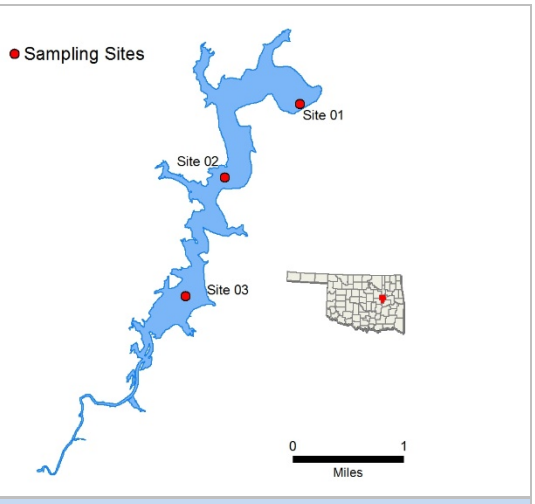
Okmulgee

Sample Period	Times Visited	Sampling Sites
February 2019 – August 2019	3	3



General

Location	Okmulgee County
Impoundment	1928
Area	668 acres
Capacity	14,170 acre-feet
Purposes	Water Supply, Recreation

Parameters

	Parameter (Descriptions)	Result	Notes/Comments
In-Situ	Average Turbidity	11 NTU	100% of values < OWQS of 25 NTU
	Average Secchi Disk Depth	72.56	
	Water Clarity Rating	Excellent	
	Chlorophyll-a	9.59 mg/m3	
	Trophic State Index	53	Previous Value= 49
	Trophic Class	Eutrophic	
Profile	Salinity	0.04 – 0.12 ppt	
	Specific Conductivity	83.1 – 249.5 µS/cm	
	pH	6.26 – 8.14 pH units	Neutral to slightly alkaline
	Oxidation-Reduction Potential	-0.20 – 401.9 mV	
	Dissolved Oxygen	Up to 71% of water column < 2 mg/L in June	
Nutrients	Surface Total Nitrogen	0.495 mg/L to 0.65 mg/L	
	Surface Total Phosphorus	0.018 mg/L to 0.040 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	Enterro. & E. coli	Chlor-a
Fish & Wildlife Propagation	S	NS	S								
Aesthetics					S	*					
Agriculture							*	*	S		
Primary Body Contact Recreation										NEI	
Public & Private Water Supply				NEI							

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

Notes: *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
Bathy map available: http://www.owrb.ok.gov/maps/PMG/owrbdata_Bathy.html