provided to Ecological Assessment. --Bats: Information provided to Ecological Assessment. --Natural community / rare plant / invasive plants: Data summarized and entered in Ecological Assessment. --Wintering Birds: Created and presented PowerPoint presentation for public outreach. Information provided to Ecological Assessment. --Kingfisher Nests: Summary finished. Information provided to Ecological Assessment. --Small Mammals and Mink: For the small mammal collections, trapping continued to the end of February for mink and weasels. This was necessitated by the low trapping success rate and was facilitated by the mild winter. Data was entered, summarized, and information was provided to the Ecological Assessment. All small mammal, mink, and weasel samples were sent to the WSLH on March 20th. --Rapid Ecological Assessment Report: Data compiled, Assessment Draft written.
8. Work goals for coming reporting period:	--Fish: Finalize Aquatic Survey Report. --Macroinvertebrates and Fish Habitat: None (data and reporting complete). --Herptiles: None (contract complete). --Breeding Birds: None (data and reporting complete). --Mussels: None (contract complete). --Bats: WI Bat Monitoring Program: None (data interpretation complete). --Natural community / rare plant / invasive plants: None (data and reporting complete). --Wintering Birds: None (data and reporting complete). --Kingfisher Nests: None (data and reporting complete). --Small Mammals and Mink: Results from PCB analysis expected in June, finish report and add information to Ecological Assessment. --Rapid Ecological Assessment Report: Finish review of draft report, submit final report.

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 ¿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.	*******	12/31/2099	PROPOSED

Monitoring Stations

Station ID	Name	Comments
603480	Onion River - Ourtown Road	

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Station ID	Name	Comments
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 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 - US of Confluence with Sheboygan River N of Hwy PP	
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
WM006	SHEBOYGAN AOC	08/16/2010	07/01/2012

Forms

Form Code	Form Name

Methods

Method Code	Description

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 - US of Confluence with Sheboygan River N of Hwy PP

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Start Date	Status	Field ID	Station ID	Station Name
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
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	COMPLETE	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 Suvey 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	Final report for 2011 herptile surveys near Sheboygan River AOC. This version includes Introduction and Methods.	Jason Dare	01/05/2012	
2011 Sheboygan River AOC Herptile Survey and Habitat Assessment	Herpitile Assessment in Sheboygan River AOC	Jason Dare	09/01/2011	
AOC Herp Map 2011	2011 Herpitile Survey - map of survey units	Jason Dare	09/01/2011	
Appendix to QAPP for Sheboygan AOC Pathway to Delisting Habitat BUIs Project, Part 1	Part 1 (Appendices A and B) of Appendix to QAPP Version 1.1 for Sheboygan AOC Pathway to Delisting Habitat BUI's--Survey and Assessment Project	Laurel Last	07/20/2011	
Appendix to QAPP for Sheboygan AOC Pathway to Delisting Habitat BUIs Project, Part 2	Part 2 (Appendices C through F) of Appendix to QAPP Version 1.1 for Sheboygan AOC Pathway to Delisting Habitat BUI's--Survey and Assessment Project	Laurel Last	07/20/2011	
BBS Priority Sites	Survey Site Map for Breeding Birds - 2011	Jeff Baughmann	09/01/2011	
Bird species codes for Sheboygan AOC 2010-11 winter bird survey	Bird species codes for 2010-2011 winter bird survey of Sheboygan River AOC (from Wisconsin Society for Ornithology)	Dustin Miller	01/07/2011	
Macroinvertibrate QAPP	Sampling plan for macroinvertibrates - incomplete QAPP	Last, Laurel	10/01/2010	
Map of Sheboygan River AOC belted kingfisher nest locations	Map of belted kingfisher nest locations observed during 2011 Sheboygan River AOC surveys.	Dustin Miller	01/03/2012	
Onion River upstream of Cty A 2011 fish community	Field data sheet for 6/28/2011 fish community survey upstream of County	Travis Motl	06/28/2011	

