



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Total Maximum Daily Load Information Sheet

Lamine River

Water Body ID: 0847

Water Body Segment at a Glance:

Counties: Morgan/Cooper
Nearby Cities: Sedalia
Length: 64 miles
Pollutant: *E. coli* bacteria
Source: Rural Nonpoint Source



State Map Showing Location of Watershed

Scheduled 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

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. The Lamine River is impaired due to exceedances of water quality criteria that protect recreational uses.

Designated uses of the Lamine River*

- 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).

Use that is impaired

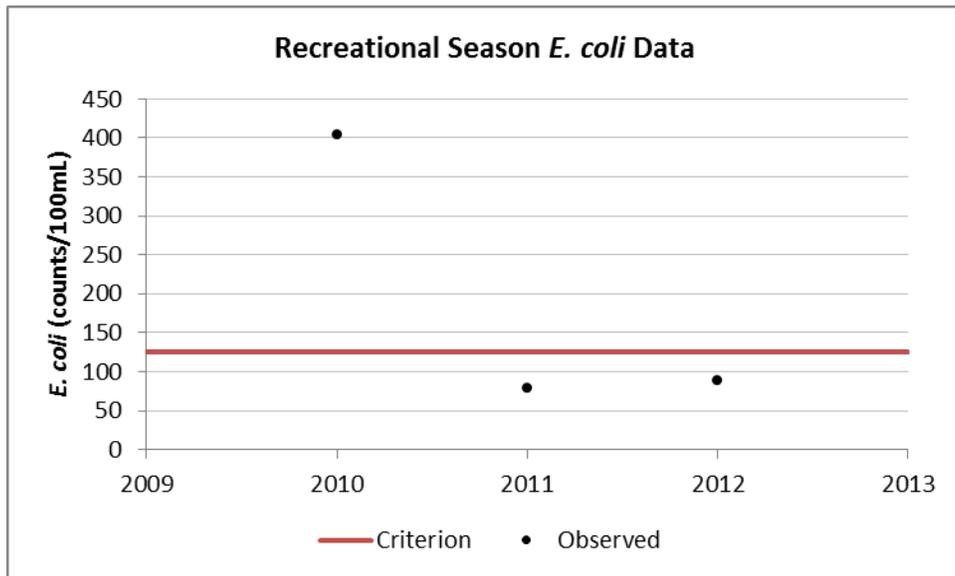
Whole Body Contact Recreation Category A (WBC-A)

Criteria that apply

- Missouri’s Water Quality Standards at 10 CSR 20-7.031(5)(C) and Table A state that for Category A waters, the *E. coli* bacteria count, measured as a geometric mean, shall not exceed 126 colonies per 100 milliliters of water (126 col/100 mL) This criterion is applicable only during the recreational season, which is defined in the Water Quality Standards as being from April 1 through October 31.

Assessment and water quality data

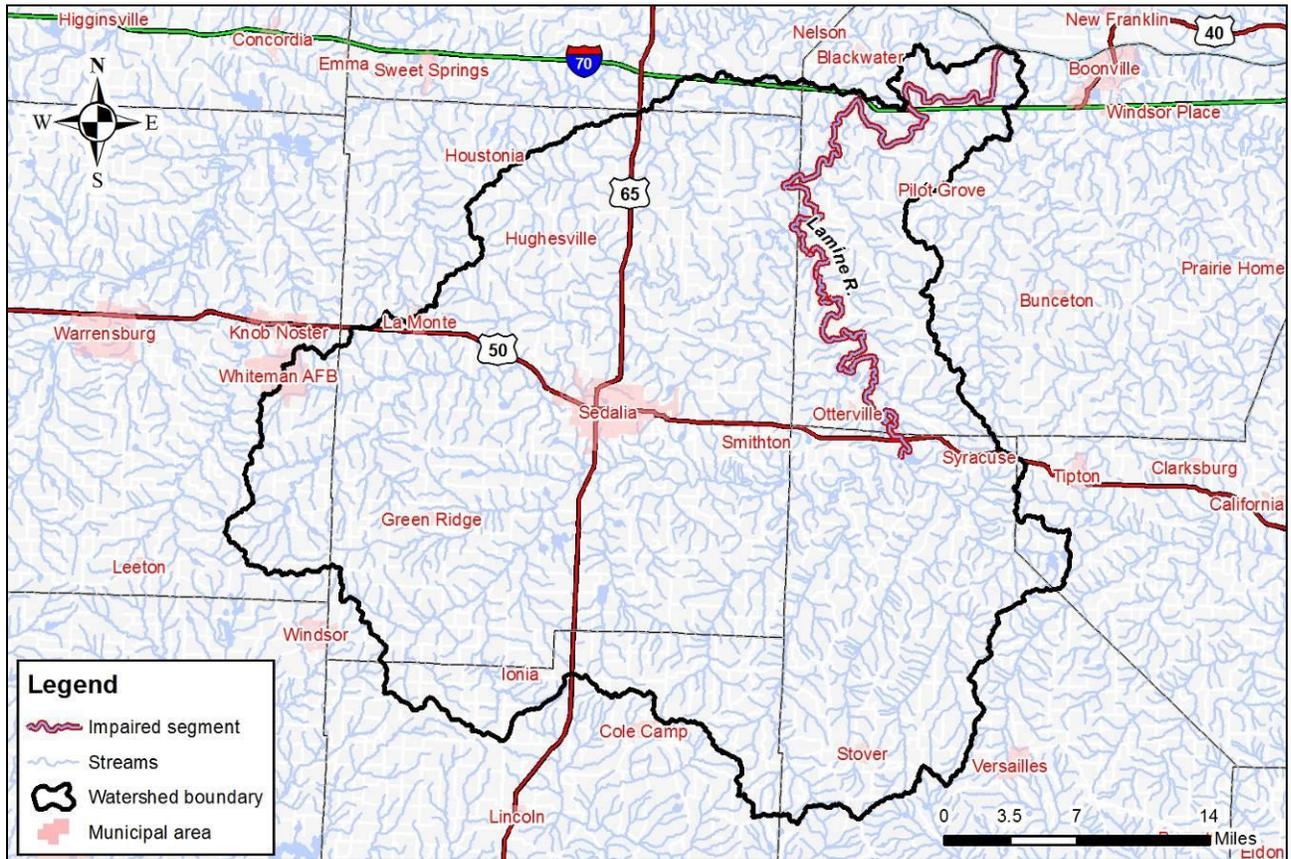
High counts of *E. coli* bacteria in surface waters is an indication of fecal contamination. *E. coli*, are bacteria found in the intestines of warm blooded animals and are used as indicators of the risk of waterborne disease from pathogenic bacteria or viruses. Infections due to pathogen-contaminated waters include gastrointestinal, respiratory, eye, ear, nose, throat and skin diseases. A water body is considered impaired by *E. coli* when the criterion is exceeded in any of the last three years for which there is a minimum of five samples collected during the recreational season. For the Lamine River, the whole body contact category A criterion was exceeded in 2010.



TMDL for the Lamine River

The Lamine River 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 Lamine River 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.

Map of the Lamine River Watershed



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