### American Horse

<table>
<thead>
<tr>
<th>Sample Period</th>
<th>Times Visited</th>
<th>Sampling Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 2007 - July 2008</td>
<td>4</td>
<td>5</td>
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</tbody>
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#### General
- **Location**: Blaine County  
- **Impoundment**: 1966  
- **Area**: 100 acres  
- **Capacity**: 2,200 acre-feet  
- **Purposes**: Recreation

#### Parameter (Descriptions) | Result | Notes/Comments
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**In Situ**  
Average Turbidity | 13 nephelometric turbidity units (NTU) | Lake-wide average  
Average True Color | 54 units | 25% of values > OWQS of 70  
Average Secchi Disk Depth | 118 cm |  
Water Clarity Rating | good |  
Trophic State Index | 38 | Previous value = 49  
Trophic Class | oligotrophic |  
**Profile**  
Salinity | 0.07 - 0.13 ppt |  
Specific Conductivity | 151.5 - 274.7 µS/cm |  
pH | 7.01 - 8.08 pH units |  
Oxidation-Reduction Potential | -4 to 551 mV |  
Dissolved Oxygen | Up to 60% of water column < 2 mg/L in July |  
**Nutrients**  
Surface Total Nitrogen | 0.38 mg/L to 1.07 mg/L |  
Surface Total Phosphorus | 0.018 mg/L to 0.053 mg/L |  
Nitrogen to Phosphorus Ratio | 19:1 | Phosphorus limited

#### Beneficial Uses

<table>
<thead>
<tr>
<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>Enter. &amp; E. coli</th>
<th>Chlor-a</th>
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<tbody>
<tr>
<td>Fish &amp; Wildlife Propagation</td>
<td>S</td>
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<td>NEI</td>
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<td>Agriculture</td>
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<td>Primary Body Contact Recreation</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

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**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  
**ppb** = parts per billion  
**En** = Enterococci

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