

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPL-052 (4017-01)
Name: CLOVER LEAF LAKES PROTECTIVE ASSOCIATION: Round Lake Management Planning
Type: Lakes Grant
Subtype: Large Scale Lake Planning
Status: COMPLETE
Start Date: 04/02/1991
End Date: 06/30/1993
Purpose: 1) Review existing data on lake and watershed to define data gaps and assess data gathering needs. 2) Initiate public involvement/information by workshops, public meetings, newsletters, fact sheet, and local media.3) Conduct water quality monitoring at one site as described in the application. 4) Collect and analyze one winter sample for phosphorus, total Kjeldahl nitrogen, NO3-NO2, and ammonia nitrogen.5) Conduct a macrophyte survey as described in application. 6) Prepare base map of lake and watershed containing land use information including soil disturbing land uses, nonpoint pollution problems, and environmentally sensitive areas.7) Include in final lake management plan summary of data gathered, public involvement activities, aquatic plant survey, base and land use maps, and management recommendations.

Objective:
Comments:
Outcome:
Study Design:
QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Cloverleaf Lakes Protective A	GRANT_RECIP	ACTIVE	04/02/1991	06/30/1993	Cloverleaf Lakes Protective Association	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start	End Date	Status
Informational Meetings	10100515	04/02/1991		PROPOSED
Data analysis, report production	10100515	04/02/1991		PROPOSED
Hold Workshops	10100515	04/02/1991		PROPOSED
Aquatic Plant Monitoring or Survey		04/02/1991	06/30/1993	PROPOSED
Watershed Mapping or Assessment	10100515	04/02/1991		PROPOSED
Monitor Water Quality or Sediment	10100515	04/02/1991		PROPOSED
Develop/Distribute Newsletter	10100515	04/02/1991		PROPOSED

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Action	Detailed Description	Start	End Date	Status
Grant Awarded	1) Review existing data on lake and watershed to define data gaps and assess data gathering needs. 2) Initiate public involvement/information by workshops, public meetings, newsletters, fact sheet, and local media.3) Conduct water quality monitoring at one site as described in the application. 4) Collect and analyze one winter sample for phosphorus, total Kjeldahl nitrogen, NO3-NO2, and ammonia nitrogen.5) Conduct a macrophyte survey as described in application. 6) Prepare base map of lake and watershed containing land use information including soil disturbing land uses, nonpoint pollution problems, and environmentally sensitive areas.7) Include in final lake management plan summary of data gathered, public involvement activities, aquatic plant survey, base and land use maps, and management recommendations.	04/02/1991		COMPLETE
Lake Management Plan Development		04/02/1991	06/30/1993	PROPOSED

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
299300	1	Round Lake (Cloverleaf Chain)	Round 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	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
Lake Management Plan - Round Lake - Shawano County, Wisconsin	Round Lake, Shawano County, is the upper, smallest and deepest (on average) lake of a three lake "chain" known as the Cloverleaf Lakes. Groundwater is a primary source of inflow to the chain. This, combined with a primarily wooded watershed for the chain, results in a relatively low potential for sediment and nutrient input. Because of its small size,	IPS Environmental Services	06/30/1992	

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Title	Description	Author	Published	Comments
	<p>somewhat restricted access, and "no wake" speed limit, this lake receives comparatively lower use than the other lakes (Grass and Pine) in the chain. Water quality was fair to good for all parameters measured; transparency, nutrients and chlorophyll -- indicated a mesotrophic status. The lake stratified during summer and exhibited high nutrient levels and near-anoxic conditions below the thermocline. Event samples collected on the north shore of the lake showed significantly higher (than in-lake) nutrient (and probably sediment) input to Round Lake. Macrophyte growth is restricted to a narrow littoral zone which makes up only 10% of the lake area and appears to benefit the fishery resource through forage production. A predominantly softer (muck) substrate may cause compositional differences from those macrophyte assemblages observed in Grass and Pine Lakes. Overall management objectives for Round Lake should emphasize protection and improvement/enhancement of existing good water and high aesthetic quality.</p>			

Budget

Combined Budgets:
Combined SLOH:
Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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