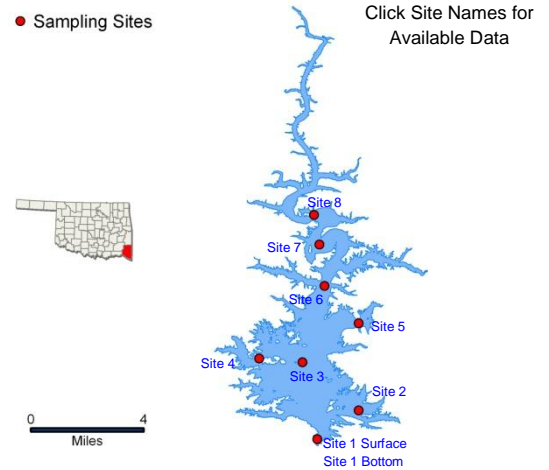


# Broken Bow

Sample Period	Times Visited	Sampling Sites
October 2015 – August 2016	4	8

General	Location	McCurtain County	Click map for site data
	Impoundment	1970	
	Area	14,200 acres	
	Capacity	918,070 acre-feet	
	Purposes	Flood Control, Hydropower, Water Supply, Recreation, Fish & Wildlife	



Parameters		Parameter ( <i>Descriptions</i> )	Result	Notes/Comments
		In Situ	Average Turbidity	2 NTU
Average Secchi Disk Depth	228 cm			
Water Clarity Rating	Excellent			
Chlorophyll-a	5 mg/m3			
Trophic State Index	46		Previous value = 45	
Trophic Class	Mesotrophic			
Profile	Salinity	0.01 – 0.05 ppt		
	Specific Conductivity	29.6 – 101.1 µS/cm		
	pH	5.49 – 8.05 pH units	78% of values < 6.5 pH units	
	Oxidation-Reduction Potential	180 – 491.6 mV		
	Dissolved Oxygen	Up to 74% of water column < 2.0 mg/L in the summer		
Nutrients	Surface Total Nitrogen	0.13 mg/L to 0.44 mg/L		
	Surface Total Phosphorus	0.009 mg/L to 0.022 mg/L		
	Nitrogen to Phosphorus Ratio	25:1	Phosphorus limited	

Beneficial Uses	<a href="#">Click to learn more about Beneficial Uses</a>	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	En & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	NS*	NS	S							
	Aesthetics					S	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										S	
	Public & Private Water Supply											
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		<b>Notes</b> *Slightly acidic conditions are not unusual in this part of the state due to relatively low soil pH and lack of soluble bedrock. *Standards revision, true color is for permitting purposes only.										

NTU = nephelometric turbidity units      OWQS = Oklahoma Water Quality Standards      mg/L = milligrams per liter      ppt = parts per thousand  
 µS/cm = microsiemens per centimeter      mV = millivolts      µS/cm = microsiemens/cm      En = Enterococci  
 E. coli = Escherichia coli      Chlor-a = Chlorophyll-a