

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPL-180
Name: DEER LAKE IMPROVEMENT ASSOCIATION: Deer Lake Water Quality Study
Type: Lakes Grant
Subtype: Large Scale Lake Planning
Status: COMPLETE
Start Date: 09/09/1993
End Date: 06/30/1995
Purpose: Develop hydraulic and nutrient budgets for the lake. Define nutrient export rates for the five small tributary watersheds. Determine in-lake water quality conditions during the winter and spring. Information will be disseminated to the public by newsletter, local newspaper articles, public meetings, summary report mailing, and the final report. Project results will be reposted at Barr, Land Conservation Office, WDNR offices, and local library.
Objective:
Comments:
Outcome:
Study Design:
QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Deer Lake Improvement Assc	GRANT_RECIPII	ACTIVE	09/09/1993	06/30/1995	Deer Lake Improvement Association	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start	End Date	Status
Hydrologic Budget Development		04/16/1992		COMPLETE
Develop/Distribute Newsletter		04/16/1992		PROPOSED
Grant Awarded	Develop hydraulic and nutrient budgets for the lake. Define nutrient export rates for the five small tributary watersheds. Determine in-lake water quality conditions during the winter and spring. Information will be disseminated to the public by newsletter, local newspaper articles, public meetings, summary report mailing, and the final report. Project results will be reposted at Barr, Land Conservation Office, WDNR offices, and local library.	09/09/1993		COMPLETE
Monitor Water Quality or Sediment Nutrient Budget Development		09/09/1993	06/30/1995	COMPLETE
Issue News/Media Release	Distributed information on Lake Planning Grant via. Media	09/09/1993		PROPOSED
Informational Meetings		09/09/1993	06/30/1995	PROPOSED

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
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WBIC	Segment	Local Name	Official Name
2619400	1	Deer Lake	Deer Lake
2619500	1	Rock Creek	Rock Creek

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
Deer Lake Planning Grant II Report - Polk County, Wisconsin	The study described by this report was initiated by the Deer Lake Improvement Association for the purpose of providing information to water resource managers and citizens regarding the management of Deer Lake. The study resulted in determining that Deer lake is a mesotrophic to slightly eutrophic lake, which experiences degraded water quality in the fall due to internal loads of phosphorus. Hydrologic budgets constructed from study data indicate that the lake is strongly influenced by groundwater inflows during d ~ pyer iods and by watershed inflows during wet periods (such as in 1994). The lake is at a trophic level where it is very sensitive to even slight increases in nutrient loads. The sources of nutrients which represent the greatest potential for degrading Deer Lake's water quality are the Lake's urban and agricultural watersheds. Water quality monitoring conducted on the stormwater and snowmelt runoff indicates that some tributaries are experiencing degraded water quality, likely due to agricultural sources. Management recommendations include participation in the Priority Watershed Project and additional lake planning grant studies to assist the Priority Watershed Management Team. These efforts should focus on better quantifying and subsequently reducing the nutrient loadings from Watershed 1 as well as providing erosion protection andlor stabilization of Deer Lake's tributary streambanks.	Barr Engineering	01/31/1995	

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Budget

Combined Budgets:

Combined SLOH:

Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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