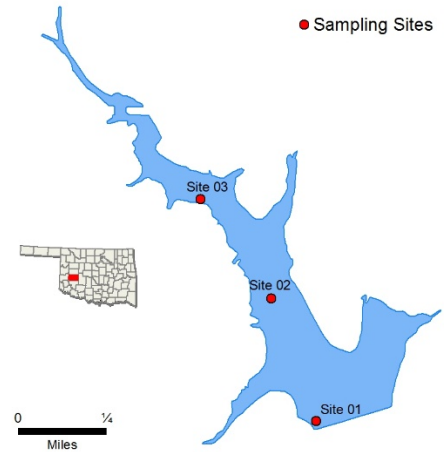


Vanderwork

Sample Period	Times Visited	Sampling Sites
October 2007 – July 2008	4	5

General	Location	Washita County
	Impoundment	1968
	Area	135 acres
	Capacity	1,578 acre-feet
	Purposes	Recreation



Parameters	Parameter (<i>Descriptions</i>)	Result	Notes/Comments	
	Average Turbidity	9 nephelometric turbidity units (NTU)	All values < 25 NTU	
	Average True Color	17 units	All values < OWQS of 70	
	Average Secchi Disk Depth	59 cm		
	Water Clarity Rating	good		
	Trophic State Index	64	Previous value = 60	
	Trophic Class	hypereutrophic		
	Profile	Salinity	0.83 - 1.01 ppt	
		Specific Conductivity	1568 – 1896 µS/cm	
		pH	7.2 – 8.18 pH units	Neutral to slightly alkaline
Oxidation-Reduction Potential		-116 to 530 mV		
Dissolved Oxygen		Up to 50% of water column < 2 mg/L in June	Occurred at site 1	
Nutrients	Surface Total Nitrogen	0.87 mg/L to 1.75 mg/L		
	Surface Total Phosphorus	0.041 mg/L to 0.100 mg/L		
	Nitrogen to Phosphorus Ratio	18:1	Phosphorus limited	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	Enterococci & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	S	NEI	S							
	Aesthetics					NEI	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply											
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		Notes	The lake is listed as a Nutrient Limited Watershed (NLW) in the Oklahoma Water Quality Standards (WQS). This listing means that the lake is considered threatened from nutrients until a more intensive study can confirm the Aesthetics beneficial use non-support status.									

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