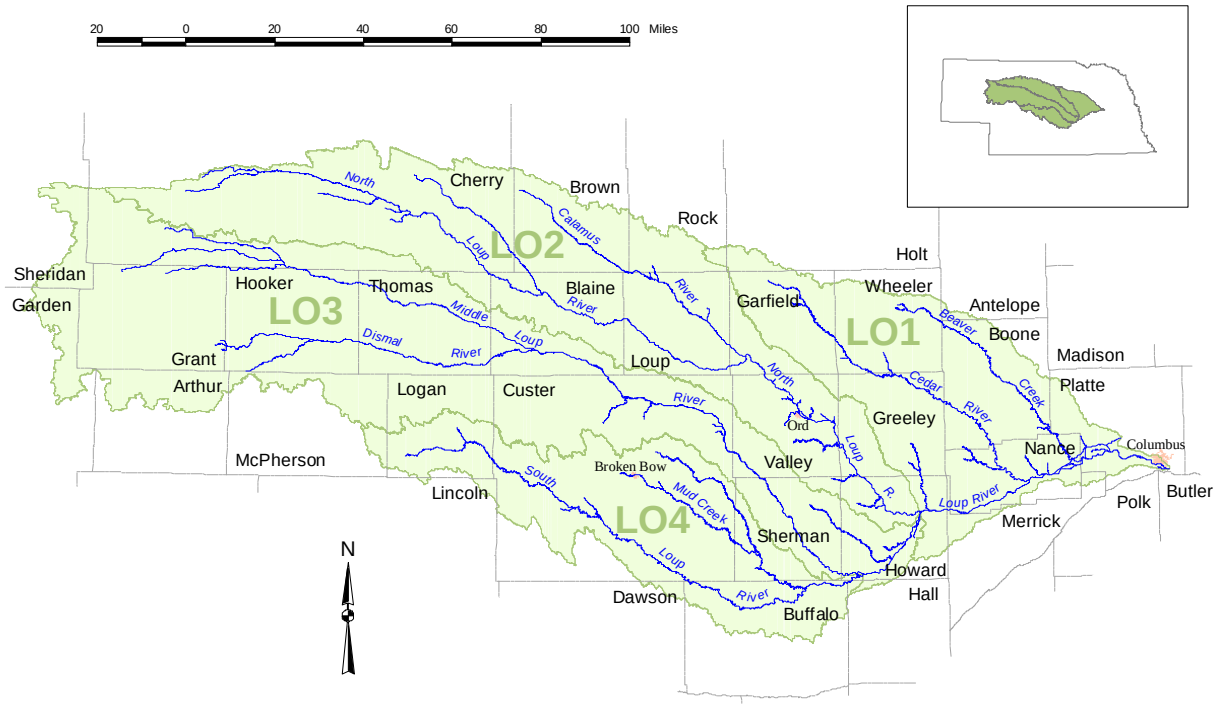


# LOUP RIVER BASIN (and Subbasins)

## Loup River Basin – Hydrologic Units 10210001, 10210002, 10210003, 10210004, 10210005, 10210006, 10210007, 10210008, 10210009 and 10210010

The Loup River Basin includes 107 designated stream segments and 47 designated lakes/reservoirs. The waterbody assessments also included two reservoirs (Davis Creek Willow Lake) that have not been assigned waterbody a waterbody identification number.

| Waterbody Type | Primary Contact Recreation | Aquatic Life CA[1] | Aquatic Life CB[1] | Aquatic Life WA[1] | Aquatic Life WB[1] | Water Supply – Public Drinking | Water Supply – Ag | Water Supply-Ind. | Aesthetics |
|---|---|---|---|---|---|---|---|---|---|
| Lakes | 47 | 0 | 1 | 46 | 0 | 0 | 47 | 0 | 47 |
| Streams | 37 | 0 | 36 | 26 | 45 | 0 | 107 | 0 | 107 |

[1] CA = Coldwater Class A, CB = Coldwater Class B, WA = Warmwater Class A and WB = Warmwater Class B

**Delisting/ Changes from 2008 IR**

The following are waters and or parameters that were delisted – removed from category 5 or other significant changes from the 2008 IR.

