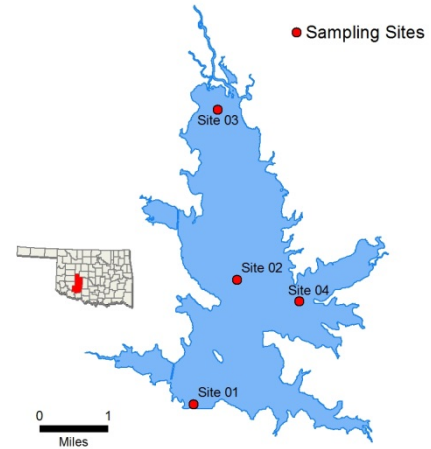


Ellsworth

| Sample Period | Times Visited | Sampling Sites |
|--------------------------|---------------|----------------|
| October 2018 – July 2019 | 4 | 5 |

| General | Location | Comanche County |
|---------|-------------|--------------------------|
| | Impoundment | 1962 |
| | Area | 5,600 acres |
| | Capacity | 95,200 acre-feet |
| | Purposes | Water Supply, Recreation |



| Parameters | In Situ | Parameter (<i>Descriptions</i>) | Result | Notes/Comments |
|------------|---------------|-----------------------------------|---|---------------------------------------|
| | | Average Turbidity | 49 NTU | 63% of values > OWQS of 25 NTU (n=20) |
| | | Average Secchi Disk Depth | 41 cm | |
| | | Water Clarity Rating | Poor | |
| | | Chlorophyll-a | 7.87 mg/m ³ | |
| | | Trophic State Index | 51 | Previous value = 60 |
| | Trophic Class | Eutrophic | | |
| | Profile | Salinity | 0.11 – 0.32 ppt | |
| | | Specific Conductivity | 241.2 – 661 µS/cm | |
| | | pH | 7.4 – 8.36 pH units | Neutral to slightly alkaline |
| | | Oxidation-Reduction Potential | 85.6 to 455 mV | |
| | | Dissolved Oxygen | Up to 39% of water column <2 mg/L in July | |
| | Nutrients | Surface Total Nitrogen | 0.69 mg/L to 1.73 mg/L | |
| | | Surface Total Phosphorus | 0.090 mg/L to 0.398 mg/L | |
| | | Nitrogen to Phosphorus Ratio | 7:1 | Possibly co - limited |

| Beneficial Uses | Click to learn more about Beneficial Uses | Turbidity | pH | Dissolved Oxygen | Metals | TSI | True Color | Sulfates | Chlorides | Total Dissolved Solids | En & E. coli | Chlor-a |
|-----------------|---|-----------|----|------------------|--------|-----|------------|----------|-----------|------------------------|--------------|---------|
| | Fish & Wildlife Propagation | NS | S | S | S | | | | | | | |
| | Aesthetics | | | | | S | N/A | | | | | |
| | Agriculture | | | | | | | N/A | N/A | S | | |
| | Primary Body Contact Recreation | | | | | | | | | | S | |
| | Public & Private Water Supply | | | | | | | | | | | NS |

| Notes | <p>S = Fully Supporting NS = Not Supporting NEI = Not Enough Information</p> <p>*Standards revision, true color is for permitting purposes only</p> |
|-------|---|
|-------|---|

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