

Missouri Department of Natural Resources

Total Maximum Daily Load Information Sheet

Cinque Hommes Creek

Water Body Segment at a Glance:

County:	Perry
Nearby City:	Perryville
Water Body ID:	1781
Segment Length:	17.1 miles
Watershed Size:	70.7 square miles
Pollutant:	Bacteria
Source:	Rural nonpoint sources



Statewide Map Showing Location of Watershed

Scheduled for TMDL development: 2020

Description of the Problem

Designated beneficial uses of Cinque Hommes Creek

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health (Fish Consumption)
- Whole Body Contact Recreation – Category B

Uses that are impaired

- Whole Body Contact Recreation – Category B

Standards that apply

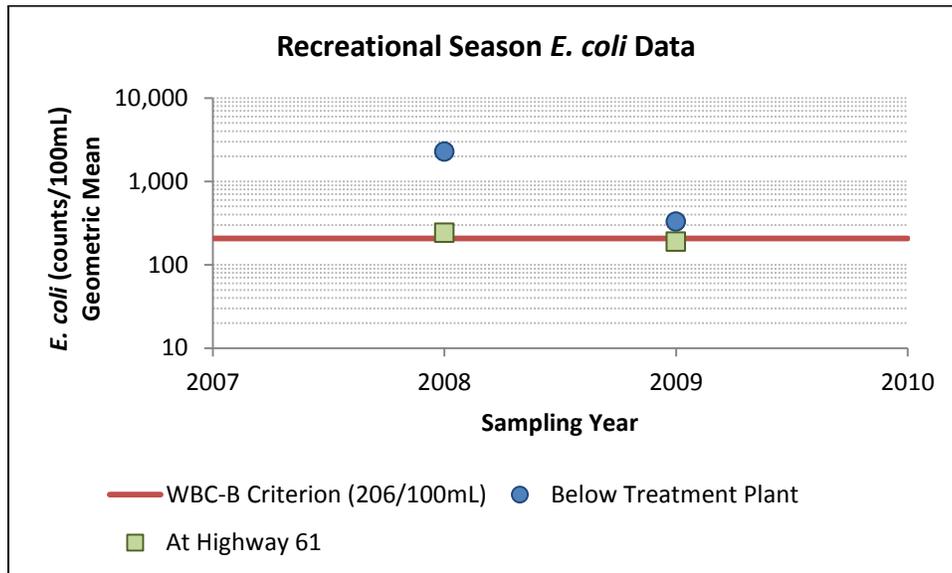
- Missouri's Water Quality Standards at 10 CSR 20-7.031(4)(C) states that for waters designated for whole body contact recreation category B, the *E. coli* bacteria count, measured as a geometric mean, shall not exceed 206 colonies per 100 milliliters of water during the recreational season. The recreational season is defined as being from April 1 to October 31.

