Lake Status

Overall Strategy: Focused Watershed Management 2010-2013

Water Quality Rating: C: Secchi – 5.9 ft; TP – 41 µg/L

Impairment: Not Impaired

Water Quality Trend: Secchi & TP – No Trend

Shoreland Classification: Natural Environment

Subwatershed Land Cover: 41% developed, 10% forests and woodlands, 4% grassland/shrubland/sparse vegetation, 7% lakes and open water wetlands, 20% planted or cultivated, 18% wetlands.

Resource Goals

Short Term Goals – Year 2015

- Maintain a water quality rating of at least B.
- Maintain a five-year mean summer phosphorus concentration at or below 40 µg/L ± 4%.
- Maintain a mean summer secchi depth no less than 6 ft.
- Encourage the Lake Association to team with the District on lake management and education issues.
- Revise goals based on the focused watershed management efforts.

Long Range Goals - Year 2020

- Maintain a water quality rating of B.
- Maintain a five-year mean summer phosphorus concentration at or below 40 µg/L ± 4%.
- Maintain a mean summer secchi depth no less than 6 ft.
- Revise goals based on the focused watershed management efforts.
- Consider the area's importance to the Blanding's turtle.

DNR Fisheries Lake Management Plan (1984)

- Long Range Goal: Intensive management of walleye-yellow perch complex with large sized individuals sustaining 100 man-hours per acre sport fishing.
- Operational Plan:
  - Annual aerial fish house counts.
  - Winter oxygen monitoring.
- Mid Range Objective: Public access.
- Potential Plan:
  - Install an aeration system.
  - Chemical rehabilitation of Sand and Hay lakes.
  - Public access with 3 to 4 car/trailer unit parking places.

BASIC FACTS

DNR ID	82006700
Section	26
Township	32
Range	20
Lake Area	45 acres
Subwatershed Area	866 acres
Outlet Elevation	N/A
Low Water Level	959.32 ('05)
High Water Level	964.56 ('02)
Ordinary High Water	963.2
100-Yr. Flood Elev	N/A
Greatest Depth	18 ft.

Control Structures:
N/A

Fish Species:
Bluegill, Golden Shiner, Hybrid Sunfish, Pumpkinseed Sunfish (1992)

Aquatic Nuisance Species:
None

CMSCWD References:
WCD Water Monitoring Report ('08)

DNR Lake Water Level Report

DNR Lake Information Report

CMSCWD TMDL Phase I Report ('08)

Implementation

Operational Priorities

- Focused Watershed Management 2010-2013
- Routine Watershed Management all other years

Education

- Focused Watershed Education Program 2010-2013
- Routine Watershed Education Program all other years

Regulatory

Activities impacting Sand Lake will be regulated by the watershed district through its *Rules of the District*. Regulatory efforts will be coordinated with Scandia, Washington County and the Minnesota DNR, where applicable.

Projects

Current:

Focused Watershed Management 2010-2013:

- Clean Water Partnership – Sand and Long Lake Diagnostic Study, activities include:
  - In-Lake + Watershed Assessments
  - In-Lake + Watershed Modeling
  - Stakeholder Input + Goal Setting
  - Diagnostic Study Report
  - Implementation Plan
- CWP Implementation Projects
- Focused Watershed Water Quality Monitoring
- Focused Watershed Best Management Practices (BMP) Program
- Permitting Program

Future/Potential:

- Implement projects identified during the 2010-2013 Focused Management effort

* See ***2010 Watershed Management Plan* Section V, *Lake Management Plans*** for additional information on District lake management activities.

Overall Assessment: Sand Lake

Sand Lake watershed is located in the City of Scandia and is downstream of Hay Lake ultimately discharging to the St. Croix River. Sand Lake does not typically outlet but has occasionally in the past. Sand Lake watershed is currently dominated by undeveloped, single family residential and agricultural land uses. Areas of commercial, park, multi-family residential and institutional land uses occur in and around Scandia's village center. Sand Lake does not have public access and the majority of the shoreland is in private ownership. 2020 land use shows the majority of the watershed converting to rural or large-lot residential land use. As land use in the watershed converts to rural or large lot residential and multi-optional development, the amount of impervious surface will increase.

The Lower St. Croix River Spring Creek Stewardship Plan was completed in 2003 and included a watershed fact sheet for the Mill Stream watershed, including Sand Lake.

Although the lake is currently identified on the MPCA list of impaired waters due to excess nutrients and was included in the *CMSCWD Lakes TMDL Phase I Study* it is currently being considered for delisting by the MPCA. Over the next three years Sand Lake will undergo focused watershed management, building on the work completed during Phase I of the TMDL Study in an effort to protect and improve the quality of the resource.