***LO3-L0090Alkali Lake-***This lake was listed as impaired due to pH in the 2006 Integrated Report and placed in category 4c as a naturally alkaline lake. NDEQ has since modified Title 117 – Nebraska Surface Water Quality Standards to state "Hydrogen Ion concentrations, expressed as pH shall be maintained between 6.5 and 9.0; unless pH values outside this range are due to natural conditions". Chemical and geological data indicate the pH in this lake is the result of natural conditions. The pH impairment will be delisted and the lake will placed in category 2.

| Waterbody ID | Waterbody Name | Recreation | Aquatic Life | Public Drinking Water | Agriculture Water Supply | Industrial Water Supply | Aesthetics | Overall Assessment | 2010 IR | Impairments | Parameters of Concern | Comments/Action |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lakes** | | | | | | | | | | | | |
| LO1-L0010 | Columbus City Park Pond | NA | I | | NA | | S | I | 5 | Fish consumption advisory | Hazard index compounds, Mercury | Fish consumption assessment |
| LO1-L0020 | Columbus Issac Walton Lake | NA | NA | | NA | | NA | | 3 | | | |
| LO1-L0030 | Pawnee Park Lake (Columbus) | NA | NA | | NA | | NA | | 3 | | | |
| LO1-L0040 | Stires Lake | NA | NA | | NA | | NA | | 3 | | | |
| LO1-L0050 | Wagner's Lake | NA | NA | | NA | | NA | | 3 | | | |
| LO1-L0060 | Loup Power District Headgate Pond No. 1 | NA | NA | | NA | | NA | | 3 | | | |
| LO1-L0070 | Loup Power District Headgate Pond No. 2 | NA | NA | | NA | | NA | | 3 | | | |
| LO1-L0080 | Loup Power District Headgate Pond No. 3 | NA | NA | | NA | | NA | | 3 | | | |
| LO1-L0090 | Loup Power District Headgate Pond No. 4 | NA | NA | | NA | | NA | | 3 | | | |
| LO1-L0100 | Loup Power District Headgate Pond No. 5 | NA | NA | | NA | | NA | | 3 | | | |
| LO1-L0110 | Stevenson's Lake | NA | NA | | NA | | NA | | 3 | | | |
| LO1-L0120 | Wolbach City Lake | NA | NA | | NA | | NA | | 3 | | | |
| LO1-L0130 | Pibel Lake | NA | I | | S | | S | I | 5 | Fish consumption advisory, Nutrients, Low dissolved oxygen, High pH | Mercury, Total phosphorus, Total nitrogen, Chlorophyll a, | Fish consumption assessment |
| LO1-L0140 | Lake Ericson | NA | S | | S | | S | S | 2 | | | Fish consumption assessment |
| LO1-L0150 | Fullerton City Lake | NA | NA | | NA | | NA | | 3 | | | |

| Waterbody ID | Waterbody Name | Recreation | Aquatic Life | Public Drinking Water | Agriculture Water Supply | Industrial Water Supply | Aesthetics | Overall Assessment | 2010 IR | Impairments | Parameters of Concern | Comments/Action |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LO2-L0010 | North Loup Lake (SRA) | NA | I | | NA | | NA | I | 5 | Fish consumption advisory | Hazard index compounds | Fish consumption assessment |
| LO2-L0015 | Davis Creek Reservoir | S | I | | S | | S | I | 5 | Nutrients, Low dissolved oxygen | Total phosphorus, Chlorophyll a | Fish consumption assessment |
| LO2-L0020 | Ord City Lake | NA | NA | | NA | | S | S | 2 | | | |
| LO2-L0030 | Burwell Lake | NA | NA | | NA | | NA | | 3 | | | |
| LO2-L0040 | Burwell Park Lake | NA | NA | | NA | | NA | | 3 | | | |
| LO2-L0050 | Calamus Reservoir | S | I | | S | | S | S | 5 | High pH | Unknown | Fish consumption assessment |
| LO2-L0055 | Willow Lake B.C. | NA | NA | | NA | | NA | | 3 | | | |
| LO2-L0060 | Clear Lake | NA | S | | S | | S | S | 2 | | | |
| LO2-L0070 | Enders Overflow Lake | NA | NA | | NA | | NA | | 3 | | | |
| LO2-L0080 | Long Lake (SRA) | NA | S | | S | | S | S | 2 | | | |
| LO2-L0090 | South Twin Lake (WMA) | NA | NA | | NA | | NA | | 3 | | | |
| LO2-L0100 | Dew Lake (Valentine NWR) | NA | NA | | NA | | NA | | 3 | | | |
| LO2-L0110 | Crooked Lake (Valentine NWR) | NA | NA | | NA | | NA | | 3 | | | |
| LO2-L0120 | East Long Lake (Valentine NWR) | NA | NA | | NA | | NA | | 3 | | | |
| LO2-L0180 | Cow Lake (Valentine NWR) | NA | NA | | NA | | NA | | 3 | | | |
| LO2-L0250 | Coleman Lake (Valentine NWR) | NA | NA | | NA | | NA | | 3 | | | |
| LO2-L0260 | Rat and Beaver Lake (WMA) | NA | NA | | NA | | NA | | 3 | | | |
| LO2-L0270 | Mule Lake (Valentine NWR) | NA | NA | | NA | | NA | | 3 | | | |
| LO2-L0280 | Devil's Punch Bowl Lake (Valentine NWR) | NA | NA | | NA | | NA | | 3 | | | |

