

Talawanda No. 1

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

General	Location	Pittsburg County
	Impoundment	1902
	Area	91 acres
	Capacity	12,000 acre feet
	Purposes	Waters Supply and Recreation



Parameters	Parameter (<i>Descriptions</i>)		Result	Notes/Comments
	In-Situ	Average Turbidity	4 NTU	100% of Values < OWQS of 25 NTU
		Average Secchi Disk Depth	120 cm	
		Water Clarity Rating	Excellent	
		Chlorophyll-a	5.8 mg/m3	
		Trophic State Index	48	Previous value = 47
		Trophic Class	Mesotrophic	
	Profile	Salinity	0.03 – 0.08 ppt	
		Specific Conductivity	65.1 – 178 µS/cm	
		pH	6.51 – 7.69 pH units	10.53% of values < 6.5 pH units
		Oxidation-Reduction Potential	172.6 to 373.5 mV	
		Dissolved Oxygen	Up to 44% of water column < 2 mg/L in summer	
	Nutrients	Surface Total Nitrogen	0.47 mg/L to 0.58 mg/L	
		Surface Total Phosphorus	0.017 mg/L to 0.021 mg/L	
		Nitrogen to Phosphorus Ratio	28:1	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	S	NS	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