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Title	Description	Author	Published	Comments
survey data sheet	Hwy A on Onion River (Site #11 of Sheboygan River AOC fish assessment).			
Onion River upstream of Ourtown Rd 2011 fish community survey data sheet	Field data sheet for 8/04/2011 fish community survey upstream of Ourtown Rd on Onion River (Site #10 of Sheboygan River AOC fish assessment).	Travis Motl	08/04/2011	
Onion River upstream of Risseeuw Rd 2011 fish community survey data sheet	Field data sheet for 6/28/2011 fish community survey upstream of Risseeuw Rd on Onion River (Site #12 of Sheboygan River AOC fish assessment).	Travis Motl	06/28/2011	
QAPP for Sheboygan AOC Pathway to Delisting Habitat BUIs-- Survey and Assessment	Quality Assurance Project Planfor 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.
QAPP for Sheboygan AOC Pathway to Delisting Habitat BUIs--Survey and Assessment Version 1.1	Official QAPP signed by EPA for Sheboygan AOC Pathway to Delisting Habitat BUI's--Survey and Assessment Project. Appendices saved separately.	Laurel Last	11/15/2011	
Qualitative Unionid Mussel Surveys and Habitat Assessment of the Sheboygan River AOC	Final report for the August-October 2011 mussel surveys of the Sheboygan River AOC.	Jason Dare	01/05/2012	
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	
SWIMS Project Summary for Q4	SWIMS 4th qtr project report for Sheboygan AOC Pathway to Delisting Habitat BUIs project.	SWIMS	10/17/2011	
SWIMS Project Summary for Q4 amended	SWIMS-generated 4th quarter report for Sheboygan AOC Pathway to Delisting assessment project--amended report.	SWIMS	12/21/2011	
SWIMS Project Summary for Q5	SWIMS-generated 5th quarter report for Sheboygan AOC Pathway to Delisting assessment project.	SWIMS	01/17/2012	
Schuchardt Property Herptile Inventory	2011 Herptile Survey	Jason Dare	09/01/2011	
Sheboygan AOC 2010-11 winter bird survey results	Results from 2010-2011 winter bird survey of Sheboygan River AOC.	Dustin Miller	10/06/2011	
Sheboygan AOC 2010-11 winter bird survey week 1 data sheets	Field data sheets for Week 1 of 2010-2011 winter bird survey of Sheboygan River AOC.	Dustin Miller	12/20/2010	
Sheboygan AOC 2010-11 winter bird survey week 2 data sheets	Field data sheets for Week 2 of 2010-2011 winter bird survey of Sheboygan River AOC.	Dustin Miller	01/05/2011	
Sheboygan AOC 2010-11 winter bird survey week 3	Field data sheets for Week 3 of 2010-2011 winter bird survey of Sheboygan	Dustin Miller	01/25/2011	

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Title	Description	Author	Published	Comments
data sheets	River AOC.			
Sheboygan AOC 2010-11 winter bird survey week 4 data sheets	Field data sheets for Week 4 of 2010-2011 winter bird survey of Sheboygan River AOC.	Dustin Miller	02/09/2011	
Sheboygan AOC 2010-11 winter bird survey week 5 data sheets	Field data sheets for Week 5 of 2010-2011 winter bird survey of Sheboygan River AOC.	Dustin Miller	02/23/2011	
Sheboygan AOC 2010-11 winter bird survey week 6 data sheets	Field data sheets for Week 6 of 2010-2011 winter bird survey of Sheboygan River AOC.	Dustin Miller	03/10/2011	
Sheboygan AOC 2010-11 winter bird survey week 7 data sheets	Field data sheets for Week 7 of 2010-2011 winter bird survey of Sheboygan River AOC.	Dustin Miller	03/25/2011	
Sheboygan AOC 2011 Black Wolf Run floodplain forest natural community report 1	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Black Wolf Run site floodplain forest community (1).	NHI Database	11/18/2011	
Sheboygan AOC 2011 Black Wolf Run floodplain forest natural community report 2	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Black Wolf Run site floodplain forest community (2).	NHI database	11/18/2011	
Sheboygan AOC 2011 Black Wolf Run hardwood swamp natural community report	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Black Wolf Run site hardwood swamp community.	NHI database	11/18/2011	
Sheboygan AOC 2011 Black Wolf Run natural community site evaluation	NHI Natural Community Site Evaluation for 2011 survey of Sheboygan River AOC Black Wolf Run site.	NHI database	11/18/2011	
Sheboygan AOC 2011 Black Wolf Run natural community survey field data sheets	Field data sheets for 2011 Natural community / Rare plant / Invasive plant survey of Sheboygan River AOC Black Wolf Run site. This includes WI NHI Site Summary form and WI NHI Natural Community forms and associated plant lists with abundance codes.	Andy Clark	07/07/2011	
Sheboygan AOC 2011 Black Wolf Run northern mesic forest natural community report 1	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Black Wolf Run site northern mesic forest natural community (1).	NHI database	11/18/2011	
Sheboygan AOC 2011 Black Wolf Run northern mesic forest natural community report 2	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Black Wolf Run site northern mesic forest natural community (2).	NHI database	11/18/2011	
Sheboygan AOC 2011 Black Wolf Run northern mesic forest natural community report 3	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Black Wolf Run site northern mesic forest natural community (3).	NHI database	11/18/2011	
Sheboygan AOC 2011 Black Wolf Run northern mesic forest natural community report 4	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Black Wolf Run site northern mesic forest natural community (4).	NHI database	11/18/2011	