| Waterbody ID | Waterbody Name | Recreation | Aquatic Life | Public Drinking Water | Agriculture Water Supply | Industrial Water Supply | Aesthetics | Overall Assessment | 2010 IR | Impairments | Parameters of Concern | Comments/Action |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LO3-L0010 | Farwell South Reservoir | NA | I | | NA | | NA | I | 5 | Fish consumption advisory | Mercury | Fish consumption assessment |
| LO3-L0020 | Sherman Reservoir | S | I | | S | | S | I | 5 | Fish consumption advisory, Nutrients, Low dissolved oxygen | Mercury, Total phosphorus | Fish consumption assessment |
| LO3-L0030 | Bowman Lake (SRA) | NA | NA | | NA | | NA | | 3 | | | |
| LO3-L0040 | Victoria Springs Lake (SRA) | NA | NA | | NA | | NA | | 3 | | | |
| LO3-L0050 | Halsey Trout Pond (Nebraska National Forest) | NA | NA | | NA | | NA | | 3 | | | |
| LO3-L0060 | Spring Valley Lake | NA | NA | | NA | | NA | | 3 | | | |
| LO3-L0070 | Frey Lake | NA | S | | S | | S | S | 2 | | | |
| LO3-L0090 | Alkali Lake | NA | S | | S | | S | S | 2 | | | Naturally alkaline Sandhills lake |
| LO4-L0010 | Ravenna Lake (SRA) | NA | I | | NA | | NA | I | 5 | Fish consumption advisory | Mercury | Fish consumption assessment |
| LO4-L0020 | Beaver Creek Lake (SWA) | NA | NA | | NA | | NA | | 3 | | | |
| LO4-L0030 | Ansley City Lake | NA | I | | S | | S | I | 4r | Nutrients | Total nitrogen, Chlorophyll a | Lake recently renovated, Fish consumption assessment |
| LO4-L0040 | Melham Park Lake (Broken Bow) | NA | NA | | NA | | NA | | 3 | | | |
| LO4-L0050 | Arnold Lake (SRA) | NA | S | | NA | | NA | | 2 | | | Fish consumption assessment |
| **Streams** | | | | | | | | | | | | |
| LO1-10000 | Loup River | I | S | | S | | S | I | 4a | E. coli | E. coli | E. coli TMDL approved 1/06, Fish consumption assessment |
| LO1-10100 | Barnum Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-10200 | Cherry Creek | | NA | | NA | | NA | | 3 | | | |

| Waterbody ID | Waterbody Name | Recreation | Aquatic Life | Public Drinking Water | Agriculture Water Supply | Industrial Water Supply | Aesthetics | Overall Assessment | 2010 IR | Impairments | Parameters of Concern | Comments/Action |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LO1-10300 | Unnamed Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-10400 | Looking Glass Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-10500 | Looking Glass Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-10600 | Beaver Creek | I | S | | S | | S | I | 5 | E. coli | E. coli | |
| LO1-10610 | Bogus Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-10700 | Beaver Creek | I | I | | S | | S | I | 5 | E. coli, Impaired aquatic community | E. coli, Unknown | Aquatic community & Fish consumption assessment |
| LO1-10800 | Beaver Creek | | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LO1-10900 | Beaver Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-10910 | Unnamed Tributary | | NA | | NA | | NA | | 3 | | | |
| LO1-11000 | Beaver Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-20000 | Loup River | NA | NA | | NA | | NA | | 3 | | | |
| LO1-20100 | Unnamed Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-20200 | Loup River Canal | I | S | | S | | S | S | 5 | E. coli | E. coli | |
| LO1-30000 | Loup River | I | S | | S | | S | I | 4a | E. coli | E. coli | E. coli TMDL approved 1/06 |
| LO1-30100 | Council Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-30200 | Plum Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-30300 | Cedar River | I | S | | S | | S | I | 4a | E. coli | E. coli | E. coli TMDL approved 1/06, Fish consumption assessment |
| LO1-30310 | Timber Creek | | S | | S | | S | S | 1 | | | |
| LO1-30311 | South Branch Timber Creek | | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LO1-30312 | North Branch Timber Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-30320 | Clear Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-30400 | Cedar River | | NA | | NA | | NA | | 3 | | | |
| LO1-30500 | Cedar River | | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LO1-30510 | Dry Cedar Creek | | NA | | NA | | NA | | 3 | | | |

