### Tom Steed

**Sample Period**
- October 2017 – July 2018

**Times Visited**
- 4

**Sampling Sites**
- 4

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### General

<table>
<thead>
<tr>
<th>Location</th>
<th>Kiowa County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impoundment</td>
<td>1975</td>
</tr>
<tr>
<td>Area</td>
<td>6,400 acres</td>
</tr>
<tr>
<td>Capacity</td>
<td>88,970 acre-feet</td>
</tr>
<tr>
<td>Purposes</td>
<td>Flood Control, Water Supply, Recreation, Fish &amp; Wildlife</td>
</tr>
</tbody>
</table>

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### Parameters

**In Situ**
- Average Turbidity: 15 NTU
  - 67% of values > OWQS of 25 NTU
- Average Secchi Disk Depth: 61 cm
- Water Clarity Rating: poor
- Chlorophyll-a: 13.61 mg/m3
- Trophic State Index: 56
  - Previous value = 53
- Trophic Class: Eutrophic

**Profile**
- Salinity: 0.43 – 0.57 ppt
- Specific Conductivity: 810 – 1300 µS/cm
- pH: 7.58 – 8.59 pH units
- Oxidation-Reduction Potential: 362.1 – 490.6 mV
- Dissolved Oxygen: All data for this sample year above the screening level of 2 mg/L

**Nutrients**
- Surface Total Nitrogen: 0.685 mg/L to 0.88 mg/L
- Surface Total Phosphorus: 0.048 mg/L to 0.096 mg/L
- Nitrogen to Phosphorus Ratio: 12:1
  - Phosphorus limited

### Beneficial Uses

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

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### Notes
- Additional site (06) added closer to dam outlet during summer sampling
- *Standards revision, true color is for permitting purposes only

### Symbols
- S = Fully Supporting
- NS = Not Supporting
- NEI = Not Enough Information

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**References**
- NTU = nephelometric turbidity units
- µS/cm = microsiemens per centimeter
- E. coli = Escherichia coli
- OWQS = Oklahoma Water Quality Standards
- mg/L = milligrams per liter
- µS/cm = microsiemens/cm
- ppt = parts per thousand
- En = Enterococci

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**Sample and Assessment by the Oklahoma Water Resources Board**


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