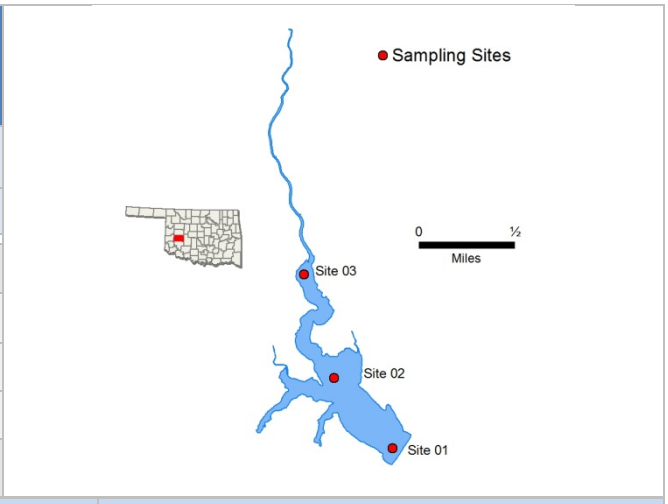
Crowder

Sample Period	Times Visited	Sampling Sites
October 2018 - July 2019	17	3



General

Location	Washita County
Impoundment	1959
Area	158 acres
Capacity	2,094 acre-feet
Purposes	Flood Control, Recreation

Parameters

	Parameter (Descriptions)	Result	Notes/Comments
In Situ	Average Turbidity	29 NTU	33% of values > OWQS of 25 NTU
	Average Secchi Disk Depth	57 cm	
	Water Clarity Rating	Average	
	Chlorophyll-a	59.5 mg/m3	
	Trophic State Index	71	Previous value =67
	Trophic Class	Hypereutrophic	
Profile	Salinity	0.23– 0.81 ppt	
	Specific Conductivity	481.8 – 1598 µS/cm	
	pH	7.06– 8.42 pH units	Neutral to slightly alkaline
	Oxidation-Reduction Potential	-250.8 – 458.2 mV	
	Dissolved Oxygen	Up to 67% of water column < 2 mg/L in July	
Nutrients	Surface Total Nitrogen	0.98 mg/L to 3.29 mg/L	
	Surface Total Phosphorus	0.072 mg/L to 0.284 mg/L	
	Nitrogen to Phosphorus Ratio	14:1	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	NS	S	NEI	S							
Aesthetics					NEI*	S					
Agriculture							S	S	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

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