



Minnesota Pollution Control Agency

520 Lafayette Road
St. Paul, MN 55155-4194

Long Lake, Wright County

National Lake Assessment Project (NLAP)

Sample Date: June 26, 2007

Minnesota Lake ID: 86-0069

Area: 88 acres

Watershed Area: 2,056 acres

Ecoregion: North Central Hardwoods Forests (NCHF)

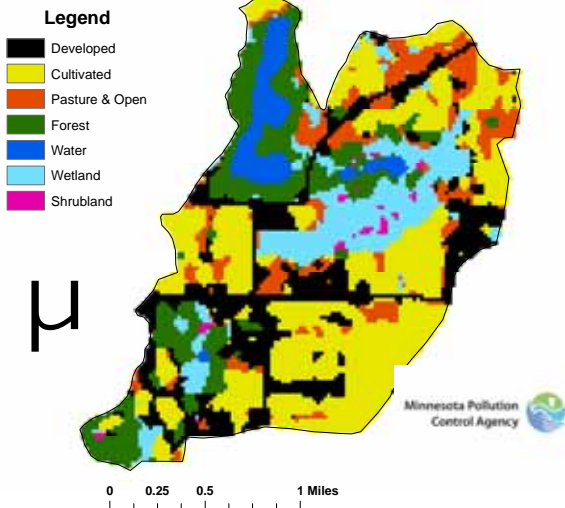
NLAP ID: 0743

Maximum Depth: 30 ft

Mean Depth: 20 ft



Long Lake Land Use
Wright County



Land Use	Long Lake Land Use %	NCHF Typical Land Use %
Developed	14	2-9
Cultivated (Ag)	43	22-50
Pasture & Open	10	11-25
Forest	16	6-25
Water & Wetland	17	14-30
Feedlots (#)	1	

Minnesota 2000 Level 1 Landsat Landcover Classification.img University of Minnesota Remote and Geospatial Analysis Lab. Minnesota DNR: Minnesota Hydrologic Units-Sheds (polygons) 1998-2004.

Long Lake 2007 as compared to typical range for NCHF ecoregion reference lakes. Single NLAP visit based on U.S. Environmental Protection Agency protocol as compared to typical range for summer-means.

Data from Minnesota Department of Health (MDH) laboratory.

Parameter	Long Lake (MDH)	NCHF
Number of reference lakes	1	43
Total Phosphorus (µg/L)	22	23 - 50
Chlorophyll-a (µg/L)	5	5 - 22
Secchi Disk (feet)	7.22	4.9 - 10.5
(meters)	2.2	(1.5 - 3.2)
Total Kjeldahl Nitrogen (mg/L)	0.79	< 0.60 - 1.2
Alkalinity (mg/L)	200	75 - 150
Color (Pt-Co U)	20	10 - 20
pH (SU)	7.9	8.6 - 8.8
Chloride (mg/L)	11	4 - 10
Total Suspended Solids (mg/L)	6.4	2 - 6
Total Suspended Inorganic Solids (mg/L)	3.6	1 - 2
Conductivity (umhos/cm)	425	300 - 400
TN:TP ratio	36:1	25:1 - 35:1
Microcystin(µg/L)	Near Shore	<10 Low Risk
WHO risk Category*	Index Site <0.15	10-20 Moderate Risk 20- 200 High Risk

* Guidelines for safe recreational water environments (World Health Organization, 2003)

µg/L = micrograms per liter
 mg/L = milligrams per liter
 umhos/cm = micromhos per centimeter

Pt-Co-U = Platinum Cobalt Units
 SU = Standard Units

Mixing Status: thermally stratified (dimictic)

Temperature and Dissolved Oxygen Profile for Long Lake (Wright Co.). June 26, 2007. Temp (C) and DO (mg/L)