| Waterbody ID | Waterbody Name | Recreation | Aquatic Life | Public Drinking Water | Agriculture Water Supply | Industrial Water Supply | Aesthetics | Overall Assessment | 2010 IR | Impairments | Parameters of Concern | Comments/Action |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LO1-30600 | Cedar River | | NA | | NA | | NA | | 3 | | | |
| LO1-30610 | Little Cedar Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-30620 | Big Cedar Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-30700 | Spring Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-30710 | West Branch Spring Creek | | NA | | NA | | NA | | 3 | | | |
| LO1-30800 | Spring Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-10000 | North Loup River | I | S | | S | | S | I | 4a | E. coli | E. coli | E. coli TMDL approved 1/06, Aquatic community & Fish consumption assessment |
| LO2-10100 | Auger Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-10200 | Munson Creek | | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LO2-10300 | Davis Creek | | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LO2-10400 | Mira Creek | | S | | S | | S | S | 1 | | | Aquatic community assessment |
| LO2-10410 | South Branch Mira Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-10420 | North Branch Mira Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-10500 | Messenger Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-10600 | Spring Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-10700 | Elm Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-10800 | Unnamed Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-10900 | Dane Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-11000 | Haskell Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-11100 | Turtle Creek | | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LO2-11200 | Bean Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-11300 | Calamus River | I | I | | S | | S | I | 5 | E. coli, High temperature | E. coli, Temperature | |
| LO2-11310 | Gracie Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-11320 | Bloody Creek | | NA | | NA | | NA | | 3 | | | |

| Waterbody ID | Waterbody Name | Recreation | Aquatic Life | Public Drinking Water | Agriculture Water Supply | Industrial Water Supply | Aesthetics | Overall Assessment | 2010 IR | Impairments | Parameters of Concern | Comments/Action |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LO2-11330 | Skull Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-11400 | Calamus River | I | I | | S | | S | I | 4a,c | E. coli, High temperature | E. coli, Temperature | E. coli TMDL approved 1/06 |
| LO2-11500 | Calamus River | NA | NA | | NA | | NA | | 3 | | | |
| LO2-11600 | Calamus River | | NA | | NA | | NA | | 3 | | | |
| LO2-20000 | North Loup River | S | I | | S | | S | I | 4c | High temperature | Temperature | Fish consumption assessment |
| LO2-20100 | Goose Creek | NA | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LO2-20200 | Goose Creek | | S | | NA | | NA | S | 2 | | | Aquatic community assessment, ICI score not representative of water quality conditions |
| LO2-30000 | North Loup River | I | I | | S | | S | I | 4a,c | E. coli, High temperature | E. coli, Temperature | E. coli TMDL approved 1/06 |
| LO2-30100 | Pass Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-40000 | North Loup River | I | I | | S | | S | I | 4a,c | E. coli, High temperature | E. coli, Temperature | E. coli TMDL approved 1/06, Aquatic community assessment, ICI score not representative of water quality conditions |
| LO2-40100 | Brush Creek | | NA | | NA | | NA | | 3 | | | |
| LO2-40200 | Big Creek | | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LO2-50000 | North Loup River | | | | | | | | 3 | | | |
| LO2-60000 | North Loup River | | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LO2-70000 | North Loup River | | NA | | NA | | NA | | 3 | | | |
| LO2-70100 | Mud Creek | | NA | | NA | | NA | | 3 | | | |
| LO3-10000 | Middle Loup River | I | S | | S | | S | I | 4a | E. coli | E. coli | E. coli TMDL approved 1/06, Fish consumption assessment |
| LO3-10100 | Lake Creek | | NA | | NA | | NA | | 3 | | | |

