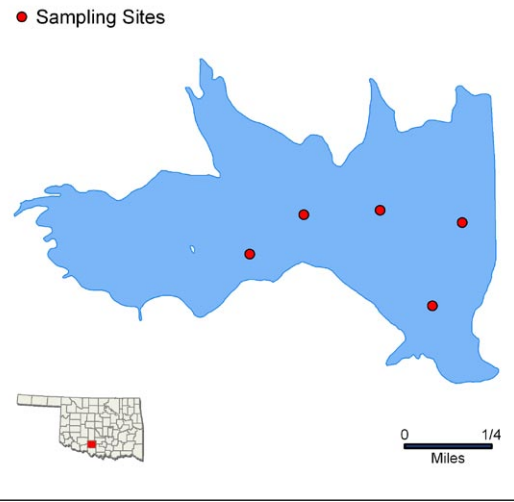


Duncan



Sample Period	Times Visited	Sampling Sites
November 2006 - August 2007	4	5

Lake Data	Location	Stephens County
	Impoundment	1937
	Area	500 acres
	Capacity	7,200 acre-feet
	Purposes	Water Supply, Recreation

Parameters	Parameter	Result	Notes/Comments	
	Average Turbidity	15 NTU	100% of values < OWQS of 25 NTU	
	Average True Color	34 units	15% of values > OWQS of 70	
	Average Secchi Disk Depth	58 cm		
	Water Clarity Rating	average		
	Trophic State Index	57		
	Trophic Class	eutrophic		
	Profile	Salinity	0.12 – 0.24 ppt	
		Specific Conductivity	244.5 – 472.2 µS/cm	
		pH	7.32– 8.44 pH units	Only 13 (7.8%) of values < 6.5 pH units
		Oxidation-Reduction Potential	95 to 426 mV	
	Nutrients	Dissolved Oxygen	Up to 22% of water column < 2 mg/L in August	Occurred at site 2
		Surface Total Nitrogen	0.59 mg/L to 0.84 mg/L	
Surface Total Phosphorus		0.016 mg/L to 0.039 mg/L		
	Nitrogen to Phosphorus Ratio	26:1	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	S	S	S				
	Aesthetics					S	NS		
	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 fecal coliform and enterococci.

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