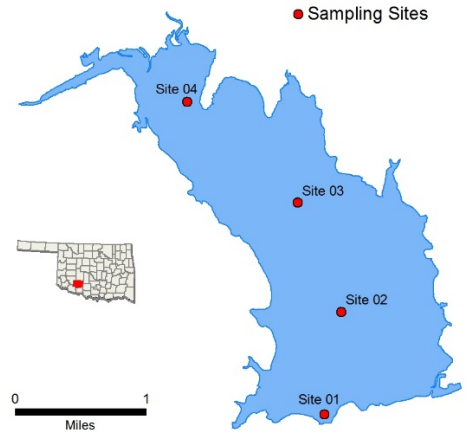


Lawtonka

Sample Period	Times Visited	Sampling Sites
October 2018 – July 2019	4	5

General	Location	Comanche County
	Impoundment	1905
	Area	2,398 acres
	Capacity	56,574 acre-feet
	Purposes	Water Supply, Recreation



Parameters	In-Situ	Parameter (<i>Descriptions</i>)	Result	Notes/Comments
		Average Turbidity	10 NTU	100% of values <OWQS of 25 NTU
		Average Secchi Disk Depth	94 cm	
		Water Clarity Rating	Excellent	
		Chlorophyll-a	25.82 mg/m ³	
		Trophic State Index	62	Previous Value= 62
	Trophic Class	Hypereutrophic		
	Profile	Salinity	0.14– 0.17 ppt	
		Specific Conductivity	296.4 – 360.6 μS/cm	
		pH	7.3 – 8.37 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	5.1 – 481.8 mV	
		Dissolved Oxygen	Up to 49% of water column < 2 mg/L in July	
	Nutrients	Surface Total Nitrogen	0.57 mg/L to 0.90 mg/L	
		Surface Total Phosphorus	0.021 mg/L to 0.054 mg/L	
		Nitrogen to Phosphorus Ratio	20:1	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											NS

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

Notes

* Standards revision, true color is for permitting purposes only

NTU = nephelometric turbidity units
 μS/cm = microsiemens per centimeter
 E. coli = Escherichia coli

OWQS = Oklahoma Water Quality Standards
 mV = millivolts
 Chlor-a = Chlorophyll-a

mg/L = milligrams per liter
 μS/cm = microsiemens/cm

ppt = parts per thousand
 En = Enterococci