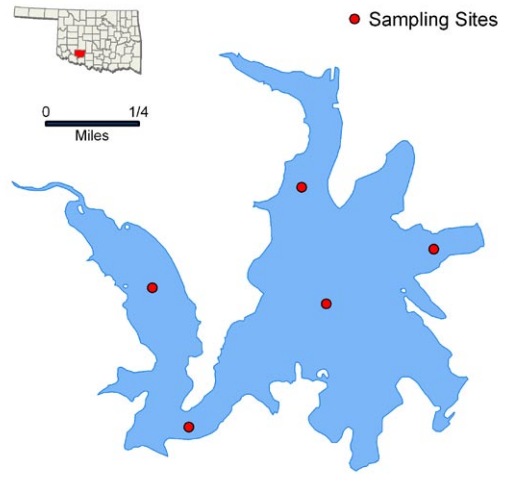


Elmer Thomas



Sample Period	Times Visited	Sampling Sites
October 2006 - July 2007	4	5

Lake Data	Location	Comanche County
	Impoundment	N/A
	Area	334 acres
	Capacity	12,000 acre-feet
	Purposes	Recreation

Parameters	Parameter	Result	Notes/Comments	
	Average Turbidity	2 NTU	100% of values < OWQS of 25 NTU	
	Average True Color	27 units	100% of values < OWQS of 70	
	Average Secchi Disk Depth	175 cm		
	Water Clarity Rating	excellent		
	Trophic State Index	39		
	Trophic Class	oligotrophic		
	Profile	Salinity	0.01 – 0.07 ppt	
		Specific Conductivity	36.2 – 150.6 µS/cm	
		pH	5.43 – 8.13 pH units	38 (15.4%) of values < 6.5 pH units
		Oxidation-Reduction Potential	41 to 522mV	
	Nutrients	Dissolved Oxygen	Up to 76% of water column < 2 mg/L in July	Occurred at sites 1 and 2
		Surface Total Nitrogen	0.31 mg/L to 0.63 mg/L	
Surface Total Phosphorus		0.005 mg/L to 0.015 mg/L		
Nitrogen to Phosphorus Ratio	46:1	Phosphorus limited		

Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates, Chlorides & TDS	En,ecal coli, & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	NS	NS	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 The PBCR beneficial use cannot be assessed as minimum data requirement were not met due to QA/QC issues for E. coli and fecal coliform.

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