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Sheboygan AOC 2011 Black Wolf Run northern mesic forest natural community report 5	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Black Wolf Run site northern mesic forest natural community (5).	NHI database	11/18/2011	
Sheboygan AOC 2011 Black Wolf Run unassigned natural community report	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Black Wolf Run site unassigned natural community.	NHI database	11/18/2011	
Sheboygan AOC 2011 Kiwanis Park natural community site evaluation	NHI Natural Community Site Evaluation for 2011 survey of Sheboygan River AOC Kiwanis Park site.	NHI database	11/18/2011	
Sheboygan AOC 2011 Kiwanis Park natural community survey field data sheets	Field data sheets for 2011 Natural community / Rare plant / Invasive plant survey of Sheboygan River AOC Kiwanis Park site. This includes WI NHI Site Summary form and WI NHI Natural Community form and associated plant list with abundance codes.	Andy Clark	05/24/2011	
Sheboygan AOC 2011 Kiwanis Park unassigned natural community report	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Kiwanis Park site unassigned natural community.	NHI database	11/18/2011	
Sheboygan AOC 2011 Schuchardt Property emergent marsh natural community report	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Schuchardt Property site emergent marsh natural community.	NHI database	11/18/2011	
Sheboygan AOC 2011 Schuchardt Property floodplain forest natural community report 1	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Schuchardt Property site floodplain forest natural community (1).	NHI database	11/18/2011	
Sheboygan AOC 2011 Schuchardt Property floodplain forest natural community report 2	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Schuchardt Property site floodplain forest natural community (2).	NHI database	11/18/2011	
Sheboygan AOC 2011 Schuchardt Property natural community site evaluation	NHI Natural Community Site Evaluation for 2011 survey of Sheboygan River AOC Schuchardt Property site.	NHI database	11/18/2011	
Sheboygan AOC 2011 Schuchardt Property natural community survey field data sheets	Field data sheets for 2011 Natural community / Rare plant / Invasive plant survey of Sheboygan River AOC Schuchardt Property site. This includes WI NHI Site Summary form and WI NHI Natural Community forms and associated plant lists with abundance codes.	Andy Clark	07/13/2011	
Sheboygan AOC 2011 Schuchardt Property southern dry forest natural community report	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Schuchardt Property site southern dry forest natural community.	NHI database	11/18/2011	

