Minnesota Pollution Control Agency
520 Lafayette Road
St. Paul, MN 55155-4194

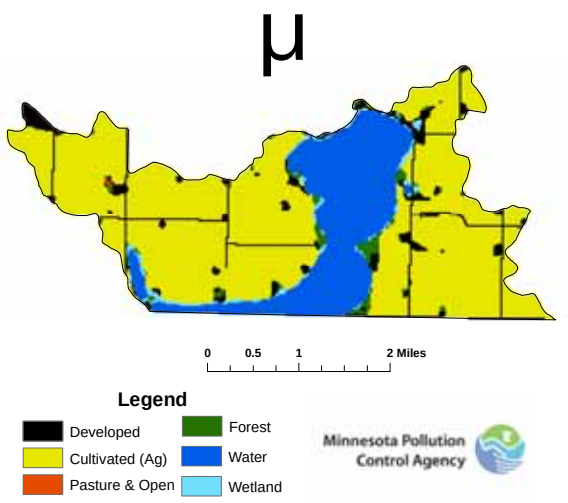
Lake Okamanpeedan, Martin County

National Lake Assessment Project (NLAP)
Sample Date: August 7, 2007

Minnesota Lake ID: 46-0051
Area: 2,195 acres
Watershed Area: 5,870* acres
Ecoregion: Western Cornbelt Plains (WCBP)

NLAP ID: 0759
Maximum Depth: 6.5 ft
Mean Depth: 4 ft

Lake Okamanpeedan Land Use*



Minnesota 2000 Level 1 Landsat Landcover Classification.img
Minnesota Remote & Geospatial Analysis Lab

Land Use*	Lake Okamanpeedon Land Use %	WCBP Typical Land Use %
Developed	7	0 – 16
Cultivated (Ag)	67	42 – 75
Pasture & Open	<1	0 – 7
Forest	2	0 – 15
Water & Wetland	24	3 - 26
Feedlots (#)	2	

* Info represents Minnesota only and excludes watershed & land use area in Iowa

Lake Okamanpeedon 2007 as compared to typical range for WCBP 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	Lake Okamanpeedon (MDH)	WCBP
Number of reference lakes	1	16
Total Phosphorus (µg/L)	383	65 – 150
Chlorophyll-a (µg/L)	313	30 – 80
Secchi Disk (feet) (meters)	0.3 0.1	1.6 – 3.3 0.5 – 1.0
Total Kjeldahl Nitrogen (mg/L)	04.8	1.3 – 2.7
Alkalinity (mg/L)	140	125 – 165
Color (Pt-Co U)	30	15 – 25
pH (SU)		8.2 – 9.0
Chloride (mg/L)	33	13 – 22
Total Suspended Solids (mg/L)	64	7 – 18
Total Suspended Inorganic Solids (mg/L)	19	3 – 9
Conductivity (umhos/cm)		300 – 650
TN:TP ratio	13:1	17:1 - 27:1
Microcystin(µg/L) WHO risk Category*	Near Shore / Index Site 3.2 / 2.0	<10 Low Risk 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 Okamanpeedon Lake. August 7, 2007. Temp. (C) and DO (mg/L)