| Waterbody ID | Waterbody Name | Recreation | Aquatic Life | Public Drinking Water | Agriculture Water Supply | Industrial Water Supply | Aesthetics | Overall Assessment | 2010 IR | Impairments | Parameters of Concern | Comments/Action |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LO3-10200 | Turkey Creek | | I | | S | | S | I | 5 | May-June atrazine | Atrazine | |
| LO3-10300 | Oak Creek | | NA | | NA | | NA | | 3 | | | |
| LO3-10400 | Oak Creek | NA | I | | NA | | NA | I | 5 | Impaired aquatic community | Unknown | Aquatic community assessment |
| LO3-20000 | Middle Loup River | S | S | | S | | S | S | 1 | | | |
| LO3-30000 | Middle Loup River | S | S | | S | | S | S | 1 | | | Aquatic community & Fish consumption assessment |
| LO3-40000 | Middle Loup River | S | S | | S | | S | S | 1 | | | Fish consumption assessment |
| LO3-40100 | Unnamed Creek | | NA | | NA | | NA | | 3 | | | |
| LO3-40200 | Wagner Creek | | NA | | NA | | NA | | 3 | | | |
| LO3-40300 | Lillian Creek | | NA | | NA | | NA | | 3 | | | |
| LO3-40400 | Victoria Creek | | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LO3-50000 | Middle Loup River | S | S | | S | | S | S | 1 | | | |
| LO3-50100 | Dismal River | S | I | | S | | S | I | 4c | High temperature | Temperature | Fish consumption assessment |
| LO3-50200 | Dismal River | S | S | | S | | S | S | 1 | | | Aquatic community assessment |
| LO3-50300 | Dismal River | I | S | | S | | S | I | 4a | E. coli | E. coli | E. coli TMDL approved 1/06 |
| LO3-50310 | South Fork Dismal River | NA | NA | | NA | | NA | | 3 | | | |
| LO3-50320 | South Fork Dismal River | | NA | | NA | | NA | | 3 | | | |
| LO3-50330 | North Fork Dismal River | NA | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LO3-50340 | North Fork Dismal River | | NA | | NA | | NA | | 3 | | | |
| LO3-60000 | Middle Loup River | S | I | | S | | S | I | 4c | High temperature | Temperature | Aquatic community assessment |
| LO3-70000 | Middle Loup River | I | S | | S | | S | I | 5 | E. coli | E. coli | |
| LO3-70100 | South Branch Middle Loup River | | NA | | NA | | NA | | 3 | | | |
| LO3-70200 | North Branch Middle Loup River | | NA | | NA | | NA | | 3 | | | |

| Waterbody ID | Waterbody Name | Recreation | Aquatic Life | Public Drinking Water | Agriculture Water Supply | Industrial Water Supply | Aesthetics | Overall Assessment | 2010 IR | Impairments | Parameters of Concern | Comments/Action |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| LO3-70210 | Middle Branch Middle Loup River | | NA | | NA | | NA | | 3 | | | |
| LO3-70300 | North Branch Middle Loup River | | NA | | NA | | NA | | 3 | | | |
| LO4-10000 | South Loup River | I | S | | S | | S | I | 4a | E. coli | E. coli | E. coli TMDL approved 1/06, Aquatic community & Fish consumption assessment |
| LO4-10100 | Mud Creek | I | I | | S | | S | I | 5 | E. coli, May-June atrazine | E. coli, Atrazine | |
| LO4-10110 | Spring Branch | | NA | | NA | | NA | | 3 | | | |
| LO4-10120 | Clear Creek | | NA | | NA | | NA | | 3 | | | |
| LO4-10200 | Mud Creek | I | I | | S | | S | I | 5 | E. coli, Impaired aquatic community | E. coli, Unknown | Aquatic community assessment |
| LO4-10210 | Dutchman Valley | | NA | | NA | | NA | | 3 | | | |
| LO4-20000 | South Loup River | I | S | | S | | S | I | 4a | E. coli | E. coli | E. coli TMDL approved 1/06, Aquatic community & Fish consumption assessment |
| LO4-20100 | Spring Creek | | NA | | NA | | NA | | 3 | | | |
| LO4-30000 | South Loup River | I | S | | S | | S | I | 5 | E. coli | E. coli | Aquatic community assessment |
| LO4-30100 | Sand Creek | | NA | | NA | | NA | | 3 | | | |
| LO4-30200 | Unnamed Creek | | NA | | NA | | NA | | 3 | | | |
| LO4-40000 | South Loup River | I | S | | S | | S | I | 5 | E. coli | E. coli | |
| LO4-40100 | North Fork South Loup River | | NA | | NA | | NA | | 3 | | | |
| LO4-50000 | South Loup River | | NA | | NA | | NA | | 3 | | | |
| | | | | | | | | | | | | |

| Waterbody ID | Waterbody Name | Recreation | Aquatic Life | Public Drinking Water | Agriculture Water Supply | Industrial Water Supply | Aesthetics | Overall Assessment | 2010 IR | Impairments | Parameters of Concern | Comments/Action |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |