**McAlester**

<table>
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<tr>
<th>Sample Period</th>
<th>Times Visited</th>
<th>Sampling Sites</th>
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<td>December 2017 – August 2018</td>
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**General**

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

**Parameter (Descriptions)** | **Result** | **Notes/Comments**
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**Average Turbidity** | 87 NTU | 100% of values > OWQS of 25 NTU
**Average Secchi Disk Depth** | 23 cm | 
**Water Clarity Rating** | Poor | 
**Chlorophyll-a** | 7.82 mg/m³ | 
**Trophic State Index** | 51 | Previous value = 48
**Trophic Class** | Eutrophic | 

**Profile**

- **Salinity**: 0.04 – 0.06 ppt
- **Specific Conductivity**: 71.7 – 121.5 µS/cm
- **pH**: 6.55 – 7.47 pH units
- **Oxidation-Reduction Potential**: 127.1 – 551.4 mV
- **Dissolved Oxygen**: Up to 47% of water column < 2.0 mg/L in August

**Nutrients**

- **Surface Total Nitrogen**: 0.73 mg/L to 1.24 mg/L
- **Surface Total Phosphorus**: 0.106 mg/L to 0.201 mg/L
- **Nitrogen to Phosphorus Ratio**: 8:1

**Beneficial Uses**

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

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**Notes**

* Standards revision, true color is for permitting purposes only

**NTU** = nephelometric turbidity units  
**µS/cm** = microsiemens per centimeter  
**E. coli** = Escherichia coli  
**Chlor-a** = Chlorophyll-a  

**Sampling and Assessment by the Oklahoma Water Resources Board** – 3800 Classen Blvd, Oklahoma City, OK, 73118 – 405.530.8800 – [http://www.owrb.ok.gov](http://www.owrb.ok.gov)