# Meeker

<table>
<thead>
<tr>
<th>Sample Period</th>
<th>Times Visited</th>
<th>Sampling Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 2018 – September 2019</td>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>

## General

<table>
<thead>
<tr>
<th>Location</th>
<th>Lincoln County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impoundment</td>
<td>1970</td>
</tr>
<tr>
<td>Area</td>
<td>250 acres</td>
</tr>
<tr>
<td>Capacity</td>
<td>1,818 acre-feet</td>
</tr>
<tr>
<td>Purposes</td>
<td>Water Supply, Recreation, Flood Control</td>
</tr>
</tbody>
</table>

## Parameter Descriptions

### In Situ

- **Average Turbidity**: 93 NTU
- **Average Secchi Disk Depth**: 21 cm
- **Water Clarity Rating**: Poor
- **Chlorophyll-a**: 28.64 mg/m3
  
### Nutrients

- **Surface Total Nitrogen**: 0.455 mg/L to 1.40 mg/L
- **Surface Total Phosphorus**: 0.045 mg/L to 0.143 mg/L
- **Nitrogen to Phosphorus Ratio**: 11:1

### Profile

- **Salinity**: 0.07 – 0.10 ppt
- **Specific Conductivity**: 144.0 – 203.7 µS/cm
- **pH**: 7.06 – 8.38 pH units
- **Oxidation-Reduction Potential**: 153.2 – 470.8 mV
- **Dissolved Oxygen**: All data are above screening level of 2.0 mg/L

### Beneficial Uses

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

## Notes/Comments

- **Turbidity**: 100% of values > OWQS of 25 NTU (n=12)
- **Water Clarity Rating**: Previous value = 50
- **Chlorophyll-a**: Phosphorus limited, possibly co-limited

## Beneficial Uses

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

**Notes**: *Standards revision, true color is for permitting purposes only

**Abbreviations**

- 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
- ppt = parts per thousand
- En = Enterococci


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