## McAlester

<table>
<thead>
<tr>
<th>Sample Period</th>
<th>Times Visited</th>
<th>Sampling Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 2014 – July 2015</td>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>

### General
- **Location**: Pittsburg County
- **Impoundment**: 1930
- **Area**: 1,521 acres
- **Capacity**: 13,398 acre feet
- **Purposes**: Water Supply and Recreation

### Parameters
#### General
- **Average Turbidity**: 110 NTU
- **Average Secchi Disk Depth**: 9 cm
- **Water Clarity Rating**: Poor
- **Chlorophyll-a**: 6 mg/m3
- **Trophic State Index**: 48
- **Trophic Class**: Mesotrophic

#### In Situ
- **Salinity**: 0.03 – 0.07 ppt
- **Specific Conductivity**: 74.1 – 154.3 µS/cm
- **pH**: 6.52 – 7.91 pH units
- **Oxidation-Reduction Potential**: 60.7 to 504 mV
- **Dissolved Oxygen**: Up to 50% of water column < 2.0 mg/L in July

#### Profile
- **Surface Total Nitrogen**: 0.79 mg/L to 1.12 mg/L
- **Surface Total Phosphorus**: 0.068 mg/L to 0.110 mg/L

#### Nutrients
- **Nitrogen to Phosphorus Ratio**: 10:1

### Beneficial Uses
- **Fish & Wildlife Propagation**: NS
- **Aesthetics**: S
- **Agriculture**: S
- **Primary Body Contact Recreation**: S
- **Public & Private Water Supply**: S

### Notes
- NTU = nephelometric turbidity units
- µS/cm = microsiemens per centimeter
- E. coli = Escherichia coli
- Chlor-a = Chlorophyll-a
- OWQS = Oklahoma Water Quality Standards
- mg/L = milligrams per liter
- µS/cm = microsiemens/cm
- mV = millivolts
- ppt = parts per thousand
- En = Enterococci

* Standards revision, true color is for permitting purposes only