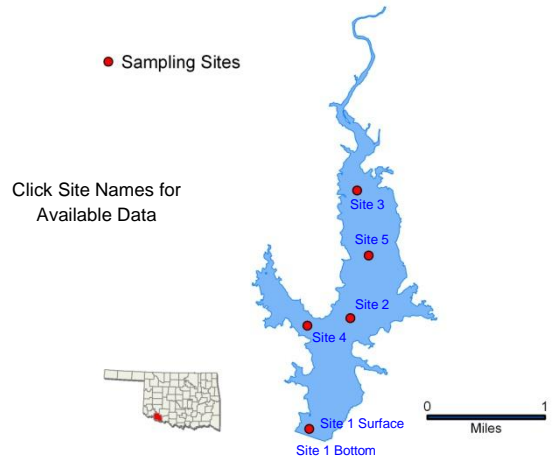


# Frederick

Sample Period	Times Visited	Sampling Sites
December 2012 -July 2013	4	3

General	Location	Tillman County	Click map for site data
	Impoundment	1974	
	Area	925 acres	
	Capacity	9,526 acre-feet	
	Purposes	Water Supply, Recreation and Flood Control	



		Parameter ( <i>Descriptions</i> )	Result	Notes/Comments
Parameters	In Situ	Average Turbidity	148 NTU	100% of values > OWQS of 25 NTU
		Average Secchi Disk Depth	11 cm	
		Water Clarity Rating	poor	
		Chlorophyll-a	12 mg/m <sup>3</sup>	
		Trophic State Index	55	Previous Value= 57
		Trophic Class	Eutrophic	
	Profile	Salinity	0.06– 0.27 ppt	
		Specific Conductivity	135 – 570 µS/cm	
		pH	7.53 – 8.57 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	22 – 375 mV	
		Dissolved Oxygen		All data for this sample year above screening level of 2 mg/L
	Nutrients	Surface Total Nitrogen	1.11 mg/L to 1.56 mg/L	
Surface Total Phosphorus		0.039 mg/L to 0.125 mg/L		
Nitrogen to Phosphorus Ratio		17:1	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	Enteroc. & 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											
	<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		<b>Notes</b> <ul style="list-style-type: none"> <li>No longer collect for this parameter</li> </ul>									

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