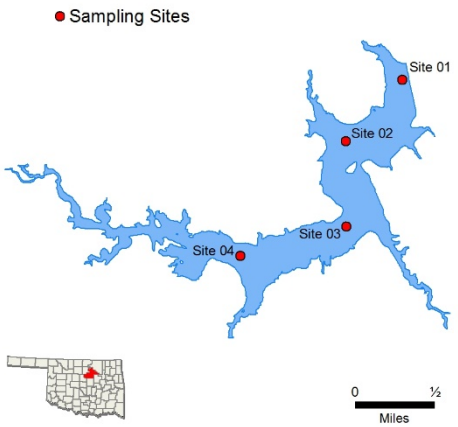
Lone Chimney

Sample Period	Times Visited	Sampling Sites
December 2015 – Sept. 2016	4	5



General

Location	Pawnee County
Impoundment	1984
Area	550 acres
Capacity	6,200 acre-feet
Purposes	Water Supply, Recreation and Flood Control

Parameters

	Parameter (Descriptions)	Result	Notes/Comments
In-Situ	Average Turbidity	10 NTU	100% of values < OWQS of 25 NTU
	Average Secchi Disk Depth	78 cm	
	Water Clarity Rating	Good	
	Chlorophyll-a	10.7 mg/m3	
	Trophic State Index	54	Previous Value=52
	Trophic Class	Eutrophic	
Profile	Salinity	0.13– 0.20 ppt	
	Specific Conductivity	276.1 – 405.4 µS/cm	
	pH	6.89 – 7.97 pH units	
	Oxidation-Reduction Potential	35.4 - 434 mV	
	Dissolved Oxygen	Up to 57% of water column < 2 mg/L in summer	
Nutrients	Surface Total Nitrogen	0.82 mg/L to 1.08 mg/L	
	Surface Total Phosphorus	0.030 mg/L to 0.043 mg/L	
	Nitrogen to Phosphorus Ratio	26:1	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								
Aesthetics					S	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

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