

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** LPL-037 (1019-01)  
**Name:** TWIN LAKES P & R DISTRICT: Mary Lake Watershed Assessment & Lake Management Plan  
**Type:** Lakes Grant  
**Subtype:** Large Scale Lake Planning  
**Status:** COMPLETE  
**Start Date:** 04/01/1991  
**End Date:** 06/30/1993  
**Purpose:** NEEDS ASSESSMENT SURVEY OF ALL HOUSEHOLDS. LAND USE PRACTICES IN WATERSHED WILL BE MAPPED. NUTRIENT BUDGET WILL BE PREPARED USING AREAL LOADING METHOD. APPROPRIATE PHOSPHORUS LOADING MODEL WILL BE USED ALONG WITH THE NUTRIENT BUDGET DEVELOPED FOR THE LAKE. GROUNDWATER INFLOWS CALCULATED. WATER QUALITY MONITORING. CONDUCT AQUATIC PLANT SURVEY. UNDERWATER VIDEO TO DETERMINE STATUS OF AQUATIC MACROPHYTES AND FISH HABITAT. AERIAL PHOTOGRAPHS. TWO NEWSLETTERS WILL BE PRODUCED. DRAFTING OF LAKE MANAGEMENT PLAN.  
**Objective:**  
**Comments:** Grantee is TWIN LAKES P & R DISTRICT  
**Outcome:**  
**Study Design:**  
**QA Measures:**

### People

| Name                       | Role          | Status | Start Date | End Date   | Organization              | Comments |
|----------------------------|---------------|--------|------------|------------|---------------------------|----------|
| Twin Lakes P & R District, | GRANT_RECIPII | ACTIVE | 04/01/1991 | 06/30/1993 | Twin Lakes P & R District |          |

### Project Statuses

| Date | Reported By | Status | Comments |
|------|-------------|--------|----------|
|------|-------------|--------|----------|

### Actions

| Action                              | Detailed Description   | Start      | End Date | Status   |
|-------------------------------------|--|------------|----------|----------|
| Social Survey of Residents or Users | 10100504   | 04/01/1991 |          | PROPOSED |
| Lake Management Plan Development    | 10100504   | 04/01/1991 |          | PROPOSED |
| Nutrient Budget Development         | 10100504   | 04/01/1991 |          | PROPOSED |
| Grant Awarded                       | Needs assessment survey of all households. Land use practices in watershed will be mapped. Nutrient budget will be prepared using areal loading method. Appropriate phosphorus loading model will be used along with the nutrient budget developed for the lake. Groundwater inflows calculated. Water quality monitoring. Conduct aquatic plant survey. Underwater video to determine status of aquatic macrophytes and fish habitat. Aerial photographs. Two newsletters will be produced. Drafting of Lake management plan. | 04/01/1991 |          | COMPLETE |
| Watershed Mapping or Assessment     | 10100504   | 04/01/1991 |          | PROPOSED |
| Water Quality Modeling              | 10100504   | 04/01/1991 |          | PROPOSED |

### Monitoring Stations

| Station ID | Name | Comments |
|------------|------|----------|
|------------|------|----------|

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### Assessment Units

| WBIC   | Segment | Local Name | Official Name |
|--------|---------|------------|---------------|
| 743000 | 1       | Marie Lake | Lake Mary     |

### Lab Account Codes

| Account Code | Description | Start Date | End Date |
|--------------|-------------|------------|----------|
|--------------|-------------|------------|----------|

### Forms

| Form Code | Form Name |
|-----------|-----------|
|-----------|-----------|

### Methods

| Method Code | Description |
|-------------|-------------|
|-------------|-------------|

### Fieldwork Events

| Start Date | Status | Field ID | Station ID | Station Name |
|------------|--------|----------|------------|--------------|
|------------|--------|----------|------------|--------------|

### Documents

| Title  | Description  | Author          | Published  | Comments |
|--|--|-----------------|------------|----------|
| Lake Management Plan - Twin Lakes Protective and Rehabilitation District | The purpose of the plan is to address concerns of the District regarding water quality, lake use, and land uses within the watershed. The lake management planning process has been undertaken concurrently with the preparation of a Master Plan for the Village of Twin Lakes, whose boundaries are coterminous with the District boundaries. Discovery Group, Ltd. has been the consultant to the Village of Twin lakes for the preparation of the Master Plan. | Grant Recipient | 06/30/1993 |          |

### Budget

Combined Budgets:  
 Combined SLOH:  
 Combined Total:

### Funding

| Organization | Source | Type | Amount | Start Date | End Date |
|--------------|--------|------|--------|------------|----------|
|--------------|--------|------|--------|------------|----------|