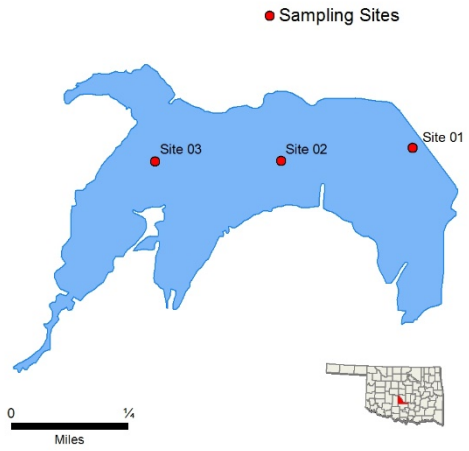
Purcell

Sample Period	Times Visited	Sampling Sites
November 2007 – August 2008	4	5



General

Location	McClain County
Impoundment	1930
Area	150 acres
Capacity	2,600 acre feet
Purposes	Water Supply and Recreation

Parameters

	Parameter (Descriptions)	Result	Notes/Comments
In Situ	Average Turbidity	14 nephelometric turbidity units (NTU)	All values < 25 NTU
	Average True Color	25 units	All values < OWQS of 70
	Average Secchi Disk Depth	57 cm	
	Water Clarity Rating	good	
	Trophic State Index	51	Previous value = 50
	Trophic Class	eutrophic	
Profile	Salinity	0.19 – 0.23 ppt	
	Specific Conductivity	374 – 462.8 µS/cm	
	pH	7.17 – 8.37 pH units	Neutral to slightly alkaline
	Oxidation-Reduction Potential	18 to 645 mV	
	Dissolved Oxygen	Up to 50% of water column < 2 mg/L in August	Occurred at site 1 & 2
Nutrients	Surface Total Nitrogen	0.60 mg/L to 0.83 mg/L	
	Surface Total Phosphorus	0.018 mg/L to 0.041 mg/L	
	Nitrogen to Phosphorus Ratio	24:1	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	NEI	S							
Aesthetics					S	*					
Agriculture							S	S	S		
Primary Body Contact Recreation										NEI	
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