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Title	Description	Author	Published	Comments
Sheboygan AOC 2011 Schuchardt Property southern sedge meadow natural community report	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Schuchardt Property site southern sedge meadow natural community.	NHI database	11/18/2011	
Sheboygan AOC 2011 Taylor Drive natural community site evaluation	NHI Natural Community Site Evaluation for 2011 survey of Sheboygan River AOC Taylor Drive site.	NHI database	11/18/2011	
Sheboygan AOC 2011 Taylor Drive natural community survey field data sheets	Field data sheets for 2011 Natural community / Rare plant / Invasive plant survey of Sheboygan River AOC Taylor Drive site. This includes WI NHI Site Summary form and WI NHI Natural Community form and associated plant list with abundance codes.	Andy Clark	05/24/2011	
Sheboygan AOC 2011 Taylor Drive unassigned natural community report	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Taylor Drive site unassigned natural community.	NHI database	11/18/2011	
Sheboygan AOC 2011 UW Sheboygan floodplain forest natural community report	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC UW Sheboygan site floodplain forest natural community.	NHI database	11/18/2011	
Sheboygan AOC 2011 UW Sheboygan natural community site evaluation	NHI Natural Community Site Evaluation for 2011 survey of Sheboygan River AOC UW Sheboygan site.	NHI database	11/18/2011	
Sheboygan AOC 2011 UW Sheboygan natural community survey field data sheets	Field data sheets for 2011 Natural community / Rare plant / Invasive plant survey of Sheboygan River AOC UW Sheboygan site. This includes WI NHI Site Summary form and WI NHI Natural Community forms and associated plant lists with abundance codes.	Andy Clark	05/24/2011	
Sheboygan AOC 2011 UW Sheboygan northern mesic forest natural community report	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC UW Sheboygan site northern mesic forest natural community.	NHI database	11/18/2011	
Sheboygan AOC 2011 Willow (Wildwood) Island floodplain forest natural community report	Natural Community Database Summary Report for 2011 survey of Sheboygan River AOC Willow (Wildwood) Island site floodplain forest natural community.	NHI database	11/18/2011	
Sheboygan AOC 2011 Willow (Wildwood) Island natural community site evaluation	NHI Natural Community Site Evaluation for 2011 survey of Sheboygan River AOC Willow (Wildwood) Island site.	NHI database	11/18/2011	
Sheboygan AOC 2011 Willow (Wildwood) Island natural community survey field data sheets	Field data sheets for 2011 Natural community / Rare plant / Invasive plant survey of Sheboygan River AOC Willow (Wildwood) Island site. This includes WI NHI Site Summary form and WI NHI Natural Community forms	Andy Clark	07/12/2011	

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Title	Description	Author	Published	Comments
	and associated plant lists with abundance codes.			
Sheboygan AOC 2011 kingfisher nest survey data sheets	Field data sheets for kingfisher nest surveys conducted in 2011 along Sheboygan River AOC.	Dustin Miller	07/12/2011	
Sheboygan AOC 2011 northern pike spawning survey data sheets	Field data sheets for 3/29 â€“ 4/13/2011 northern pike spawning survey (fyke netting) upstream of Taylor Drive in Sheboygan River AOC.	Travis Motl	04/13/2011	
Sheboygan AOC 2011 small mammal survey data summary	Site GPS coordinates and species summary for 2011 small mammal survey of Sheboygan River AOC.	Dustin Miller	10/04/2011	
Sheboygan AOC 2011 small mammal survey week 1 data sheets	Field data sheets for Week 1 of 2011 small mammal survey of Sheboygan River AOC.	Dustin Miller	08/05/2011	
Sheboygan AOC 2011 small mammal survey week 2 data sheets	Field data sheets for Week 2 of 2011 small mammal survey of Sheboygan River AOC.	Dustin Miller	08/12/2011	
Sheboygan AOC 2011 small mammal survey week 3 data sheets	Field data sheets for Week 3 of 2011 small mammal survey of Sheboygan River AOC.	Dustin Miller	08/17/2011	
Sheboygan AOC 2011 small mammal survey week 4 data sheets	Field data sheets for Week 4 of 2011 small mammal survey of Sheboygan River AOC.	Dustin Miller	08/26/2011	
Sheboygan AOC 2011 small mammal survey week 5 data sheets	Field data sheets for Week 5 of 2011 small mammal survey of Sheboygan River AOC.	Dustin Miller	09/02/2011	
Sheboygan AOC 2011 small mammal survey week 6 data sheets	Field data sheets for Week 6 of 2011 small mammal survey of Sheboygan River AOC.	Dustin Miller	09/09/2011	
Sheboygan AOC 2011 small mammal survey week 7 data sheets	Field data sheets for Week 7 of 2011 small mammal survey of Sheboygan River AOC.	Dustin Miller	09/16/2011	
Sheboygan AOC 2011 small mammal survey week 8 data sheets	Field data sheets for Week 8 of 2011 small mammal survey of Sheboygan River AOC.	Dustin Miller	09/23/2011	
Sheboygan AOC 2011 small mammal survey week 9 data sheets	Field data sheets for Week 9 of 2011 small mammal survey of Sheboygan River AOC.	Dustin Miller	09/29/2011	
Sheboygan AOC Aug-Sept 2011 fish habitat survey data sheets	Field data sheets for 8/02-9/27/2011 qualitative fish habitat surveys for Sheboygan River AOC assessment (includes Onion River, Weedens Creek, and Willow Creek sites).	John Masterson	09/27/2011	
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	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 Herpitile Report	2011 Survey Report for Herptiles in Sheboygan River AOC	Jason Dare	09/01/2011	
Sheboygan AOC Oct-Nov 2010 macroinvertebrate survey data sheets	Field data sheets for 10/18-11/10/2010 macroinvertebrate surveys for Sheboygan River AOC	John Masterson	11/10/2010	

