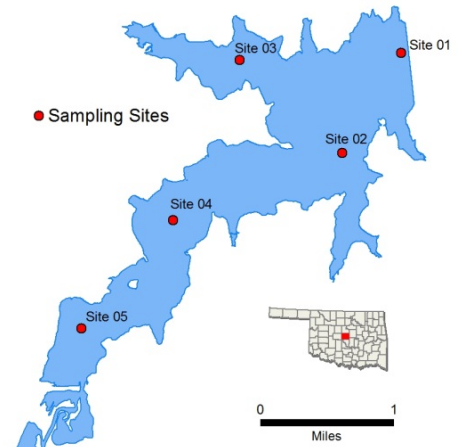


Arcadia



Sample Period	Times Visited	Sampling Sites
October 2017 - July 2018	4	5

General	Location	Oklahoma County
	Impoundment	1986
	Area	1,820 acres
	Capacity	27,520 acre-feet
	Purposes	Water Supply, Flood Control, Recreation

Parameters	In Situ	Parameter (<i>Descriptions</i>)	Result	Notes/Comments
		Average Turbidity	22 NTU	35% of values > OWQS of 25 NTU
		Average Secchi Disk Depth	52 cm	
		Water Clarity Rating	Fair	
		Chlorophyll-a	24.2 mg/m ³	
		Trophic State Index	62	Previous TSI = 62
	Trophic Class	Hypereutrophic		
	Profile	Salinity	0.17 – 0.21 ppt	
		Specific Conductivity	2.20 – 488.2 µS/cm	
		pH	7.04 – 8.88 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	-30.9 to 537mV	
		Dissolved Oxygen	Up to 51% of water column < 2 mg/L in Summer	
	Nutrients	Surface Total Nitrogen	0.74 mg/L to 1.15 mg/L	
Surface Total Phosphorus		0.033 mg/L to 0.132 mg/L		
Nitrogen to Phosphorus Ratio		15:1	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	NS	S	S	S							
	Aesthetics					S	S					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply											NS

Notes
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