**Segment ID:** 0830 **Water body name:** Benbrook Lake

Reservoir Trinity River Basin Total size: 3,770 Acres

## Aquatic Life Use

| Assessment Year | Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|---|
| 2002 | Dissolved Oxygen grab average | No Concern | Lower portion of reservoir | 1,051 | 16 | 1 | |
| 2002 | Dissolved Oxygen grab average | No Concern | Middle portion of reservoir | 924 | 16 | 1 | |
| 2002 | Dissolved Oxygen grab average | No Concern | Upper portion of reservoir | 1,042 | 16 | 1 | |
| 2002 | Dissolved Oxygen grab minimum | Fully Supporting | Lower portion of reservoir | 1,051 | 16 | 1 | |
| 2002 | Dissolved Oxygen grab minimum | Fully Supporting | Middle portion of reservoir | 924 | 16 | 0 | |
| 2002 | Dissolved Oxygen grab minimum | Fully Supporting | Upper portion of reservoir | 1,042 | 16 | 0 | |
| 2002 | Dissolved Oxygen 24hr average | Not Assessed | Lower portion of reservoir | 1,051 | 0 | | |
| 2002 | Dissolved Oxygen 24hr average | Not Assessed | Middle portion of reservoir | 924 | 0 | | |
| 2002 | Dissolved Oxygen 24hr average | Not Assessed | Upper portion of reservoir | 1,042 | 0 | | |
| 2002 | Dissolved Oxygen 24hr minimum | Not Assessed | Lower portion of reservoir | 1,051 | 0 | | |
| 2002 | Dissolved Oxygen 24hr minimum | Not Assessed | Middle portion of reservoir | 924 | 0 | | |
| 2002 | Dissolved Oxygen 24hr minimum | Not Assessed | Upper portion of reservoir | 1,042 | 0 | | |
| 2002 | Acute Metals in water | Fully Supporting | Lower portion of reservoir | 1,051 | 16 | 0 | |
| 2002 | Acute Metals in water | Fully Supporting | Middle portion of reservoir | 924 | 16 | 0 | |
| 2002 | Acute Metals in water | Fully Supporting | Upper portion of reservoir | 1,042 | 16 | 0 | |
| 2002 | Chronic Metals in water | Fully Supporting | Lower portion of reservoir | 1,051 | 16 | | |
| 2002 | Chronic Metals in water | Fully Supporting | Middle portion of reservoir | 924 | 16 | | |
| 2002 | Chronic Metals in water | Fully Supporting | Upper portion of reservoir | 1,042 | 16 | | |
| 2002 | Overall Aquatic Life Use | Fully Supporting | Lower portion of reservoir | 1,051 | | | |
| 2002 | Overall Aquatic Life Use | Fully Supporting | Middle portion of reservoir | 924 | | | |
| 2002 | Overall Aquatic Life Use | Not Assessed | Remainder of reservoir | 753 | | | |
| 2002 | Overall Aquatic Life Use | Fully Supporting | Upper portion of reservoir | 1,042 | | | |

