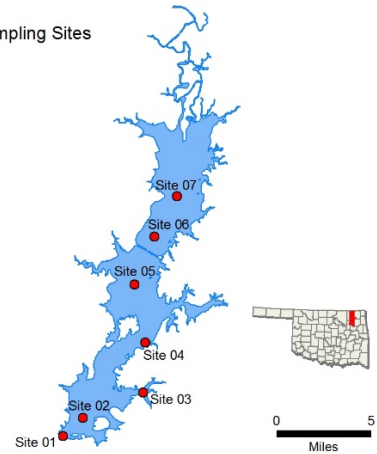


Oologah

● Sampling Sites



Sample Period	Times Visited	Sampling Sites
October 2018 – July 2019	4	7

General	Location	Rogers County
	Impoundment	1963
	Area	29,460 acres
	Capacity	553,400 acre feet
	Purposes	Water Supply, Flood Control, and Navigation

Parameters	In Situ	Parameter (<i>Descriptions</i>)	Result	Notes/Comments
		Average Turbidity	26 NTU	43% of values > OWQS of 25 NTU (n=27)
		Average Secchi Disk Depth	47.5 cm	
		Water Clarity Rating	Fair	
		Chlorophyll-a	4.36 mg/m3	
		Trophic State Index	45	Previous value = 54
	Trophic Class	Mesotrophic		
	Profile	Salinity	0.11 – 0.22 ppt	
		Specific Conductivity	226.0 – 445.7 µS/cm	
		pH	7.13 – 8.16 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	189.8 to 474.9 mV	
		Dissolved Oxygen	Up to 7% of water column < 2 mg/L in August	
Nutrients	Surface Total Nitrogen	0.49 mg/L to 1.15 mg/L		
	Surface Total Phosphorus	0.043 mg/L to 0.152 mg/L		
	Nitrogen to Phosphorus Ratio	8:1	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	NS	S	NS	S							
	Aesthetics					S	*					
	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 *Standards revision, true color is for permitting purposes only										

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