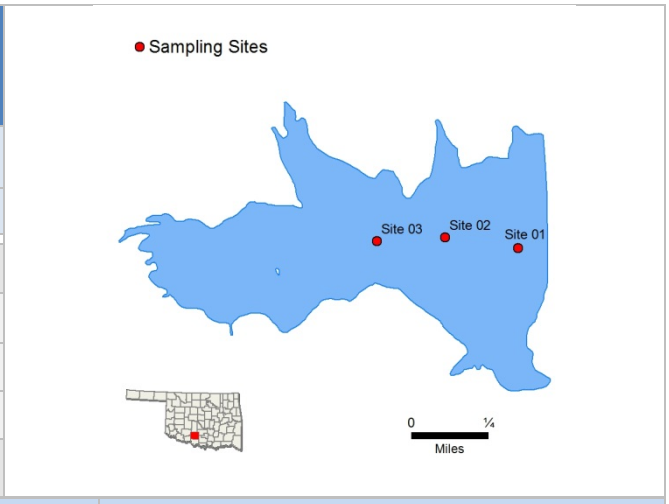
Duncan

Sample Period	Times Visited	Sampling Sites
October 2013 – July 2014	4	5



General

Location	Stephens County
Impoundment	1937
Area	500 acres
Capacity	7,200 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 (n=11)
	Average Secchi Disk Depth	97 cm	
	Water Clarity Rating	Good	
	Chlorophyll-a	9.40 mg/m3	
	Trophic State Index	53	Previous value = 60
	Trophic Class	Eutrophic	
Profile	Salinity	0.17 – 0.21 ppt	
	Specific Conductivity	353.8 – 433.8 µS/cm	
	pH	7.10– 8.41 pH units	Slightly Alkaline
	Oxidation-Reduction Potential	-34.4 – 423.10 mV	
	Dissolved Oxygen	Up to 25% of water column < 2 mg/L in July	Occurred at site 1, the dam
Nutrients	Surface Total Nitrogen	0.51 mg/L to 0.84 mg/L	
	Surface Total Phosphorus	0.020 mg/L to 0.042 mg/L	
	Nitrogen to Phosphorus Ratio	23:1	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					S	*					
Agriculture							S	S	S		
Primary Body Contact Recreation										S	
Public & Private Water Supply											

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