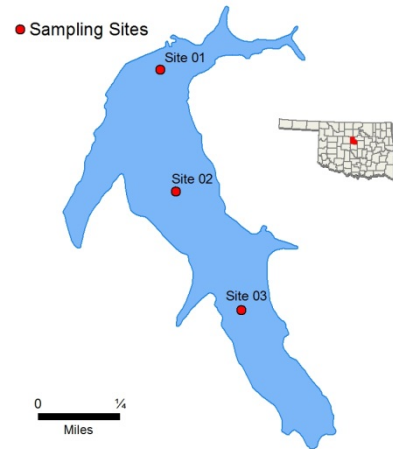


# Guthrie

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

General	Location	Logan County
	Impoundment	1919
	Area	274 acres
	Capacity	3,875 acre-feet
	Purposes	Water Supply, Recreation



Parameters	In Situ	Parameter ( <i>Descriptions</i> )	Result	Notes/Comments
		Average Turbidity	14 NTU	100% of values < OWQS of 25 NTU
		Average Secchi Disk Depth	47 cm	
		Water Clarity Rating	Average	
		Chlorophyll-a	60.6 mg/m3	
		Trophic State Index	71	Previous Value= 61
	Trophic Class	Hypereutrophic		
	Profile	Salinity	0.28– 0.32 ppt	
		Specific Conductivity	566 – 658 µS/cm	
		pH	7.83 – 8.61 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	73.4 – 294.1 mV	
		Dissolved Oxygen	Up to 25% of water column < 2 mg/L in summer	
	Nutrients	Surface Total Nitrogen	0.99 mg/L to 1.81 mg/L	
		Surface Total Phosphorus	0.048mg/L to 0.107 mg/L	
		Nitrogen to Phosphorus Ratio	18:1	Phosphorus limited

Beneficial Uses	<a href="#">Click to learn more about Beneficial Uses</a>	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	Enteroc. & E. coli	Chlor-a
	Fish & Wildlife Propagation	NS	S	S	S							
	Aesthetics					S	S					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										NS	
	Public & Private Water Supply											NS
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		<b>Notes</b> *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