



# Minnesota Pollution Control Agency

520 Lafayette Road  
St. Paul, MN 55155-4194

# Lake Nokomis, Hennepin County

National Lake Assessment Project (NLAP)

Sample Date: June 27, 2007

**Minnesota Lake ID:** 27-0019

**Area:** 199 acres

**Watershed Area:** 11,078 acres

**Ecoregion:** North Central Hardwoods Forests (NCHF)

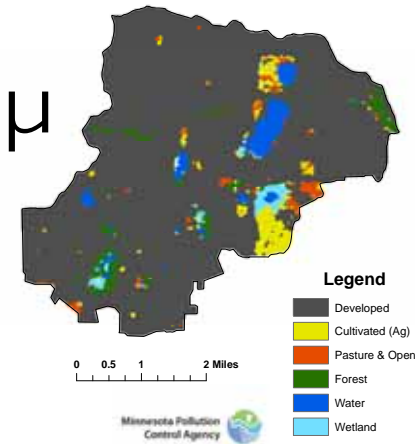
**NLAP ID:** 0679

**Maximum Depth:** 33 ft

**Mean Depth:** 15 ft



Lake Nokomis Land Use  
Hennepin County



Minnesota 2000 Level 1 Landsat Landcover  
Classification.img

University of Minnesota Remote & Geospatial Analysis Lab

Land Use	Lake Nokomis Land Use %	NCHF Typical Land Use %
Developed	87	2-9
Cultivated (Ag)	3	22-50
Pasture & Open	2	11-25
Forest	3	6-25
Water & Wetland	5	14-30
Feedlots (#)	0	

**Lake Nokomis 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	Nokomis (MDH)	NCHF
Number of reference lakes	1	43
Total Phosphorus (µg/L)	43	23 - 50
Chlorophyll mean (µg/L)	9.35	5 - 22
Secchi Disk (feet)	7.38	4.9 - 10.5
(meters)	2.25	(1.5 - 3.2)
Total Kjeldahl Nitrogen (mg/L)	0.91	< 0.60 - 1.2
Alkalinity (mg/L)	130	75 - 150
Color (Pt-Co U)	10	10 - 20
pH (SU)	8.3	8.6 - 8.8
Chloride (mg/L)	79	4 - 10
Total Suspended Solids (mg/L)	4	2 - 6
Total Suspended Inorganic Solids (mg/L)	1.6	1 - 2
Conductivity (umhos/cm)	509	300 - 400
TN:TP ratio	21:1	25:1 - 35:1
Microcystin(µg/L)		<10 Low Risk
WHO risk Category*	Near Shore: 0.6 Index Site: 0.5	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: mixed with no temperature layer (polymictic)**

**Temperature and Dissolved Oxygen Profile for Lake Nokomis. June 27, 2007.**  
 Temp (C) and DO (mg/L)