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Title	Description	Author	Published	Comments
	assessment (includes Onion River, Weedens Creek, and Willow Creek sites).			
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 AOC bat survey map 06142011	Map of bat species encountered during June 14, 2011 mobile acoustical bat survey of Sheboygan River AOC.	Owen Boyle	11/08/2011	
Sheboygan AOC bat survey map 07122011	Map of bat species encountered during July 12, 2011 mobile acoustical bat survey of Sheboygan River AOC.	Owen Boyle	11/08/2011	
Sheboygan AOC bat survey map legend	Legend for bat species maps for June and July 2011 mobile acoustical bat surveys of Sheboygan River AOC.	Owen Boyle	11/09/2011	
Sheboygan AOC kingfisher nest survey data summary	Data summary (Excel file) of 2011 Sheboygan River AOC kingfisher nest surveys (includes GPS coordinates).	Dustin Miller	01/13/2012	
Sheboygan AOC mussel report appendices	Appendices for 2011 Sheboygan AOC mussel survey report. Sheet 1 distribution IX page 24 Sheet 3 Richness IV page 18 Sheet 4 Relative Abun III page 17 Sheet 5 Freq VIII page 23 Sheet 6 raw data X page 25 sheet 7 shell point V page 19	Jason Dare	01/04/2012	
Sheboygan AOC mussel survey points	Appendix 1 of 2011 Sheboygan AOC mussel survey final report (mussel survey locations).	Jason Dare	01/04/2012	
Sheboygan River AOC Belted Kingfisher Monitoring Summary	Narrative report for 2011 kingfisher nest surveys in Sheboygan River AOC.	Dustin Miller	01/13/2012	
Sheboygan River AOC Project - Summary Report part 1	Part 1 of Final report for grant to the Sheboygan River Basin Partnership to 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 Services	05/05/2011	
Sheboygan River AOC Project - Summary Report part 2	Part 2 of Final report for grant to the Sheboygan River Basin Partnership to 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 Services	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 assist WDNR in implementing 2011	Stantec Consulting Services	05/05/2011	

