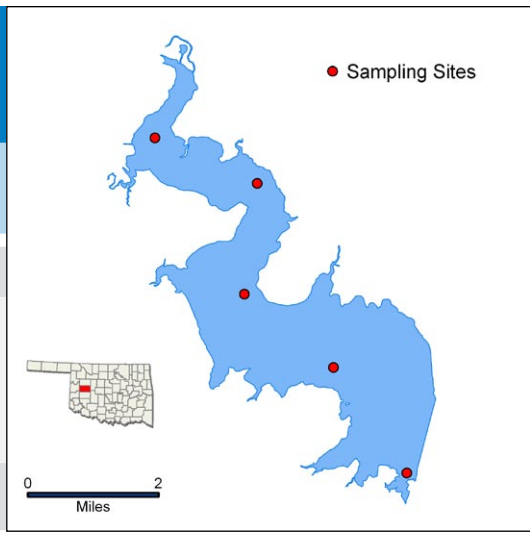


Beneficial Use Monitoring Program

FOSS

Sample Period	Times Visited	Sampling Sites
September 2004 – June 2005	4	5

Lake Data	Location	Custer County
	Impoundment	1961
	Area	8,800 acres
	Capacity	256,220 acre-feet
	Purposes	Recreation



Parameters	Parameter		Result	Notes/Comments	
	Profile	Average Turbidity		9 NTU	100% of values < OWQS of 25 NTU
		Average True Color		8 units	100% of values < OWQS of 70
		Average Secchi Disk Depth		97 cm	
		Water Clarity Rating		average	
		Trophic State Index		52	
		Trophic Class		eutrophic	
	Nutrients	Salinity		1.06– 1.24 ppt	
		Specific Conductivity		1963 –2320 µS/cm	
		pH		6.68 – 8.3 pH units	28% of recorded values > 9.0 pH units
		Oxidation-Reduction Potential		357– 557mV	
		Dissolved Oxygen			D.O. never below 2.0mg/L during study period
		Nitrogen to Phosphorus Ratio		30:1	Phosphorus limited

Beneficial Uses	Fish & Wildlife Propagation	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates, Chlorides & TDS	En,ecal coli, & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	S	S	S					
	Aesthetics					S	S			
	Agriculture							S		
	Primary Body Contact Recreation									NEI
	Public & Private Water Supply									

S = Fully Supporting
NS = Not Supporting
NEI = Not Enough Information

Notes *Bacteriological not collected during sample year 2004-2005.

NTU = nephelometric turbidity units OWQS = Oklahoma Water Quality Standards mg/L = milligrams per liter ppt = parts per thousand
 µS/cm = microsiemens per centimeter mV = millivolts µS/cm = microsiemens/cm En = Enterococci
 E. coli = Escherichia coli Chlor-a = Chlorophyll-a