Fort Cobb

Sample Period	Times Visited	Sampling Sites
October 2018 - July 2019	4	6

General

Location	Caddo County
Impoundment	1959
Area	4,100 acres
Capacity	80,010 acre-feet
Purposes	Flood Control, Water Supply, Fish & Wildlife, Recreation

Parameters

	Parameter (Descriptions)	Result	Notes/Comments
In Situ	Average Turbidity	16 NTU	15% of values > OWQS of 25 NTU (n=20)
	Average Secchi Disk Depth	93 cm	
	Water Clarity Rating	Good	
	Chlorophyll-a	38.02 mg/m3	
	Trophic State Index	66	Previous value = 71
	Trophic Class	Hypereutrophic	
Profile	Salinity	0.12– 0.29 ppt	
	Specific Conductivity	259 – 600 µS/cm	
	pH	7.01– 8.77 pH units	Neutral to slightly alkaline
	Oxidation-Reduction Potential	-244.7 – 414.1 mV	
	Dissolved Oxygen	Up to 64% of water column < 2.0 mg/L in July	
Nutrients	Surface Total Nitrogen	1.23 mg/L to 2.54 mg/L	
	Surface Total Phosphorus	0.200 mg/L to 0.189 mg/L	
	Nitrogen to Phosphorus Ratio	4:1	Phosphorus limited

Beneficial Uses

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

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

Notes

*The lake is listed in the WQS as a NLW indicating that the Aesthetics beneficial use is considered threatened by nutrients until studies can be conducted to confirm non-support status.
*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

Sampling and Assessment by the Oklahoma Water Resources Board – 3800 Classen Blvd, Oklahoma City, OK, 73118 – 405.530.8800 – http://www.owrb.ok.gov