**Segment ID:** 0830 **Water body name:** Benbrook Lake

Reservoir Trinity River Basin Total size: 3,770 Acres

| Assessment Year | Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|---|
| **Contact Recreation Use** | | | | | | | |
| 2002 | E. coli single sample | Not Assessed | Lower portion of reservoir | 1,051 | 0 | | |
| 2002 | E. coli single sample | Not Assessed | Middle portion of reservoir | 924 | 0 | | |
| 2002 | E. coli single sample | Not Assessed | Upper portion of reservoir | 1,042 | 0 | | |
| 2002 | E. coli geometric mean | Not Assessed | Lower portion of reservoir | 1,051 | 0 | | |
| 2002 | E. coli geometric mean | Not Assessed | Middle portion of reservoir | 924 | 0 | | |
| 2002 | E. coli geometric mean | Not Assessed | Upper portion of reservoir | 1,042 | 0 | | |
| 2002 | Fecal coliform single sample | Fully Supporting | Lower portion of reservoir | 1,051 | 16 | 0 | |
| 2002 | Fecal coliform single sample | Fully Supporting | Middle portion of reservoir | 924 | 16 | 0 | |
| 2002 | Fecal coliform single sample | Fully Supporting | Upper portion of reservoir | 1,042 | 16 | 1 | |
| 2002 | Fecal coliform geometric mean | Fully Supporting | Lower portion of reservoir | 1,051 | 16 | | 3 |
| 2002 | Fecal coliform geometric mean | Fully Supporting | Middle portion of reservoir | 924 | 16 | | 2 |
| 2002 | Fecal coliform geometric mean | Fully Supporting | Upper portion of reservoir | 1,042 | 16 | | 5 |
| 2002 | Overall Recreation Use | Fully Supporting | Lower portion of reservoir | 1,051 | | | |
| 2002 | Overall Recreation Use | Fully Supporting | Middle portion of reservoir | 924 | | | |
| 2002 | Overall Recreation Use | Not Assessed | Remainder of reservoir | 753 | | | |
| 2002 | Overall Recreation Use | Fully Supporting | Upper portion of reservoir | 1,042 | | | |
| **General Use** | | | | | | | |
| 2002 | Water Temperature | Fully Supporting | Lower portion of reservoir | 1,051 | 16 | 0 | |
| 2002 | Water Temperature | Fully Supporting | Middle portion of reservoir | 924 | 16 | 0 | |
| 2002 | Water Temperature | Fully Supporting | Upper portion of reservoir | 1,042 | 16 | 0 | |
| 2002 | pH | Fully Supporting | Lower portion of reservoir | 1,051 | 16 | 0 | |
| 2002 | pH | Fully Supporting | Middle portion of reservoir | 924 | 16 | 0 | |
| 2002 | pH | Fully Supporting | Upper portion of reservoir | 1,042 | 16 | 0 | |

**Segment ID:** 0830 **Water body name:** Benbrook Lake

Reservoir Trinity River Basin Total size: 3,770 Acres

| Assessment Year | Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|---|
| **General Use** (continued) | | | | | | | |
| 2002 | Chloride | Fully Supporting | Lower portion of reservoir | 1,051 | 16 | | 22.3 |
| 2002 | Chloride | Fully Supporting | Middle portion of reservoir | 924 | 16 | | 22.3 |
| 2002 | Chloride | Fully Supporting | Remainder of reservoir | 753 | 16 | | 22.3 |
| 2002 | Chloride | Fully Supporting | Upper portion of reservoir | 1,042 | 16 | | 22.3 |
| 2002 | Sulfate | Fully Supporting | Lower portion of reservoir | 1,051 | 16 | | 36.3 |
| 2002 | Sulfate | Fully Supporting | Middle portion of reservoir | 924 | 16 | | 36.3 |
| 2002 | Sulfate | Fully Supporting | Remainder of reservoir | 753 | 16 | | 36.3 |
| 2002 | Sulfate | Fully Supporting | Upper portion of reservoir | 1,042 | 16 | | 36.3 |
| 2002 | Total Dissolved Solids | Fully Supporting | Lower portion of reservoir | 1,051 | 60 | | 211.35 |
| 2002 | Total Dissolved Solids | Fully Supporting | Middle portion of reservoir | 924 | 60 | | 211.35 |
| 2002 | Total Dissolved Solids | Fully Supporting | Remainder of reservoir | 753 | 60 | | 211.35 |
| 2002 | Total Dissolved Solids | Fully Supporting | Upper portion of reservoir | 1,042 | 60 | | 211.35 |
| 2002 | Overall General Use | Fully Supporting | Lower portion of reservoir | 1,051 | | | |
| 2002 | Overall General Use | Fully Supporting | Middle portion of reservoir | 924 | | | |
| 2002 | Overall General Use | Fully Supporting | Remainder of reservoir | 753 | | | |
| 2002 | Overall General Use | Fully Supporting | Upper portion of reservoir | 1,042 | | | |
| **Fish Consumption Use** | | | | | | | |
| 2002 | Human Health Criteria Lead | Fully Supporting | Lower portion of reservoir | 1,051 | 16 | | 2.49 |
| 2002 | Human Health Criteria Lead | Fully Supporting | Middle portion of reservoir | 924 | 16 | | 2.49 |
| 2002 | Human Health Criteria Lead | Fully Supporting | Upper portion of reservoir | 1,042 | 16 | | 2.49 |
| 2002 | Overall Fish Consumption Use | Fully Supporting | Lower portion of reservoir | 1,051 | | | |
| 2002 | Overall Fish Consumption Use | Fully Supporting | Middle portion of reservoir | 924 | | | |
| 2002 | Overall Fish Consumption Use | Not Assessed | Remainder of reservoir | 753 | | | |
| 2002 | Overall Fish Consumption Use | Fully Supporting | Upper portion of reservoir | 1,042 | | | |

