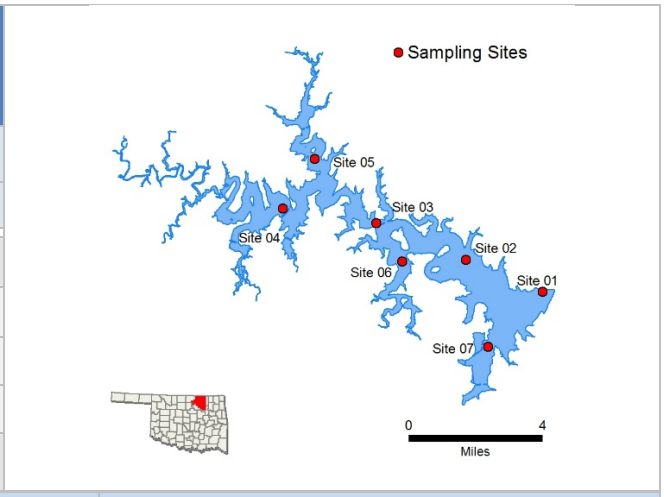
Skiatook

Sample Period	Times Visited	Sampling Sites
October 2016 – July 2017	3	7



General

Location	Osage County
Impoundment	1984
Area	10,190 acres
Capacity	322,700 acre-feet
Purposes	Flood Control, Water Supply, Water Quality Control, Recreation and Fish & Wildlife

Parameters

	Parameter (Descriptions)	Result	Notes/Comments
In Situ	Average Turbidity	6 NTU	0% of values > OWQS of 25 NTU (n=28)
	Average Secchi Disk Depth	115 cm	
	Water Clarity Rating	Excellent	
	Chlorophyll-a	6.96 mg/m3	
	Trophic State Index	50	Previous value = 51
	Trophic Class	Mesotrophic	
Profile	Salinity	0.12 – 0.14 ppt	
	Specific Conductivity	207.2 – 287.1 µS/cm	
	pH	6.75 – 8.15 pH units	
	Oxidation-Reduction Potential	20.7 to 459.3 mV	
	Dissolved Oxygen	Up to 67% of water column < 2.0 mg/L in August	At site 3
Nutrients	Surface Total Nitrogen	0.34 mg/L to 0.58 mg/L	
	Surface Total Phosphorus	0.010 mg/L to 0.036 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	En & 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				S							

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

Notes

*Standards revision, true color is for permitting purposes only
* 50-70% range is undetermined for DO.

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