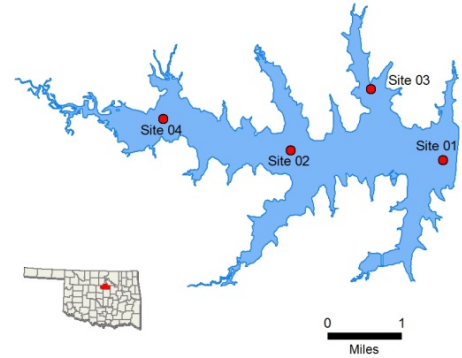


# Carl Blackwell

● Sampling Sites



Sample Period	Times Visited	Sampling Sites
November 2017 – August 2018	4	4

General	Location	Payne County
	Impoundment	1937
	Area	3,370 acres
	Capacity	61,500 acre-feet
	Purposes	Water Supply and Recreation

Parameters	In Situ	Parameter ( <i>Descriptions</i> )	Result	Notes/Comments
		Average Turbidity	13 NTU	13% of values > 25 NTU
		Average Secchi Disk Depth	64 cm	
		Water Clarity Rating	Average	
		Chlorophyll-a	15.9 mg/m3	
		Trophic State Index	58	Previous value = 57
	Trophic Class	Eutrophic		
	Profile	Salinity	0.18 – 0.24 ppt	
		Specific Conductivity	375.0 – 491.3 $\mu$ S/cm	
		pH	7.02 – 8.42 pH units	Neutral to slightly alkaline
		Oxidation-Reduction Potential	-22.8 – 480.4 mV	
		Dissolved Oxygen	Up to 63% of water column < 2.0 mg/L in summer	
	Nutrients	Surface Total Nitrogen	0.66 mg/L to 0.98 mg/L	
		Surface Total Phosphorus	0.027 mg/L to 0.076 mg/L	
		Nitrogen to Phosphorus Ratio	22:1	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											NS
<i>S = Fully Supporting</i> <i>NS = Not Supporting</i> <i>NEI = Not Enough Information</i>		<b>Notes</b> *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  
 $\mu$ S/cm = microsiemens per centimeter      mV = millivolts       $\mu$ S/cm = microsiemens/cm      En = Enterococci  
 E. coli = Escherichia coli      Chlor-a = Chlorophyll-a