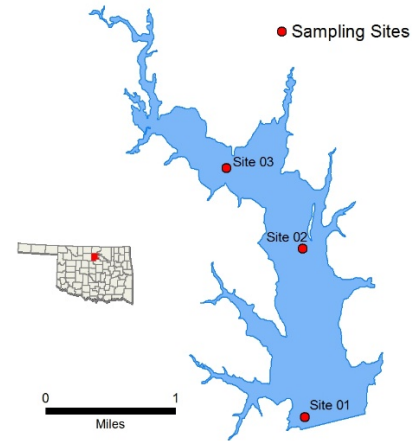


McMurtry

Sample Period	Times Visited	Sampling Sites
October 2018 – July 2019	4	3

General	Location	Noble County
	Impoundment	1971
	Area	1,155 acres
	Capacity	19,733 acre feet
	Purposes	Water Supply, Flood Control, and Recreation



Parameters	In Situ	Parameter (Descriptions)	Result	Notes/Comments
		Average Turbidity	18 NTU	17% of values > OWQS of 25 NTU (n=12)
		Average Secchi Disk Depth	52 cm	
		Water Clarity Rating	Average	
		Chlorophyll-a	8.08 mg/m ³	
		Trophic State Index	51	Previous value = 49
	Trophic Class	Eutrophic		
	Profile	Salinity	0.14 – 0.24 ppt	
		Specific Conductivity	295.4 – 491.3 μS/cm	
		pH	7.251 – 8.36 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	51.8 to 4442 mV	
		Dissolved Oxygen	Up to 66% of water column < 2.0 mg/L in July	
	Nutrients	Surface Total Nitrogen	0.50 mg/L to 0.66 mg/L	
		Surface Total Phosphorus	0.019 mg/L to 0.045 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	En & E. coli	Chlor-a
	Fish & Wildlife Propagation	NS	S	NEI	S							
	Aesthetics					S	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply											

S = Fully Supporting
NS = Not Supporting
 NEI = Not Enough Information

*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