## Purcell

### General
- **Location**: McClain County
- **Impoundment**: 1930
- **Area**: 150 acres
- **Capacity**: 2,600 acre feet
- **Purposes**: Water Supply and Recreation

### Sample Period
- **November 2007 – August 2008**

### Times Visited
- **4**

### Sampling Sites
- **5**

### Parameters

#### In Situ
- **Average Turbidity**: 14 nephelometric turbidity units (NTU)
- **Average True Color**: 25 units
- **Average Secchi Disk Depth**: 57 cm
- **Water Clarity Rating**: good
- **Trophic State Index**: 51
- **Trophic Class**: eutrophic

#### Profile
- **Salinity**: 0.19 – 0.23 ppt
- **Specific Conductivity**: 374 – 462.8 µS/cm
- **pH**: 7.17 – 8.37 pH units
- **Oxidation-Reduction Potential**: 18 to 645 mV
- **Dissolved Oxygen**: Up to 50% of water column < 2 mg/L in August

#### Nutrients
- **Surface Total Nitrogen**: 0.60 mg/L to 0.83 mg/L
- **Surface Total Phosphorus**: 0.018 mg/L to 0.041 mg/L
- **Nitrogen to Phosphorus Ratio**: 24:1

### Beneficial Uses

#### Fish & Wildlife Propagation
- **S = Fully Supporting**
- **NS = Not Supporting**
- **NEI = Not Enough Information**

#### Aesthetics
- **S = Fully Supporting**
- **NS = Not Supporting**
- **NEI = Not Enough Information**

#### Agriculture
- **S = Fully Supporting**
- **NS = Not Supporting**
- **NEI = Not Enough Information**

#### Primary Body Contact Recreation
- **S = Fully Supporting**
- **NS = Not Supporting**
- **NEI = Not Enough Information**

#### Public & Private Water Supply
- **S = Fully Supporting**
- **NS = Not Supporting**
- **NEI = Not Enough Information**

### Notes/Comments
- All values < 25 NTU
- All values < OWQS of 70
- Previous value = 50

### Standards revision, true color is for permitting purposes only

### NTU = nephelometric turbidity units
- µS/cm = microsiemens per centimeter
- E. coli = Escherichia coli
- Chlor-a = Chlorophyll-a
- mg/L = milligrams per liter
- µS/cm = microsiemens/cm
- ppt = parts per thousand
- En = Enterococci

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