Background information and water quality data

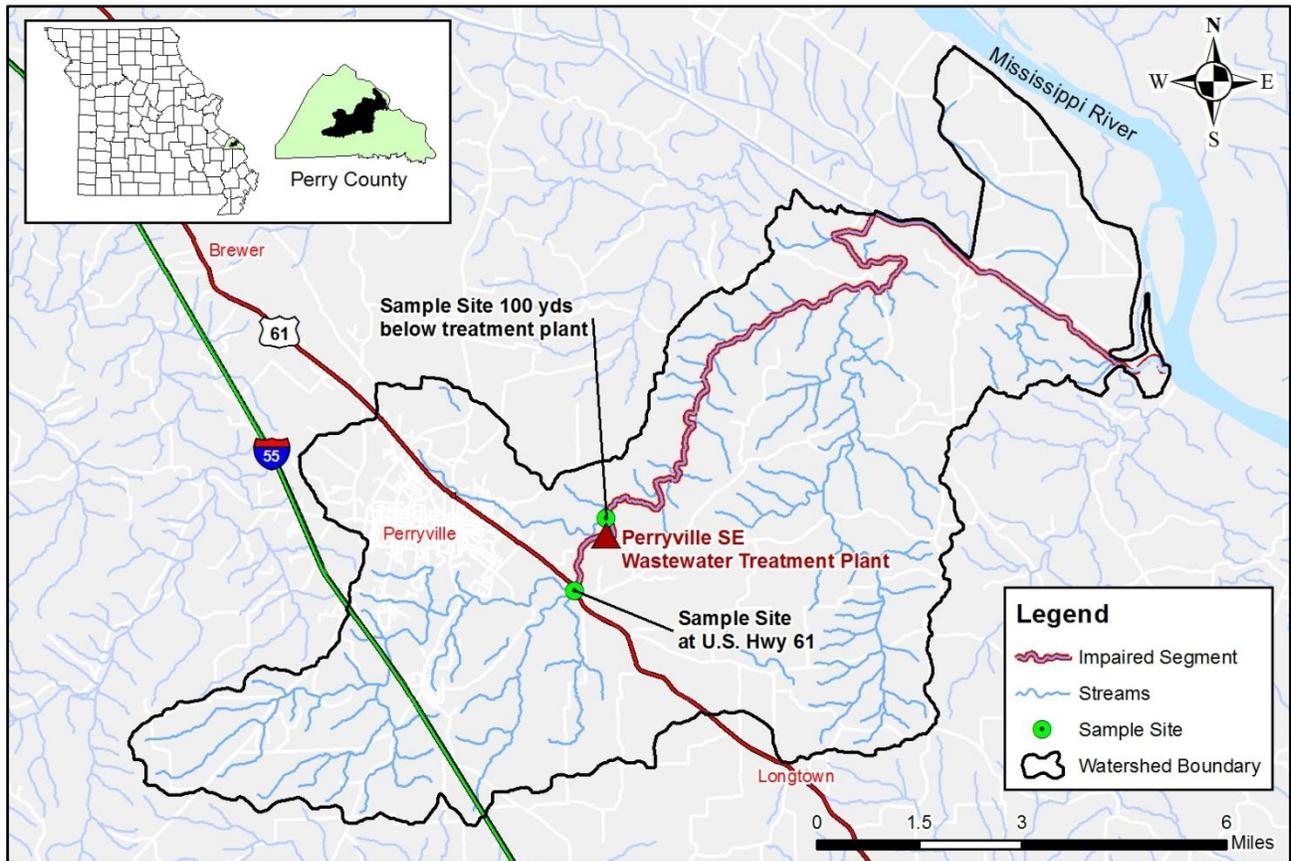
Cinque Hommes Creek is a tributary of the Mississippi River in Perry County. The stream is designated as category B for the whole body contact recreation use. Cinque Hommes Creek was first listed as impaired by bacteria on the state's 2012 303(d) List of impaired waters, which was approved in whole by the U.S. Environmental Protection Agency on Nov. 13, 2012.

The department judges a stream to be impaired by bacteria if the water quality criterion for *E. coli* is exceeded in any of the last three years for which there is adequate data (minimum of five samples taken during the recreational season). High counts of *E. coli* are an indication of fecal contamination and an increased risk of pathogen-induced illness to humans. *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 (disease causing) bacteria or viruses. Missouri's whole body contact bacteria criteria are based on specific levels of risk of acute gastrointestinal illness. The level of risk correlating to the category B criterion is no more than 10 illnesses per 1,000 swimmers in fresh water (1 percent).

E. coli bacteria data for Cinque Hommes Creek were collected from two sites in 2008 and 2009. The recreational season geometric mean of these data exceeded the whole body contact category B criterion in 2008 and 2009 from the site located 100 yards below the Perryville wastewater treatment plan. The data from the second site, located at the U.S. Highway 61 stream crossing, violated water quality standards in 2008. For these reasons, Cinque Hommes Creek has been assessed as impaired by *E. coli* and was included on the 2012 303(d) List of impaired waters.



Map Showing the Cinque Hommes Creek Watershed



For more information call or write:

Missouri Department of Natural Resources

Water Protection Program

P.O. Box 176, Jefferson City, MO 65102-0176

1-800-361-4827 or 573-751-1300 office

573-526-6802 fax

Program Home Page: dnr.mo.gov/env/wpp/index.html

NOTE:

The final Cinque Hommes Creek TMDL will use the most recent and available data and information.