# Talawanda No. 1

**Sample Period**

<table>
<thead>
<tr>
<th>Times Visited</th>
<th>Sampling Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

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

**Parameters**

<table>
<thead>
<tr>
<th>Parameter (Descriptions)</th>
<th>Result</th>
<th>Notes/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Turbidity</td>
<td>4 NTU</td>
<td>100% of Values &lt; OWQS of 25 NTU</td>
</tr>
<tr>
<td>Average Secchi Disk Depth</td>
<td>120 cm</td>
<td></td>
</tr>
<tr>
<td>Water Clarity Rating</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Chlorophyll-a</td>
<td>5.8 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Trophic State Index</td>
<td>48</td>
<td>Previous value = 47</td>
</tr>
<tr>
<td>Trophic Class</td>
<td>Mesotrophic</td>
<td></td>
</tr>
</tbody>
</table>

**Profile**
- **Salinity**: 0.03 – 0.08 ppt
- **Specific Conductivity**: 65.1 – 178 µS/cm
- **pH**: 6.51 – 7.69 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**
- **Fish & Wildlife Propagation**: S NS NEI S
- **Aesthetics**: S *
- **Agriculture**: S S S
- **Primary Body Contact Recreation**: S
- **Public & Private Water Supply**: S

*Standards revision, true color is for permitting purposes only

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**Additional 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
- **En** = Enterococci

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