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	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.			
Sheboygan River AOC Project - Summary Report part 4	Part 4 of Final report for grant to the Sheboygan River Basin Partnership to 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 Services	05/05/2011	
Sheboygan River Kohler Horse Farm riffle 2011 fish community survey data sheet	Field data sheet for 8/30/2011 fish community survey of Sheboygan River riffle near Kohler Horse Farm (new site for Sheboygan River AOC fish assessment).	Travis Motl	08/30/2011	
Sheboygan River Pathway to Delisting QAPP Addendum	Adds SOP for mudpuppy trapping and replaces SOP for PCB method ESS 1480	Donalea Dinsmore	11/18/2011	
Sheboygan River between Riverbend Dam and Waelderhaus Dam 2011 fish community survey data sheet	Field data sheet for 7/21/2011 fish community survey of Sheboygan River between Riverbend Dam and Waelderhaus Dam (Site #7 of Sheboygan River AOC fish assessment).	Travis Motl	07/21/2011	
Sheboygan River between Wildwood Island and 8th St 2011 daytime fish community survey data sheets	Field data sheets for 9/01/2011 daytime fish community survey of Sheboygan River from Wildwood Island to Kiwanis Park and from Kiwanis Park to 8th St (Sites #1 and #2 of Sheboygan River AOC fish assessment).	Travis Motl	09/01/2011	
Sheboygan River between Wildwood Island and 8th St 2011 nighttime fish community survey data sheets	Field data sheets for 9/01/2011 nighttime fish community survey of Sheboygan River from Wildwood Island to Kiwanis Park and from Kiwanis Park to 8th St (Sites #1 and #2 of Sheboygan River AOC fish assessment).	Travis Motl	09/01/2011	
Sheboygan River downstream of Kohler Stables 2011 fish community survey data sheet	Field data sheet for 7/19/2011 fish community survey of Sheboygan River downstream of Kohler Stables (Site #8 of Sheboygan River AOC fish assessment).	Travis Motl	07/19/2011	
Sheboygan River near Onion River confluence 2011 fish community survey data sheet	Field data sheet for 7/19/2011 fish community survey of Sheboygan River near Onion River confluence (Site #9 of Sheboygan River AOC fish assessment).	Travis Motl	07/19/2011	
Sheboygan River upstream of Kohler Municipal Garage	Field data sheet for 7/26/2011 fish community survey of Sheboygan River	Travis Motl	07/26/2011	

Title	Description	Author	Published	Comments
2011 fish community survey data sheet	upstream of Kohler municipal garage (Site #5 of Sheboygan River AOC fish assessment).			
Sheboygan River upstream of Taylor Dr wayside 2011 fish community survey data sheet	Field data sheet for 7/26/2011 fish community survey of Sheboygan River upstream of Taylor Drive wayside (Site #4 of Sheboygan River AOC fish assessment).	Travis Motl	07/26/2011	
Sheboygan River upstream of Weedens Creek confluence 2011 fish community survey data sheet	Field data sheet for 8/01/2011 fish community survey of Sheboygan River upstream of Weedens Creek confluence (Site #6 of Sheboygan River AOC fish assessment).	Travis Motl	08/01/2011	
UW-Sheboygan stormwater pond 2011 fish community survey data sheet	Field data sheet for 9/13/2011 fish community survey of UW-Sheboygan stormwater retention pond located adjacent to Sheboygan River and southwest of Hwy PP and Taylor Drive intersection (part of Sheboygan River AOC fish assessment).	Travis Motl	09/13/2011	
Weedens Creek upstream of Cty A 2011 fish community survey data sheet	Field data sheet for 6/13/2011 fish community survey of Weedens Creek upstream of Cty Hwy A (Site #17 of Sheboygan River AOC fish assessment).	Travis Motl	06/13/2011	
Weedens Creek upstream of Hwy 28 2011 fish community survey data sheet	Field data sheet for 6/14/2011 fish community survey of Weedens Creek upstream of Hwy 28 (Site #16 of Sheboygan River AOC fish assessment).	Travis Motl	06/14/2011	
Willow Creek upstream of Greendale Rd 2011 fish community survey data sheet	Field data sheet for 6/17/2011 fish community survey of Willow Creek upstream of Greendale Rd (Site #14 of Sheboygan River AOC fish assessment).	Travis Motl	06/17/2011	
Willow Creek upstream of Sheboygan River confluence 2011 fish community survey data sheet	Field data sheet for 6/17/2011 fish community survey of Willow Creek upstream of Sheboygan River confluence (Site #13 of Sheboygan River AOC fish assessment).	Travis Motl	06/17/2011	
Willow Creek upstream of Woodlake Rd 2011 fish community survey data sheet	Field data sheet for 6/17/2011 fish community survey of Willow Creek upstream of Woodlake Rd (Site #15 of Sheboygan River AOC fish assessment).	Travis Motl	06/17/2011	
Wintering Bird Survey	Study design for wintering bird survey	Laurel Last	12/20/2010	
Wintering Bird Survey QAPP	SAP for wintering bird study - interim approbal to do field work granted - Donalea Dinsmore	Katsma, Dale and Last, Laurel	12/21/2010	

Budget

Combined Budgets:

Combined SLOH:

Funding

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Organization	Source	Type	Amount	Start Date	End Date