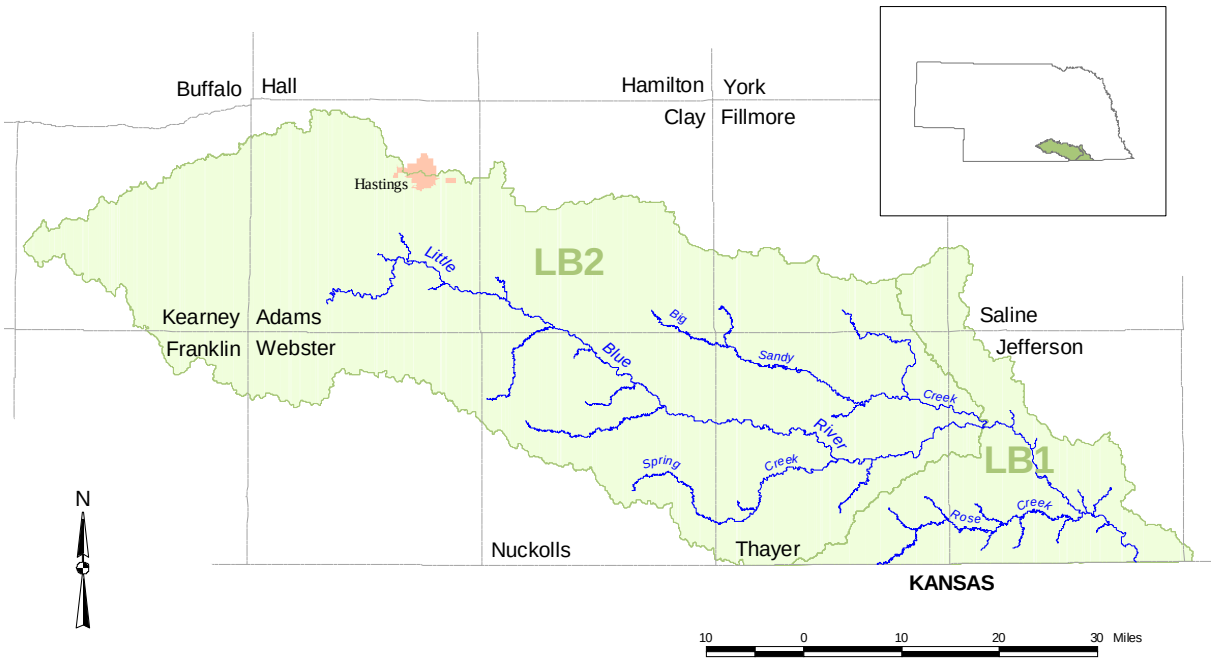


# LITTLE BLUE RIVER BASIN (and Subbasins)

## Little Blue Basin – Hydrologic Units 10270206 and 10270207

The Little Blue River Basin includes 38 designated stream segments and 13 designated lakes/reservoirs.

| 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 | 13 | 0 | 0 | 13 | 0 | 3 | 13 | 0 | 13 |
| Streams | 6 | 0 | 0 | 14 | 24 | 1 | 38 | 0 | 38 |

[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.

