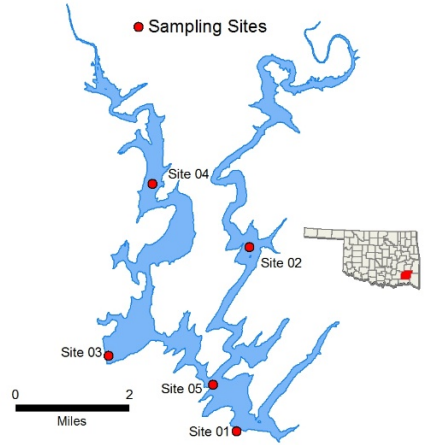


McGee Creek

Sample Period	Times Visited	Sampling Sites
December 2017 – July 2018	4	5

General	Location	Atoka County
	Impoundment	1987
	Area	3,810 acres
	Capacity	113,930 acre-feet
	Purposes	Water Supply, Recreation, Water Quality Control, Flood Control, Fish & Wildlife



Parameters	In Situ	Parameter (Descriptions)	Result	Notes/Comments
		Average Turbidity	9 NTU	5% of values < OWQS of 25 NTU (n=20)
		Average Secchi Disk Depth	112 cm	
		Water Clarity Rating	Excellent	
		Chlorophyll-a	6 mg/m ³	
		Trophic State Index	48	Previous value = 50
	Trophic Class	Mesotrophic		
	Profile	Salinity	0.02 – 0.04 ppt	
		Specific Conductivity	43.4 – 56.3 μS/cm	
		pH	6.00 – 13.67 pH units	39% < 6.5 pH & 8% > 9.0 pH
		Oxidation-Reduction Potential	21.8 – 592.4 mV	
		Dissolved Oxygen	Up to 80% of water column < 2.0 mg/L in July	Occurred at site 5
	Nutrients	Surface Total Nitrogen	0.335 mg/L to 0.69 mg/L	
		Surface Total Phosphorus	0.01 mg/L to 0.034 mg/L	
		Nitrogen to Phosphorus Ratio	25:1	Phosphorus limited

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	En & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	NS*	NS	NEI							
	Aesthetics					S	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply					NEI						

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

Notes
 *Slightly acidic conditions are not unusual in this part of the state due to relatively low soil pH and lack of soluble bedrock. Because of 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