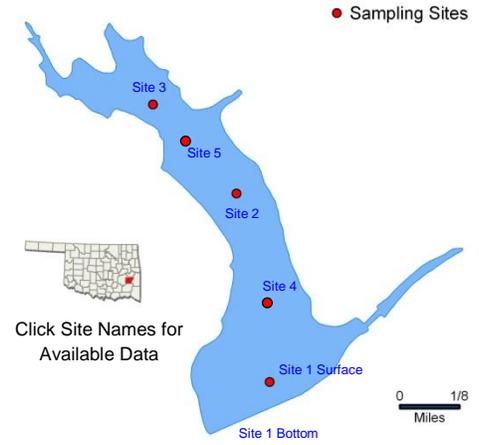


Wayne Wallace

Sample Period	Times Visited	Sampling Sites
February 2012 – August 2012	4	5

General	Location	Latimer County	Click map for site data
	Impoundment	1969	
	Area	94 acres	
	Capacity	1,746 acre feet	
	Purposes	Flood Control and Recreation	



Parameters	Parameter (<i>Descriptions</i>)	Result	Notes/Comments	
	Average Turbidity	6 NTU	100% of values < OWQS of 25 NTU (n=6)	
	Average Secchi Disk Depth	115 cm		
	Water Clarity Rating	Excellent		
	Chlorophyll-a	27 mg/m ³		
	Trophic State Index	63	Previous value = 48	
	Trophic Class	Hypereutrophic		
	Profile	Salinity	0.02 – 0.07 ppt	
		Specific Conductivity	56 – 153.5 µS/cm	
		pH	6.11 – 9.4 pH units	14.5% of recorded values are < 6.5 pH units
		Oxidation-Reduction Potential	51 to 484 mV	
		Dissolved Oxygen	Up to 60% of water column < 2 mg/L in August	
	Nutrients	Surface Total Nitrogen	0.48 mg/L to 0.59 mg/L	
Surface Total Phosphorus		0.005 mg/L to 0.014 mg/L		
Nitrogen to Phosphorus Ratio		74:1	Phosphorus limited	

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	Enterococci & 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											

Notes Slightly acidic conditions are common in this part of the state, due to relatively low soil pH and lack of soluble bedrock. Due to these conditions it is likely that the low pH values may be due to natural causes; therefore the Water Board is looking at the applicability of developing site-specific criteria for waters in the southeastern portion of the state. * 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