## Burtschi

### Sample Period

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<th>Sample Period</th>
<th>Times Visited</th>
<th>Sampling Sites</th>
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<td>November 2005 - August 2006</td>
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### General

- **Location**: Grady County
- **Impoundment**: 1958
- **Area**: 180 acres
- **Capacity**: 2,140 acre-feet
- **Purposes**: Recreation

### Parameters

#### Profile

- **Salinity**: 0.53 – 0.67 ppt
- **Specific Conductivity**: 1011 – 1273 µS/cm
- **pH**: 7.19 – 10.74 pH units (16% of values were > 9 pH units)
- **Oxidation-Reduction Potential**: 42 - 428 mV
- **Dissolved Oxygen**: Up to 38% of water column < 2 mg/L in August

#### Nutrients

- **Surface Total Nitrogen**: 0.92 mg/L to 1.82 mg/L
- **Surface Total Phosphorus**: 0.027 mg/L to 0.109 mg/L
- **Nitrogen to Phosphorus Ratio**: 24:1

### Notes

- Phosphorus limited

### Beneficial Uses

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<th>Beneficial 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>Enteroc. &amp; E. coli</th>
<th>Chlor-a</th>
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<td>Public &amp; Private Water Supply</td>
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**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

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