**Segment ID:** 0830 **Water body name:** Benbrook Lake

Reservoir Trinity River Basin Total size: 3,770 Acres

| Assessment Year | Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|---|
| **Public Water Supply Use** | | | | | | | |
| 2002 | Surface Water: Long-term average Nitrate+Nitrite Nitrogen | Fully Supporting | Lower portion of reservoir | 1,051 | 16 | | 0.123 |
| 2002 | Surface Water: Long-term average Nitrate+Nitrite Nitrogen | Fully Supporting | Middle portion of reservoir | 924 | 16 | | 0.12 |
| 2002 | Surface Water: Long-term average Nitrate+Nitrite Nitrogen | Fully Supporting | Upper portion of reservoir | 1,042 | 16 | | 0.14 |
| 2002 | Overall Public Water Supply Use | Fully Supporting | Lower portion of reservoir | 1,051 | | | |
| 2002 | Overall Public Water Supply Use | Fully Supporting | Middle portion of reservoir | 924 | | | |
| 2002 | Overall Public Water Supply Use | Fully Supporting | Remainder of reservoir | 753 | | | |
| 2002 | Overall Public Water Supply Use | Fully Supporting | Upper portion of reservoir | 1,042 | | | |
| **Overall Use Support** | | | | | | | |
| 2002 | | Fully Supporting | Lower portion of reservoir | 1,051 | | | |
| 2002 | | Fully Supporting | Middle portion of reservoir | 924 | | | |
| 2002 | | Fully Supporting | Remainder of reservoir | 753 | | | |
| 2002 | | Fully Supporting | Upper portion of reservoir | 1,042 | | | |
| **Nutrient Enrichment Concern** | | | | | | | |
| 2002 | Ammonia Nitrogen | Concern | Lower portion of reservoir | 1,051 | 16 | 5 | |
| 2002 | Ammonia Nitrogen | No Concern | Middle portion of reservoir | 924 | 16 | 4 | |
| 2002 | Ammonia Nitrogen | No Concern | Upper portion of reservoir | 1,042 | 16 | 4 | |
| 2002 | Nitrite + Nitrate Nitrogen | No Concern | Lower portion of reservoir | 1,051 | 16 | 1 | |
| 2002 | Nitrite + Nitrate Nitrogen | No Concern | Middle portion of reservoir | 924 | 16 | 1 | |
| 2002 | Nitrite + Nitrate Nitrogen | No Concern | Upper portion of reservoir | 1,042 | 16 | 1 | |
| 2002 | Orthophosphorus | No Concern | Lower portion of reservoir | 1,051 | 16 | 0 | |
| 2002 | Orthophosphorus | No Concern | Middle portion of reservoir | 924 | 16 | 0 | |

