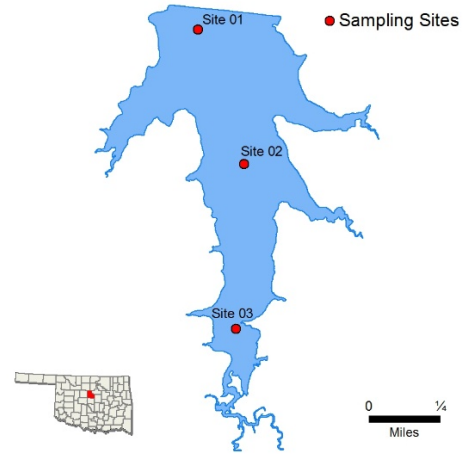


Langston



Sample Period	Times Visited	Sampling Sites
November 2015 – August 2016	4	5

General	Location	Logan County
	Impoundment	1966
	Area	304 acres
	Capacity	5,792 acre-feet
	Purposes	Water Supply, Flood Control, and Recreation

Parameters	In-Situ	Parameter (<i>Descriptions</i>)	Result	Notes/Comments
		Average Turbidity	6 NTU	100% of values < 25 NTU
		Average Secchi Disk Depth	104 cm	
		Water Clarity Rating	Excellent	
		Chlorophyll-a	5.6 mg/m ³	
		Trophic State Index	48	Previous value = 45
	Trophic Class	Mesotrophic		
	Profile	Salinity	0.18 – 0.19 ppt	
		Specific Conductivity	372.2 – 393.7 μS/cm	
		pH	7.91 – 8.42 pH units	
		Oxidation-Reduction Potential	150.1 to 336.3 mV	
		Dissolved Oxygen	Up to 27% of water column < 2 mg/L in summer	
	Nutrients	Surface Total Nitrogen	0.47 mg/L to 0.54 mg/L	
		Surface Total Phosphorus	0.010 mg/L to 0.019 mg/L	
		Nitrogen to Phosphorus Ratio	38:1	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	S	S							
	Aesthetics					S	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