***LB2-L0040: Bruning Dam Lake and LB2-L0090 Roseland Lake-*** These waterbodies were listed as impaired for nutrients in the 2006 Integrated Report. EPA indicated that the nutrient values NDEQ used for the 2006 assessments were not acceptable and not suitable for Clean Water Act purposes. In February 2009 EPA deferred taking action on these waterbodies until the 2010 Integrated Report when a mutually agreed upon nutrient criteria would be used to assess for nutrient impairments. Following the agreed upon nutrient translators and the 2010 assessment methodologies, the nutrient data and information for these waterbodies do not meet the requirements for assessment. Additional parameters designed to protect aquatic life indicate these waterbodies are supporting the aquatic life beneficial use. Additionally, the 2010 aesthetics beneficial use assessment for these waterbodies demonstrates full support; therefore these waterbodies will be 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** | | | | | | | | | | | | |
| LB1-L0010 | Buckley Reservoir (3F) | NA | I | | S | | S | I | 5 | Nutrients | Total phosphorus, Total nitrogen | |
| LB1-L0020 | Crystal Springs Northwest Lake | NA | S | | S | | S | S | 2 | | | Fish consumption assessment |
| LB1-L0030 | Crystal Springs Center Lake | NA | NA | | NA | | NA | | 3 | | | |
| LB1-L0040 | Crystal Springs East Lake | NA | NA | | NA | | NA | | 3 | | | |
| LB1-L0050 | Lone Star Reservoir | S | I | | S | | S | I | 5 | Nutrients, Low dissolved oxygen | Total phosphorus, Total nitrogen, Chlorophyll a | Lake recently renovated |
| LB2-L0010 | Alexandria Lake No. 1 & 2 | S | NA | | NA | | S | S | 2 | | | |
| LB2-L0030 | Alexandria Lake No. 3 | I | I | | S | | S | I | 5 | Algal Toxins, High pH, Low dissolved oxygen | Nutrients | Fish consumption assessment |
| LB2-L0040 | Bruning Dam Lake | NA | S | | S | | S | S | 2 | | | Delist nutrients -insufficient data for assessment procedures |
| LB2-L0050 | Liberty Cove Lake | NA | I | | S | | I | I | 5 | Fish consumption advisory, Nutrients, High pH | Hazard index compounds, Mercury, Total phosphorus, Total nitrogen, Chlorophyll a | Fish consumption assessment |
| LB2-L0060 | Brick Yard Park Pond | NA | NA | | NA | | NA | | 3 | | | |
| LB2-L0070 | Crystal Lake (SRA) | NA | I | | S | | S | I | 5 | High pH | Unknown | |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LB2-L0080 | Prairie Lake (32-Mile H) | NA | I | | S | | S | I | 5 | High pH | Unknown | Fish consumption assessment, Delist nutrients- insufficient data for assessment procedures |
| LB2-L0090 | Roseland Lake (32-Mile D) | NA | S | | S | | S | S | 2 | | | Delist nutrients -insufficient data for assessment procedures |
| **Streams** | | | | | | | | | | | | |
| LB1-10000 | Little Blue River | I | I | I | S | | S | I | 5 | E. coli, May-June atrazine, Atrazine-water supply | E. coli, Atrazine | E. coli TMDL approved 3/05, Aquatic community & Fish consumption assessment |
| LB1-10100 | Coon Creek | | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LB1-10200 | Rock Creek | I | S | | NA | | NA | I | 5 | E. coli | E. coli | Aquatic community assessment |
| LB1-10300 | Smith Creek | | NA | | NA | | NA | | 3 | | | |
| LB1-10400 | Rose Creek | | NA | | NA | | NA | | 3 | | | |
| LB1-10410 | Dry Branch | | S | | NA | | S | S | 2 | | | Aquatic community assessment |
| LB1-10420 | Silver Creek | | NA | | NA | | NA | | 3 | | | |
| LB1-10430 | Buckley Creek | | NA | | NA | | NA | | 3 | | | |
| LB1-10500 | Rose Creek | | NA | | NA | | NA | | 3 | | | |
| LB1-10510 | Wiley Creek | | NA | | NA | | NA | | 3 | | | |
| LB1-10520 | Balls Branch | | NA | | NA | | NA | | 3 | | | |
| LB1-10530 | Spring Branch | | NA | | NA | | NA | | 3 | | | |
| LB1-10600 | Rose Creek | | NA | | NA | | NA | | 3 | | | |
| LB1-10700 | Whisky Run | | NA | | NA | | NA | | 3 | | | |
| LB1-10800 | Little Sandy 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LB2-10000 | Little Blue River | I | I | | S | | S | I | 5 | E. coli, May-June atrazine | E. coli, Atrazine | E. coli TMDL approved 3/05 |
| LB2-10100 | Big Sandy Creek | I | I | | S | | S | I | 5 | E. coli, May-June atrazine | E. coli, Atrazine | Aquatic community assessment |
| LB2-10110 | Dry Sandy Creek | | NA | | NA | | NA | | 3 | | | |
| LB2-10200 | Big Sandy Creek | | I | | NA | | NA | I | 5 | Fish consumption advisory | Hazard index compounds, Mercury | Aquatic community & Fish consumption assessment |
| LB2-10210 | South Fork Big Sandy Creek | | NA | | NA | | NA | | 3 | | | |
| LB2-10220 | Little Sandy Creek | | NA | | NA | | NA | | 3 | | | |
| LB2-10300 | Big Sandy Creek | | NA | | NA | | NA | | 3 | | | |
| LB2-10400 | Dry Creek | | NA | | NA | | NA | | 3 | | | |
| LB2-10500 | Spring Creek | | I | | NA | | S | I | 5 | Impaired aquatic community | Unknown | Aquatic community assessment |
| LB2-10510 | Unnamed Creek | | NA | | NA | | NA | | 3 | | | |
| LB2-10600 | Spring Creek | | I | | NA | | S | I | 5 | Impaired aquatic community | Unknown | Aquatic community assessment |
| LB2-20000 | Little Blue River | I | I | | S | | S | I | 5 | E. coli, May-June atrazine | E. coli, Atrazine | Aquatic community & Fish consumption assessment |
| LB2-20100 | Elk Creek | | NA | | NA | | NA | | 3 | | | |
| LB2-20200 | Elk Creek | | S | | NA | | S | S | 2 | | | Aquatic community assessment |
| LB2-20300 | Ox Bow Creek | | NA | | NA | | NA | | 3 | | | |
| LB2-20400 | Walnut Creek | | NA | | NA | | NA | | 3 | | | |
| LB2-20500 | Liberty Creek | | S | | NA | | NA | S | 2 | | | Aquatic community assessment |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LB2-30000 | Little Blue River | I | S | | S | | S | I | 5 | E. coli | E. coli | Aquatic community assessment |
| LB2-30100 | Pawnee Creek | | NA | | NA | | NA | | 3 | | | |
| LB2-30200 | Ash Creek | | NA | | NA | | NA | | 3 | | | |
| LB2-30300 | Thirty-two Mile Creek | | NA | | NA | | NA | | 3 | | | |
| LB2-40000 | Little Blue River | | S | | NA | | NA | S | 2 | | | Aquatic community assessment |
| LB2-40100 | Scott Creek | | NA | | NA | | NA | | 3 | | | |
| **Wetlands** | | | | | | | | | | | | |
| LB2-Undesig. | Gleason WPA | | NA | | NA | | NA | | 3 | | | |
| LB2-Undesig. | Massie WPA | | NA | | NA | | NA | | 3 | | | |
| LB2-Undesig. | McMurtrey WPA | | NA | | NA | | NA | | 3 | | | |
| LB2-Undesig. | Moger WPA | | NA | | NA | | NA | | 3 | | | |