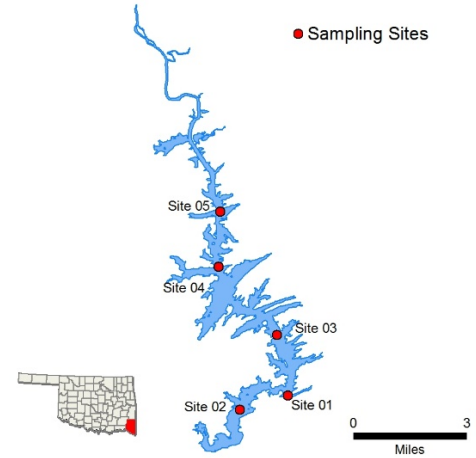


Pine Creek



Sample Period	Times Visited	Sampling Sites
November 2018 – August 2019	4	5

General	Location	McCurtain County
	Impoundment	1969
	Area	3,750 acres
	Capacity	53,750 acre-feet
	Purposes	Water Supply, Flood Control, Water quality Control, Fish and Wildlife, and Recreation

Parameters	In-Situ	Parameter (<i>Descriptions</i>)	Result	Notes/Comments
		Average Turbidity	23 NTU	5% of Values > OWQS of 25 (n=20)
		Average Secchi Disk Depth	75.7 cm	
		Water Clarity Rating	Average	
		Chlorophyll-a	9.0 mg/m3	
		Trophic State Index	52	Previous value = 62
	Trophic Class	Hypereutrophic		
	Profile	Salinity	0.01 – 0.06 ppt	
		Specific Conductivity	25.6 – 123.9 µS/cm	
		pH	5.71 – 8.13 pH units	83% of values < 6.5 pH units
		Oxidation-Reduction Potential	45.1 to 557.9 mV	
		Dissolved Oxygen	Up to 76% of water column < 2 mg/L in August	
	Nutrients	Surface Total Nitrogen	0.28 mg/L to 0.67 mg/L	
		Surface Total Phosphorus	0.026 mg/L to 0.042 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	S	NS	NS	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

Notes
*Slightly acidic conditions are common in this part of the state, due to relatively low soil pH and lack of soluble bedrock. Due to these conditions it is likely that the low pH values may be due to natural causes; therefore the Water Board is looking at the applicability of developing site-specific criteria for waters in the southeastern portion of the state. **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