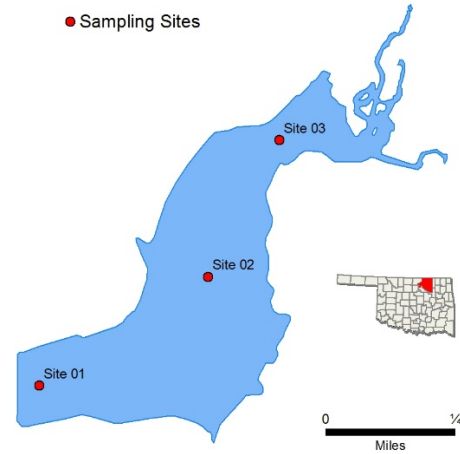


Waxhoma

● Sampling Sites



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

General	Location	Osage County
	Impoundment	1955
	Area	197 acres
	Capacity	2,100 acre-feet
	Purposes	Water Supply, Recreation

Parameters	In Situ	Parameter (<i>Descriptions</i>)	Result	Notes/Comments
		Average Turbidity	12 NTU	25% of values > OWQS of 25 NTU (n=12)
		Average Secchi Disk Depth	111.6 cm	
		Water Clarity Rating	Excellent	
		Chlorophyll-a	8.95 mg/m ³	
		Trophic State Index	52	Previous Value = 49
	Trophic Class	Eutrophic		
	Profile	Salinity	0.03 – 0.06 ppt	
		Specific Conductivity	60.3 – 136.5 μS/cm	
		pH	6.57 – 8.06 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	139.2 – 483.7 mV	
		Dissolved Oxygen	Up to 69% of water column < 2 mg/L in August	
	Nutrients	Surface Total Nitrogen	0.495 mg/L to 0.78 mg/L	
		Surface Total Phosphorus	0.017 mg/L to 0.061 mg/L	
		Nitrogen to Phosphorus Ratio	21:1	Phosphorus limited

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	Enterro. & 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

Sampling and Assessment by the Oklahoma Water Resources Board – 3800 Classen Blvd, Oklahoma City, OK, 73118 – 405.530.8800 – <http://www.owrb.ok.gov>

Bathy map available: http://www.owrb.ok.gov/maps/PMG/owrbdata_Bathy.html