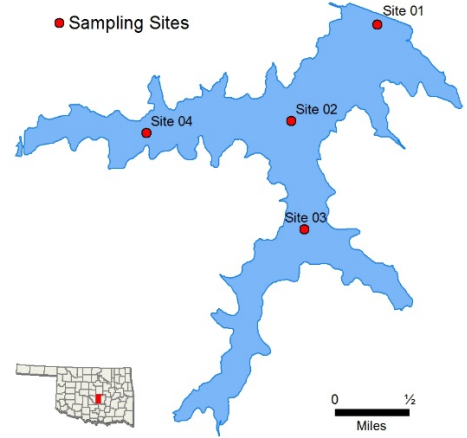


# Shawnee Twin No. 1



Sample Period	Times Visited	Sampling Sites
November 2018 – September 2019	4	4

General	Location	Pottawatomie County
	Impoundment	1935
	Area	1,336 acres
	Capacity	22,600 acre-feet
	Purposes	Water Supply, Recreation

Parameters	In-Situ	Parameter ( <i>Descriptions</i> )	Result	Notes/Comments
		Average Turbidity	12 NTU	100% of values < OWQS of 25 NTU
		Average Secchi Disk Depth	74.2 cm	
		Water Clarity Rating	Good	
		Chlorophyll-a	8.93 mg/m <sup>3</sup>	
		Trophic State Index	52	Previous Value = 47
	Trophic Class	Eutrophic		
	Profile	Salinity	0.09 – 0.13 ppt	
		Specific Conductivity	195.2 – 277.1 μS/cm	
		pH	7.10 – 8.27 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	45.1 to 468.0 mV	
		Dissolved Oxygen	Up to 30% of water column < 2 mg/L in September	
	Nutrients	Surface Total Nitrogen	0.375 mg/L to 0.765 mg/L	
		Surface Total Phosphorus	0.012 mg/L to 0.026 mg/L	
		Nitrogen to Phosphorus Ratio	31:1	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	NS	S	NEI	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>		Notes	*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