# Pawhuska

<table>
<thead>
<tr>
<th></th>
<th>Sample Period</th>
<th>Times Visited</th>
<th>Sampling Sites</th>
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<tr>
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<td>October 2016 – July 2017</td>
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## General
- **Location**: Osage County
- **Impoundment**: 1936
- **Area**: 96 acres
- **Capacity**: 3,600 acre feet
- **Purposes**: Water Supply and Recreation

## Parameter (Descriptions) | Result | Notes/Comments
--- | --- | ---
Average Turbidity | 5 nephelometric turbidity units (NTU) | All values < 25 NTU
Average Secchi Disk Depth | 135 cm |  
Water Clarity Rating | excellent |  
Chlorophyll | 4.18 mg/L |  
Trophic State Index | 45 | Previous value = 41
Trophic Class | mesotrophic |  
Salinity | 0.21 – 0.27 ppt |  
Specific Conductivity | 433 – 549.6 µS/cm |  
pH | 7.14 – 8.42 pH units | Neutral to slightly alkaline
Oxidation-Reduction Potential | -17.6 to 524 mV |  
Dissolved Oxygen | Up to 64% of water column < 2 mg/L in July | Occurred at site 1
Surface Total Nitrogen | 0.31 mg/L to 0.69 mg/L |  
Surface Total Phosphorus | 0.010 mg/L to 0.028 mg/L |  
Nitrogen to Phosphorus Ratio | 29:1 | Phosphorus limited

## Nutrients
- **Surface Total Nitrogen**: 0.31 mg/L to 0.69 mg/L
- **Surface Total Phosphorus**: 0.010 mg/L to 0.028 mg/L
- **Nitrogen to Phosphorus Ratio**: 29:1

## Beneficial Uses

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<tr>
<th>Benefits Uses</th>
<th>Turbidity</th>
<th>pH</th>
<th>Dissolved Oxygen</th>
<th>Metals</th>
<th>TSI</th>
<th>True Color</th>
<th>Sulfates</th>
<th>Chlorides</th>
<th>Total Dissolved Solids</th>
<th>Enterococci &amp; E. coli</th>
<th>Chlor-a</th>
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<tr>
<td>Fish &amp; Wildlife Propagation</td>
<td>S</td>
<td>S</td>
<td>NEI</td>
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<td>Aesthetics</td>
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<td>Primary Body Contact Recreation</td>
<td>NS</td>
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<td>Public &amp; Private Water Supply</td>
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*Standards revision, true color is for permitting purposes only

**Notes**
- **S** = Fully Supporting
- **NS** = Not Supporting
- **NEI** = Not Enough Information

**Units**
- NTU = nephelometric turbidity units
- µS/cm = microsiemens per centimeter
- En = Enterococci
- mg/L = milligrams per liter
- µV = millivolts
- Chlor-a = Chlorophyll-a


Bathy map available: [http://www.owrb.ok.gov/maps/PMG/owrbdata_Bathy.html](http://www.owrb.ok.gov/maps/PMG/owrbdata_Bathy.html)