**Segment ID:** 0830 **Water body name:** Benbrook Lake

Reservoir Trinity River Basin Total size: 3,770 Acres

| Assessment Year | Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|---|
| **Nutrient Enrichment Concern** (continued) | | | | | | | |
| 2002 | Orthophosphorus | No Concern | Upper portion of reservoir | 1,042 | 16 | 0 | |
| 2002 | Total Phosphorus | No Concern | Lower portion of reservoir | 1,051 | 16 | 0 | |
| 2002 | Total Phosphorus | No Concern | Middle portion of reservoir | 924 | 16 | 1 | |
| 2002 | Total Phosphorus | No Concern | Upper portion of reservoir | 1,042 | 16 | 1 | |
| 2002 | Overall Nutrient Enrichment Concerns | Concern | Lower portion of reservoir | 1,051 | | | |
| 2002 | Overall Nutrient Enrichment Concerns | No Concern | Middle portion of reservoir | 924 | | | |
| 2002 | Overall Nutrient Enrichment Concerns | Not Assessed | Remainder of reservoir | 753 | | | |
| 2002 | Overall Nutrient Enrichment Concerns | No Concern | Upper portion of reservoir | 1,042 | | | |
| **Algal Growth Concern** | | | | | | | |
| 2002 | Chlorophyll a | Concern | Lower portion of reservoir | 1,051 | 16 | 5 | |
| 2002 | Chlorophyll a | Concern | Middle portion of reservoir | 924 | 16 | 5 | |
| 2002 | Chlorophyll a | Not Assessed | Remainder of reservoir | 753 | | | |
| 2002 | Chlorophyll a | Concern | Upper portion of reservoir | 1,042 | 16 | 5 | |
| **Sediment Contaminants Concern** | | | | | | | |
| 2002 | Overall Sediment Contaminant Concerns | Not Assessed | Lower portion of reservoir | 1,051 | | | |
| 2002 | Overall Sediment Contaminant Concerns | Not Assessed | Middle portion of reservoir | 924 | | | |
| 2002 | Overall Sediment Contaminant Concerns | Not Assessed | Remainder of reservoir | 753 | | | |
| 2002 | Overall Sediment Contaminant Concerns | Not Assessed | Upper portion of reservoir | 1,042 | | | |

**Segment ID:** 0830 **Water body name:** Benbrook Lake

Reservoir Trinity River Basin Total size: 3,770 Acres

| Assessment Year | Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|---|
| **Fish Tissue Contaminants Concern** | | | | | | | |
| 2002 | Overall Fish Tissue Contaminant Concerns | Not Assessed | Lower portion of reservoir | 1,051 | | | |
| 2002 | Overall Fish Tissue Contaminant Concerns | Not Assessed | Middle portion of reservoir | 924 | | | |
| 2002 | Overall Fish Tissue Contaminant Concerns | Not Assessed | Remainder of reservoir | 753 | | | |
| 2002 | Overall Fish Tissue Contaminant Concerns | Not Assessed | Upper portion of reservoir | 1,042 | | | |
| **Public Water Supply Concern** | | | | | | | |
| 2002 | Finished Water: Chloride | No Concern | Lower portion of reservoir | 1,051 | | | |
| 2002 | Finished Water: Chloride | No Concern | Middle portion of reservoir | 924 | | | |
| 2002 | Finished Water: Chloride | No Concern | Remainder of reservoir | 753 | | | |
| 2002 | Finished Water: Chloride | No Concern | Upper portion of reservoir | 1,042 | | | |
| 2002 | Finished Water: Sulfate | No Concern | Lower portion of reservoir | 1,051 | | | |
| 2002 | Finished Water: Sulfate | No Concern | Middle portion of reservoir | 924 | | | |
| 2002 | Finished Water: Sulfate | No Concern | Remainder of reservoir | 753 | | | |
| 2002 | Finished Water: Sulfate | No Concern | Upper portion of reservoir | 1,042 | | | |
| 2002 | Finished Water: Total Dissolved Solids | No Concern | Lower portion of reservoir | 1,051 | | | |
| 2002 | Finished Water: Total Dissolved Solids | No Concern | Middle portion of reservoir | 924 | | | |
| 2002 | Finished Water: Total Dissolved Solids | No Concern | Remainder of reservoir | 753 | | | |
| 2002 | Finished Water: Total Dissolved Solids | No Concern | Upper portion of reservoir | 1,042 | | | |
| 2002 | Finished Water: MTBE | No Concern | Lower portion of reservoir | 1,051 | | | |
| 2002 | Finished Water: MTBE | No Concern | Middle portion of reservoir | 924 | | | |

