

**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

## Total Maximum Daily Load Information Sheet

### South Grand River

Water Body ID: 1249

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#### Water Body Segment at a Glance:

**Counties:** Cass/Henry  
**Nearby City:** Clinton  
**Length:** 66.8 miles  
**Pollutant:** *E. coli* bacteria  
**Source:** Rural nonpoint sources



#### 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](http://dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm).

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### 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 South Grand River is impaired due to exceedances of water quality criteria that protect recreational uses.

#### Designated uses of the South Grand River\*

- Warm Water Habitat (WWH)
- Whole Body Contact Recreation Category B (WBC-B)
- 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

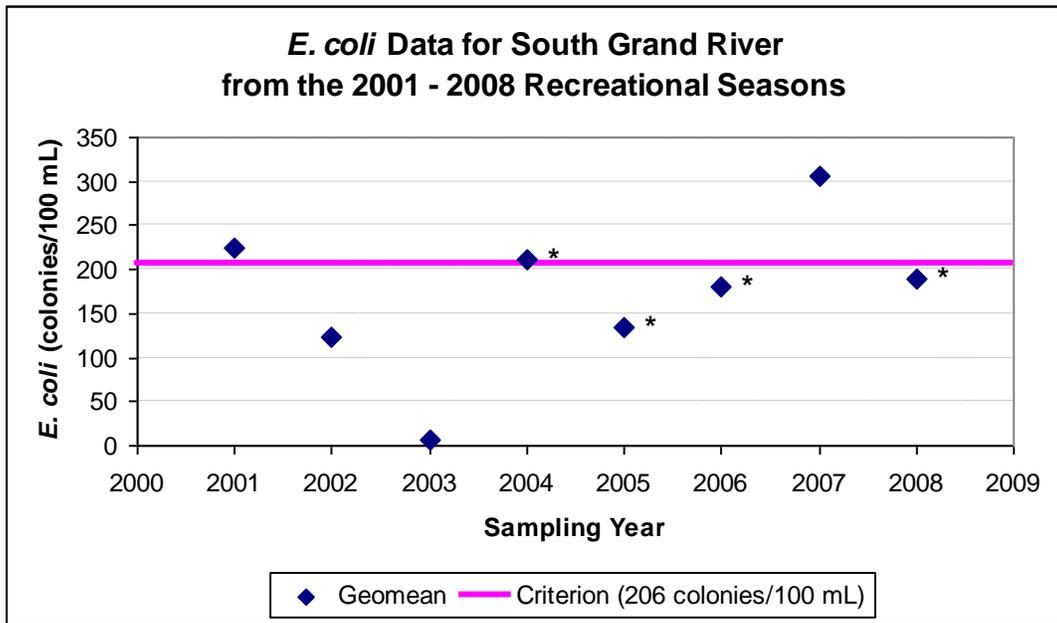
- Whole Body Contact Recreation Category B (WBC-B)

**Criteria that apply**

- Missouri’s Water Quality Standards at 10 CSR 20-7.031(5)(C) and Table A state that for category B waters, the *E. coli* bacteria count shall not exceed 206 per 100 milliliters of water. This count is the geometric mean during the recreational season (April 1- October 31).

**Background information and water quality data**

Hi counts of *E. coli* bacteria are 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. The department judges a stream to be impaired by *E. coli* if the criterion is exceeded in any of the last three years for which there is a minimum of five samples. Sufficient recreational season data was available in 2002, 2003 and 2007. The criterion was exceeded in 2007.

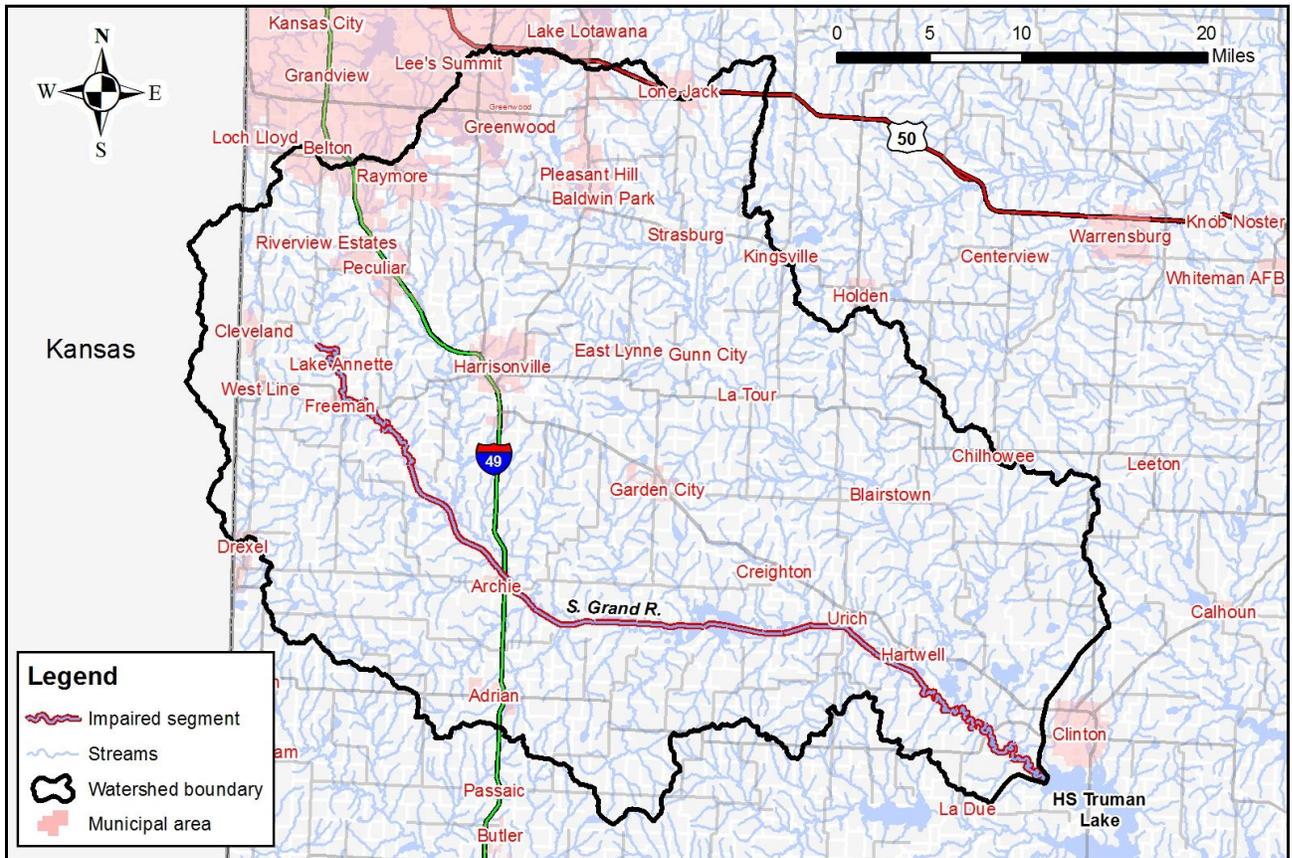


\* Geomean calculated using fewer than five (5) samples.

**TMDL for the South Grand River**

The South Grand 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 South Grand 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 South Grand River watershed



**For more information call or write:**  
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