

Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: LPL-1004-05

Name: SPIRIT RESERVOIR ASSOCIATION: Spirit Reservoir Water Quality Assessment, Phase III

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 4/1/2005

End Date: 12/31/2006

Purpose: The Spirit Reservoir Association will sponsor Phase III of the Water Quality Assessment Project in cooperation with UWSP (Nancy Turyk and students). Phase III includes a macrophyte survey, algal assessment and development of a final report and presentation. The macrophyte survey of Spirit Reservoir will be conducted using the WI-DNR point-intercept method to determine species present, distribution, and invasive species presence/absence. A phytoplankton assessment will be performed by taking volumetric samples and plankton tows at the mid-lake chemistry point and the "hot spot" of nuisance algae blooms and periphyton scrapes and grab samples near the boat landing and at the "hot spot." All algal samples will be collected seven times during the growing season (spring turnover, fall turnover and five evenly spaced times in between). In lab algal analysis will result in a taxonomic list of all species per site and date, as well as dominant species per sample.

The results of the macrophyte and phytoplankton surveys will be compiled with data collected during phases I and II to produce a final report describing the water quality and physical characteristics of Spirit Reservoir, a water and nutrient budget, interpretation of the data, and management recommendations. The final Spirit Reservoir Report will be disseminated to the appropriate management units, local libraries and will be presented at a citizen-oriented meeting.

Products: 1. Collect, map and analyze macrophyte survey data. 2. Sets of voucher specimens from the macrophyte survey given to the DNR/Herbarium and Spirit Reservoir Association. 3. Collect and analyze algal samples. 4. Complete final reports - Written and electronic disseminated to DNR, Lincoln County, WVIC and local libraries. 5. Present final results at local meeting hosted by Spirit Reservoir Association.

Objective:

Comments: Grantee is SPIRIT RESERVOIR ASSOCIATION

Outcome:

Study Design:

QA Measures:

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
Spirit Reservoir Association,	GRANT_RECIPIENT	ACTIVE	4/1/2005	12/31/2006	Spirit Reservoir Association	

Project Statuses			
Date	Reported By	Status	Comments

Actions				
Action	Detailed Description	Start Date	End Date	Status
Aquatic Plant Monitoring or Survey		4/1/2005	12/31/2006	PROPOSED
Project Deliverable	Final Report	4/1/2005	12/31/2006	PROPOSED

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Grant Awarded	<p>The Spirit Reservoir Association will sponsor Phase III of the Water Quality Assessment Project in cooperation with UWSP (Nancy Turyk and students). Phase III includes a macrophyte survey, algal assessment and development of a final report and presentation. The macrophyte survey of Spirit Reservoir will be conducted using the WI-DNR point-intercept method to determine species present, distribution, and invasive species presence/absence. A phytoplankton assessment will be performed by taking volumetric samples and plankton tows at the mid-lake chemistry point and the "hot spot" of nuisance algae blooms and periphyton scrapes and grab samples near the boat landing and at the "hot spot." All algal samples will be collected seven times during the growing season (spring turnover, fall turnover and five evenly spaced times in between). In lab algal analysis will result in a taxonomic list of all species per site and date, as well as dominant species per sample.</p> <p>The results of the macrophyte and phytoplankton surveys will be compiled with data collected during phases I and II to produce a final report describing the water quality and physical characteristics of Spirit Reservoir, a water and nutrient budget, interpretation of the data, and management recommendations. The final Spirit Reservoir Report will be disseminated to the appropriate management units, local libraries and will be presented at a citizen-oriented meeting.</p> <p>Products: 1. Collect, map and analyze macrophyte survey data. 2. Sets of voucher specimens from the macrophyte survey given to the DNR/Herbarium and Spirit Reservoir Association. 3. Collect and analyze algal samples. 4. Complete final reports - Written and electronic disseminated to DNR, Lincoln County, WVIC and local libraries. 5. Present final results at local meeting hosted by Spirit Reservoir Association.</p>	4/1/2005		COMPLETE
Information and Education		4/1/2005	12/31/2006	PROPOSED
Informational Meetings		4/1/2005	12/31/2006	PROPOSED
Lakes Planning Grant		4/1/2005	12/31/2006	PROPOSED

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
1506500	1	Spirit River	Spirit River
1506800	1	Spirit River Flowage	Spirit River Flowage

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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
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Documents

Title	Description	Author	Published	Comments
SPIRIT RESERVOIR WATER QUALITY ASSESSMENT NORTHERN WISCONSIN	Lakes Planning Report	N. Turyk, P. McGinley, R. Bell,M. Breunig, And J. Barrick	12/31/2006	

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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