**Segment ID:** 0830 **Water body name:** Benbrook Lake

Reservoir Trinity River Basin Total size: 3,770 Acres

## Public Water Supply Concern (continued)

| Assessment Year | Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|---|
| 2002 | Finished Water: MTBE | No Concern | Remainder of reservoir | 753 | | | |
| 2002 | Finished Water: MTBE | No Concern | Upper portion of reservoir | 1,042 | | | |
| 2002 | Finished Water: Perchlorate | Not Assessed | Lower portion of reservoir | 1,051 | | | |
| 2002 | Finished Water: Perchlorate | Not Assessed | Middle portion of reservoir | 924 | | | |
| 2002 | Finished Water: Perchlorate | Not Assessed | Remainder of reservoir | 753 | | | |
| 2002 | Finished Water: Perchlorate | Not Assessed | Upper portion of reservoir | 1,042 | | | |
| 2002 | Finished Water: Overall | No Concern | Lower portion of reservoir | 1,051 | | | |
| 2002 | Finished Water: Overall | No Concern | Middle portion of reservoir | 924 | | | |
| 2002 | Finished Water: Overall | No Concern | Remainder of reservoir | 753 | | | |
| 2002 | Finished Water: Overall | No Concern | Upper portion of reservoir | 1,042 | | | |
| 2002 | Surface Water: Chloride | No Concern | Lower portion of reservoir | 1,051 | 16 | | 22.3 |
| 2002 | Surface Water: Chloride | No Concern | Middle portion of reservoir | 924 | 16 | | 22.3 |
| 2002 | Surface Water: Chloride | No Concern | Remainder of reservoir | 753 | 16 | | 22.3 |
| 2002 | Surface Water: Chloride | No Concern | Upper portion of reservoir | 1,042 | 16 | | 22.3 |
| 2002 | Surface Water: Sulfate | No Concern | Lower portion of reservoir | 1,051 | 16 | | 36.3 |
| 2002 | Surface Water: Sulfate | No Concern | Middle portion of reservoir | 924 | 16 | | 36.3 |
| 2002 | Surface Water: Sulfate | No Concern | Remainder of reservoir | 753 | 16 | | 36.3 |
| 2002 | Surface Water: Sulfate | No Concern | Upper portion of reservoir | 1,042 | 16 | | 36.3 |
| 2002 | Surface Water: Total Dissolved Solids | No Concern | Lower portion of reservoir | 1,051 | 60 | | 211.35 |
| 2002 | Surface Water: Total Dissolved Solids | No Concern | Middle portion of reservoir | 924 | 60 | | 211.35 |
| 2002 | Surface Water: Total Dissolved Solids | No Concern | Remainder of reservoir | 753 | 60 | | 211.35 |

**Segment ID:** 0830 **Water body name:** Benbrook Lake

Reservoir Trinity River Basin Total size: 3,770 Acres

| Assessment Year | Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|---|
| **Public Water Supply Concern** (continued) | | | | | | | |
| 2002 | Surface Water: Total Dissolved Solids | No Concern | Upper portion of reservoir | 1,042 | 60 | | 211.35 |
| 2002 | Surface Water: Overall | No Concern | Lower portion of reservoir | 1,051 | | | |
| 2002 | Surface Water: Overall | No Concern | Middle portion of reservoir | 924 | | | |
| 2002 | Surface Water: Overall | No Concern | Remainder of reservoir | 753 | | | |
| 2002 | Surface Water: Overall | No Concern | Upper portion of reservoir | 1,042 | | | |
| 2002 | Overall Public Water Supply Concerns | No Concern | Lower portion of reservoir | 1,051 | | | |
| 2002 | Overall Public Water Supply Concerns | No Concern | Middle portion of reservoir | 924 | | | |
| 2002 | Overall Public Water Supply Concerns | No Concern | Remainder of reservoir | 753 | | | |
| 2002 | Overall Public Water Supply Concerns | No Concern | Upper portion of reservoir | 1,042 | | | |
| **Narrative Criteria Concern** | | | | | | | |
| 2002 | Overall Narrative Criteria Concerns | No Concern | Lower portion of reservoir | 1,051 | | | |
| 2002 | Overall Narrative Criteria Concerns | No Concern | Middle portion of reservoir | 924 | | | |
| 2002 | Overall Narrative Criteria Concerns | No Concern | Remainder of reservoir | 753 | | | |
| 2002 | Overall Narrative Criteria Concerns | No Concern | Upper portion of reservoir | 1,042 | | | |
| **Overall Secondary Concern** | | | | | | | |
| 2002 | | Concern | Lower portion of reservoir | 1,051 | | | |
| 2002 | | Concern | Middle portion of reservoir | 924 | | | |
| 2002 | | No Concern | Remainder of reservoir | 753 | | | |

**Segment ID:** 0830 **Water body name:** Benbrook Lake

Reservoir Trinity River Basin Total size: 3,770 Acres

| Assessment Year | Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|---|

## Overall Secondary Concern (continued)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2002 | | Concern | Upper portion of reservoir | 1,042 | | | |