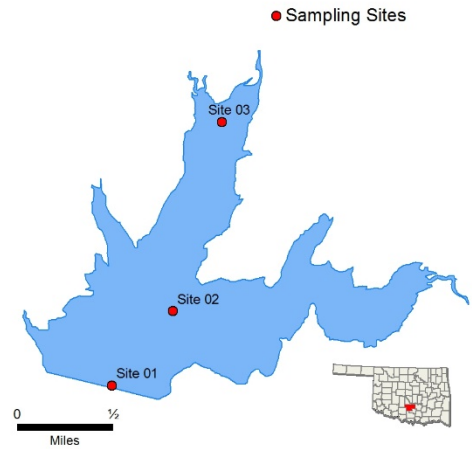


R.C. Longmire

Sample Period	Times Visited	Sampling Sites
November 2018 – August 2019	4	3

General	Location	Garvin County
	Impoundment	1989
	Area	935 acres
	Capacity	13,162 acre feet
	Purposes	Navigation, Hydropower, and Recreation



Parameters	Parameter (<i>Descriptions</i>)		Result	Notes/Comments
	In Situ	Average Turbidity	10 NTU	0% of values > OWQS of 25 NTU (n=12)
		Average Secchi Disk Depth	65.9 cm	
		Water Clarity Rating	Fair	
		Chlorophyll-a	15.7 mg/m ³	
		Trophic State Index	58	Previous value = 58
		Trophic Class	Eutrophic	
	Profile	Salinity	0.11 – 0.16 ppt	
		Specific Conductivity	242.8 – 380.9 µS/cm	
		pH	6.85 – 8.75 pH units	
		Oxidation-Reduction Potential	54.5 to 464.8 mV	
		Dissolved Oxygen	Up to 56% of water column < 2 mg/L in June	
Nutrients	Surface Total Nitrogen	0.78 mg/L to 1.155 mg/L		
	Surface Total Phosphorus	0.027 mg/L to 0.050 mg/L		
	Nitrogen to Phosphorus Ratio	24:1	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					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