



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Total Maximum Daily Load Information Sheet

Little Beaver Creek Water Body ID: 1529

Water Body Segment at a Glance:

County: Phelps
Nearby City: Rolla
Length: 3.5 miles
Pollutant: Bacteria
Source: Municipal point source discharges



State map showing location of watershed

Schedule for TMDL development:

TMDL development schedules are subject to change.

The most current schedule for TMDL development is available on the department's website at dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm

Other TMDLs and information sheets:

The U.S. Environmental Protection Agency approved a permit in lieu of a TMDL in 2009 to address an impairment due to biochemical oxygen demand. This permit and EPA's approval letter is available on the department's website at dnr.mo.gov/env/wpp/tmdl/1529-l-beaver-ck-record.htm.

Little Beaver Creek is also impaired due to excess sedimentation. An information sheet specific to this impairment is available online at dnr.mo.gov/env/wpp/tmdl/info/1529-l-beaver-ck-info-sd-gr.pdf

Description of the Problem

A water body is considered impaired when it fails to meet applicable water quality standards. Water quality standards consist of designated uses, water quality criteria, an antidegradation policy and implementation procedures. Little Beaver Creek is impaired due to exceedances of the state water quality criterion that protects the whole body contact category A designated use.

Designated uses of Little Beaver Creek*

- Warm Water Habitat (WWH)
- Whole Body Contact Recreation Category A (WBC-A)
- Secondary Contact Recreation (SCR)
- Human Health Protection (HHP)
- Irrigation (IRR)
- Livestock and Wildlife Protection (LWP)

*In addition to these specific uses, all waters of the state are protected by the general water quality criteria that are specified in the state's Water Quality Standards at 10 CSR 20-7.031(4).

Designated Uses that are impaired

- Whole Body Contact Recreation Category A (WBC-A)

Standards that apply

- Missouri's Water Quality Standards at 10 CSR 20-7.031(5)(C) and Table A state that .

Water quality data and assessment

In Missouri's water quality standards at 10 CSR 20-7.031(5)(C) and Table A, specific numeric criteria are given for the protection of the whole body contact recreation use. For category A waters, *E. coli* counts, measured as a geometric mean, shall not exceed 126 counts/100 mL of water "during the recreational season." The state's recreational season is defined in this section of the rule as being from April 1 to October 31.

A stream is judged to be impaired by bacteria if the recreational season geometric mean of measured *E. coli* data exceeds the water quality criterion in any of the last three years for which there is sufficient and available data. For Little Beaver Creek, sufficient data (>5 samples) was available in 2011. The geometric mean of *E. coli* data collected from Little Beaver Creek in 2011 was 902.

TMDL for Little Beaver Creek

The Little Beaver Creek TMDL will calculate the maximum amount of each listed pollutant that the stream can receive and still meet water quality standards. The TMDL will also identify all potential or suspected pollutant sources in the watershed and distribute the allowable pollutant loads among those various sources. When developed, the Little Beaver Creek TMDL will use the most current and available data. For this reason, the final TMDL may present information that differs from that contained in this information sheet.

For more information call or write:

Department of Natural Resources
Water Protection Program – Watershed Protection Section
P.O. Box 176
Jefferson City, MO 65102-0176
Ph: 1-800-361-4827 or 573-751-1300
Fax: 573-526-6802
Email: TMDL@dnr.mo.gov
Program Home Page: dnr.mo.gov/env/wpp/index.html

Map of the Little Beaver Creek watershed

