

# Wisconsin Department of Natural Resources SWIMS Project Summary

## General Project Information

**Project ID:** CBSM-223289

**Name:** Castle Rock Creek at Church Rd

**Type:** Citizen Based Stream Monitoring

**Subtype:** Volunteer Monitoring

**Status:** ACTIVE

**Start Date:** 4/1/2012

**End Date:** 12/31/2099

**Purpose:** The Water Action Volunteers Program (WAV) involves citizen monitors in the collection of stream water quality data that may be used by the Wisconsin Department of Natural Resources (DNR) and their partner organizations. Program goals include building relationships between DNR staff and citizen monitors while assessing streams in need of additional monitoring, restoration, and/or protection. Ultimately, volunteer participation increases capabilities of the DNR and communities to monitor streams, providing water quality information that may be used to make decisions that affect the management of streams throughout Wisconsin.

**Objective:** The main goal of the WAV program is to preserve and protect Wisconsin's streams and the lakes to which they are connected. Objectives of the program are to educate and empower citizens to share their data, to obtain high quality data useful for DNR decision-making, and to encourage data and knowledge sharing. The process of data collection by Wisconsin residents enhances their understanding of water quality parameters, and in many cases, interests them in assisting with more sophisticated projects, including the collection of additional biological, chemical, and physical site data. Ultimately, a goal is that DNR staff trust volunteer data results, and therefore utilize WAV data to assist in making management decisions.

**Comments:**

**Outcome:** The Level 2 stream monitoring sampling plan is consistent with statewide baseline monitoring guidelines laid out in the DNR's Water Resources Monitoring Strategy for Wisconsin. • DNR or county staff recommends sites that could be useful to have monitored based on needs to acquire status or trends information, or other types of monitoring that is priority. • Volunteers are asked to monitor, at least, from May through September • Volunteers choose primary (P) and secondary (S) sampling dates in advance and note on their data sheets on which of those dates they monitored. Volunteers are asked to sample on the primary date unless there are safety concerns about being at the stream site (e.g., tornado, lightning, dangerously high flows) or a family emergency. • The goal is to monitor at the same time each month, preferably 30 days apart from the last monitoring visit. • Volunteers are instructed to enter data by the end of each month. Parameters Measured: • Dissolved oxygen (concentration) • Dissolved oxygen (saturation) • Transparency • Temperature (instantaneous and continuous measurements) • pH.

**Study Design:** Volunteer stream monitors assess water quality parameters identified in the DNR's Water Resources Monitoring Strategy for Wisconsin. Volunteers may identify their own sampling locations. In some instances, WAV Coordinators, DNR, or county staff may recommend sites based on the need to acquire status or trends information, or other types of monitoring that are priorities. In general, volunteers are asked to monitor from May through October. Advanced volunteers choose primary (P) and secondary (S) sampling dates in advance and note on their data sheets which of those dates they monitored. Volunteers are asked to sample on the primary date unless there are safety concerns about being at the stream site (e.g., tornado, lightning, dangerously high flows) or a personal or family emergency. The goal is to monitor at the same time each month, about 30 days after the last monitoring visit. Volunteers are instructed to enter data into the Surface Water Integrated Monitoring System (SWIMS) database by the end of each month and to immediately report extreme conditions that may be hazardous to aquatic life to their local DNR or County biologist. Parameters measured monthly include: dissolved oxygen (concentration), dissolved oxygen (saturation), streamflow, transparency, temperature (instantaneous and/or continuous measurements), and sometimes pH. In addition, macroinvertebrates (Biotic Index) are assessed twice per year and habitat conditions are assessed once per year. Some volunteers monitor specific conductance, chloride, total phosphorus, E. coli, or other parameters.

**QA Measures:** For advanced volunteers, a WAV staff person, local coordinator or authorized representative visits with 10% of volunteers annually to conduct side-by-side monitoring. The goal of field QA checks is to check that volunteers are properly calibrating their meters (if used) and following the sampling methods correctly. Staff members conducting QA checks also ensure that equipment is functioning properly and answer any volunteer questions or concerns. A Data Manager runs regular (monthly whenever possible) database queries throughout the field season to evaluate the quality of data entered into the database and follow-up with volunteers to address anomalies that are identified.

## People

## Wisconsin Department of Natural Resources SWIMS Project Summary

Name	Role	Status	Start Date	End Date	Organization	Comments
Krier, Dave	COORDINATOR	ACTIVE	8/6/2018		Valley Stewardship Network	
Leonard, Katya	COORDINATOR	INACTIVE	9/28/2012	1/1/2013	Valley Stewardship Network	
Ramsay, Vicki	COORDINATOR	ACTIVE	1/21/2014	8/6/2018	Valley Stewardship Network	
Van den Bosch, Maureen	TEAM_MEMBER	ACTIVE	9/28/2012		Valley Stewardship Network	

### Project Statuses

Date	Reported By	Status	Comments
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### Actions

Action	Detailed Description	Start Date	End Date	Status
Citizen-Based Stream Monitoring	Collect chemical, physical, and/or biological water quality data to assess the current overall stream health. The data can inform management decisions and may be used to identify impaired waters for biennial lists.	4/1/2012	12/31/2099	IN_PROGRESS

### Monitoring Stations

Station ID	Name	Comments
223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth	

### Assessment Units

WBIC	Segment	Local Name	Official Name
1211300	2	Fennimore Fork (Castle Rock)	Castle Rock Creek
1211300	3	Fennimore Fork (Castle Rock)	Castle Rock Creek

### Lab Account Codes

Account Code	Description	Start Date	End Date
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### Forms

Form Code	Form Name
WAV_2015	WAV Stream Monitoring 2015

### Methods

Method Code	Method Description
CBSM_FIELD_METHODS_STRE AM_CHEMISTRY	CBSM Field Methods for Stream Monitoring 2010

### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
5/28/2012 9:00	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth

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6/29/2012 10:30	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth
7/30/2012 11:30	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth
8/30/2012 11:15	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth
9/28/2012 12:00	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth
5/17/2013 13:15	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth
7/4/2013 11:30	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth
10/3/2013 12:00	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth
5/20/2014 12:00	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth
6/17/2014 9:00	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth
7/15/2014 10:00	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth
8/19/2014 9:45	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth
9/16/2014 9:30	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth
10/13/2014 10:00	COMPLETE		223289	Castle Rock Creek (at Church Rd)- 50 M Upstream From Mouth

### Documents

Title	Description	Author	Published	Comments
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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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