

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

- Project ID:** CLMN-WaterLev-417400
- Name:** Citizen Water Level Monitoring - Archibald Lake - Oconto County
- Type:** Citizen Lake Monitoring
- Subtype:** Water Level Monitoring
- Status:** ACTIVE
- Start Date:** 1/1/2015
- End Date:** 12/31/2099
- Purpose:** Record low water levels in some areas of Wisconsin affect both the health and recreation of lakes. In some inland lakes, low water levels have stranded nearshore habitat, left piers hundreds of feet from shore and rendered boat landings unusable. To address the growing concern for lake health brought on by drought, changing climate, and groundwater withdrawals, the Wisconsin Department of Natural Resources and the University of Wisconsin-Extension have developed a citizen-based, statewide lake-level monitoring effort.
- Objective:** Citizen volunteers will record lake levels once a week on the same day (e.g. every Monday) at approximately the same time of day under calm conditions. For each monitoring event, a visual reading of the lake level should be recorded on the datasheet and a photograph of the water level on the staff gage should be taken and submitted to the statewide coordinator or uploaded to SWIMS as part of the quality assurance process. Volunteers will enter their field data into the SWIMS database following each survey so that extreme water level changes (> 4/10ft in one week) can be documented as soon as possible. In addition to the water level reading, the bubble levels attached to the staff gage will be checked to verify that the staff gage has not shifted since the previous monitoring activity.
- Comments:**
- Outcome:** Citizen volunteers lake level measurements by visually reading a staff gage, which is scale (made out of enameled steel and marked in feet and tenths) placed in the lake bed to show the elevation of the water surface. The staff gage is calibrated by referencing the numbered height on the gage to the surveyed elevation of the water surface at the time of installation (Harrelson et al., 1994). Volunteers will also enter their lake level data into the Surface Water Integrated Monitoring System (SWIMS) database. Trained professionals will install the staff gage and perform all surveys (following installation, mid-season, and at removal) of the staff gage. They will also be responsible for removing the gage and entering all survey data into SWIMS each year.
- Study Design:**
- QA Measures:**

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Counihan, Tim	TEAM_MEMBER	ACTIVE	8/19/2015			
HEIN, CATHERINE L	PROJECT_LEAD	COMPLETE	8/19/2015	8/14/2024	Wisconsin DNR	
Nordin, Brenda L	COORDINATOR	ACTIVE	9/26/2017		Wisconsin DNR	
ZALAY, BRIAN D	COORDINATOR	COMPLETE	1/1/2015	10/12/2021	Wisconsin DNR	
Zalay, Brian D	COORDINATOR	INACTIVE	1/1/2015	11/12/2019		

Project Statuses

Date	Reported By	Status	Comments
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Actions

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Action	Detailed Description	Start Date	End Date	Status
Monitor Water Level	Wisconsin Department of Natural Resources and the University of Wisconsin-Extension have developed a citizen-based, statewide lake-level monitoring effort.	1/1/2015	12/31/2099	IN_PROGRESS

Monitoring Stations

Station ID	Name	Comments
10044038	Archibald Lake - Staff Gage	
10044947	Archibald Lake - Staff Gauge - Moved	

Assessment Units

WBIC	Segment	Local Name	Official Name
417400	1	Archibald Lake	Archibald Lake

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
WATER_LEV2016	Water Level Monitoring Data Sheet

Methods

Method Code	Method Description
WATER_LEVEL_MONITORING_CITIZEN	Water Level Monitoring Citizen 2016

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
8/26/2015 10:00	COMPLETE		10044038	Archibald Lake - Staff Gage
8/29/2015 10:00	COMPLETE		10044038	Archibald Lake - Staff Gage
9/5/2015 10:00	COMPLETE		10044038	Archibald Lake - Staff Gage
9/7/2015 10:00	COMPLETE		10044038	Archibald Lake - Staff Gage
9/12/2015 10:00	COMPLETE		10044038	Archibald Lake - Staff Gage
9/20/2015 8:00	COMPLETE		10044038	Archibald Lake - Staff Gage
9/26/2015 8:00	COMPLETE		10044038	Archibald Lake - Staff Gage
10/3/2015 8:00	COMPLETE		10044038	Archibald Lake - Staff Gage
10/10/2015 8:00	COMPLETE		10044038	Archibald Lake - Staff Gage
10/17/2015 10:00	COMPLETE		10044038	Archibald Lake - Staff Gage
10/24/2015 11:00	COMPLETE		10044038	Archibald Lake - Staff Gage
10/31/2015 14:00	COMPLETE		10044038	Archibald Lake - Staff Gage

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11/7/2015 8:00	COMPLETE		10044038	Archibald Lake - Staff Gage
5/1/2016 10:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
5/8/2016 8:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
5/15/2016 10:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
5/22/2016 8:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
5/29/2016 9:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
6/4/2016 11:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
6/5/2016 11:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
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8/21/2016 16:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
8/28/2016 4:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
9/4/2016 16:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
9/11/2016 8:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
9/25/2016 8:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
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11/6/2016 9:00	COMPLETE		10044947	Archibald Lake - Staff Gauge - Moved
5/16/2017 16:00	COMPLETE		10044038	Archibald Lake - Staff Gage
5/19/2017 10:00	COMPLETE		10044038	Archibald Lake - Staff Gage
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8/20/2017 10:00	COMPLETE		10044038	Archibald Lake - Staff Gage
8/27/2017 16:00	COMPLETE		10044038	Archibald Lake - Staff Gage
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7/2/2023 16:00	COMPLETE		10044038	Archibald Lake - Staff Gage
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Documents

Title	Description	Author	Published	Comments
Archibald Lake - Oconto County Photo			1/1/2016	

Budget

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Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding					
Organization	Source	Type	Amount	Start Date	End Date