

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPL162217

Name: COLUMBIA COUNTY: Silver Lake Model/Lake Plan Phase II

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: ACTIVE

Start Date: 2/15/2017

End Date: 12/31/2020

Purpose: Columbia County LWCD, with participation by City of Portage and UW-Extension, Stevens Point will conduct a comprehensive data collection and planning effort to improve Silver Lake. Two grants work together for this goal. This grant will develop a watershed and water quality modeling tool. They will conduct a shoreland inventory, and a groundwater investigation will be performed. A linked watershed/water quality model that combines urban hydrology and in-lake phosphorus will be developed. Through meetings and a social survey, user perceptions and attitudes will be gaged, and used to inform the development of the lake management plan and will help to identify strategies which are more likely to produce success in implementation. Deliverables include the watershed evaluation, linked watershed and lake model to understand water quality, and the lake management plan. Results of this study will be shared with the community via meetings, and posted on county and municipal websites.

Objective:

Comments: Grantee is COLUMBIA COUNTY

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Haney, Ryan	LEAD_EQUIPM ENT	ACTIVE	10/31/2017		UWSP	

Project Statuses

Date	Reported By	Status	Comments
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Actions

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Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	Columbia County LWCD, with participation by City of Portage and UW-Extension, Stevens Point will conduct a comprehensive data collection and planning effort to improve Silver Lake. Two grants work together for this goal. This grant will develop a watershed and water quality modeling tool. They will conduct a shoreland inventory, and a groundwater investigation will be performed. A linked watershed/water quality model that combines urban hydrology and in-lake phosphorus will be developed. Through meetings and a social survey, user perceptions and attitudes will be gaged, and used to inform the development of the lake management plan and will help to identify strategies which are more likely to produce success in implementation.	2/15/2017	12/31/2019	COMPLETE

Monitoring Stations

Station ID	Name	Comments
10012329	Silver Lake - East Basin	
113079	Silver Lake West Basin - Deep Hole	

Assessment Units

WBIC	Segment	Local Name	Official Name
107700	1	Silver Lake	Silver Lake

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	Method Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
7/28/2017 12:00	COMPLETE		10012329	Silver Lake - East Basin
7/28/2017 12:30	COMPLETE		113079	Silver Lake West Basin - Deep Hole
8/30/2017 11:30	COMPLETE		10012329	Silver Lake - East Basin
8/30/2017 12:30	COMPLETE		113079	Silver Lake West Basin - Deep Hole
9/27/2017 11:00	COMPLETE		10012329	Silver Lake - East Basin
9/27/2017 11:30	COMPLETE		113079	Silver Lake West Basin - Deep Hole
10/10/2017 11:00	COMPLETE		10012329	Silver Lake - East Basin
10/10/2017 11:30	COMPLETE		113079	Silver Lake West Basin - Deep Hole

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10/25/2017 14:00	COMPLETE		113079	Silver Lake West Basin - Deep Hole
10/25/2017 15:30	COMPLETE		10012329	Silver Lake - East Basin
11/7/2017	COMPLETE		10012329	Silver Lake - East Basin
11/7/2017	COMPLETE		113079	Silver Lake West Basin - Deep Hole
11/30/2017 11:00	COMPLETE		10012329	Silver Lake - East Basin
11/30/2017 11:30	COMPLETE		113079	Silver Lake West Basin - Deep Hole
8/29/2018 12:50	COMPLETE		10012329	Silver Lake - East Basin
4/30/2019 11:00	COMPLETE		10012329	Silver Lake - East Basin

Documents

Title	Description	Author	Published	Comments
2020 Aquatic Plant Management Plan Silver Lake, Columbia County WBIC #107700 [Appendix]	The most recent aquatic plant survey conducted in Silver Lake provided guidance for the development of this plan. This comprehensive survey based on the point-intercept method, was conducted in July 2017; a subsequent survey targeting the non-native curly leaf pondweed (<i>Potamogeton crispus</i>) was conducted in May 2018. Twenty-three aquatic plant species were found in Silver Lake (Table 1), with the greatest diversity located near groundwater inflow areas along the north side of the west basin. Aquatic mosses and filamentous algae were also noted. In 2017, the most common plant species was Eurasian water-milfoil (<i>Myriophyllum spicatum</i>) which occurred at 73% of sites. Coontail (<i>Ceratophyllum demersum</i>) at 41% of sites and largeleaf pondweed (<i>Potamogeton amplifolius</i>) at 39% of sites were also prevalent plant species.		1/1/2020	
2020 Silver Lake Management Plan, Columbia County, Wisconsin	Silver Lake is a 70-acre groundwater drainage lake located within the City of Portage in Columbia County, Wisconsin. Because of its proximity to a city park and the city center, local residents and visitors enjoy it daily throughout the year. It is appreciated by those who use it for its natural beauty, peace and tranquility, wildlife viewing, and recreational opportunities including swimming, fishing, boating, and canoeing/kayaking.	Ryan Haney	1/1/2020	

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Lake Study Report Silver Lake, Portage, Wisconsin WBIC #107700	To understand a lake and its water quality, fish and wildlife, and recreational opportunities, we need to understand its physical characteristics and setting within the surrounding landscape. Silver Lake is located in the city of Portage, with one public boat landing located on the east side of the west basin. Silver Lake is a 74-acre spring lake with groundwater, surface runoff and precipitation contributing most of its water and the water leaving through a wetland complex on the east side of the lake. The maximum depth is 42 feet in the west basin and 16 feet in the east basin; the lakebed has a moderate slope (Figure 1) and its bottom sediments are mostly muck with areas of sand.	R. Haney & P. McGinley	1/1/2019	
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Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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