

Missouri Department of Natural Resources

## Total Maximum Daily Load Information Sheet

### Bass Creek

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#### Water Body Segment at a Glance:

<b>County:</b>	Boone
<b>Nearby City:</b>	Ashland
<b>Water Body ID:</b>	752
<b>Impaired Length:</b>	4.4 miles
<b>Watershed Size:</b>	12.3 square miles
<b>Pollutant:</b>	Bacteria
<b>Source:</b>	Unknown



State Map Showing Location of Watershed

**Scheduled for TMDL development:** 2016

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#### Description of the Problem

##### Designated beneficial uses of Bass Creek

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

##### Uses that are impaired

- Whole Body Contact Recreation – Category A

##### 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 A, the *E. coli* bacteria count, measured as a geometric mean, shall not exceed 126 colonies per 100 milliliters of water during the recreational season. The recreational season is defined as being from April 1 to October 31.

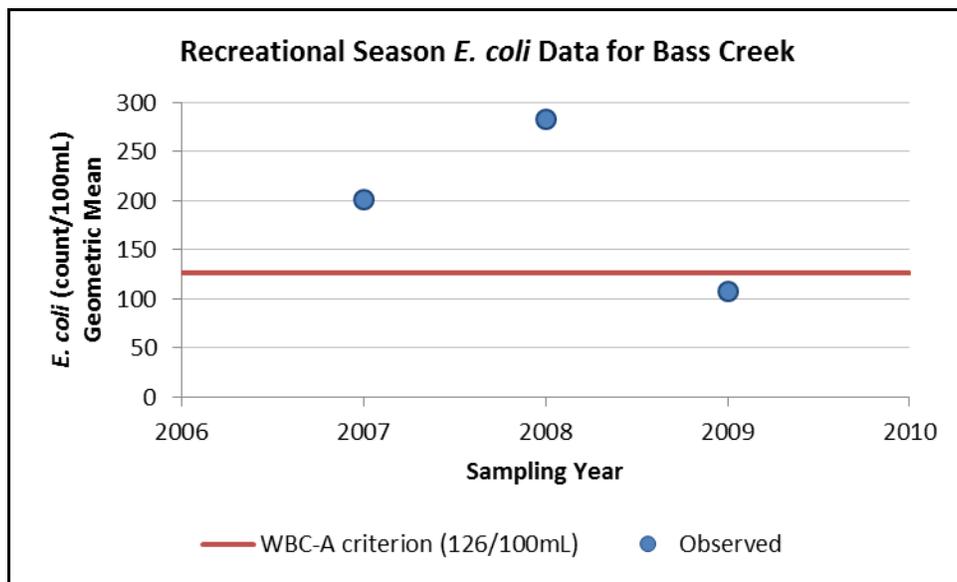
##### Background information and water quality data

Bass Creek is a small tributary of Turkey Creek in Boone County northeast of Ashland. The stream is designated as category A for the whole body contact recreation use. Category A applies to waters that have been established by the property owner as public swimming areas allowing full and free access by the public for swimming purposes and waters with existing whole body contact recreational uses. Bass Creek was first listed as impaired by bacteria on the state's 2012 303(d) List

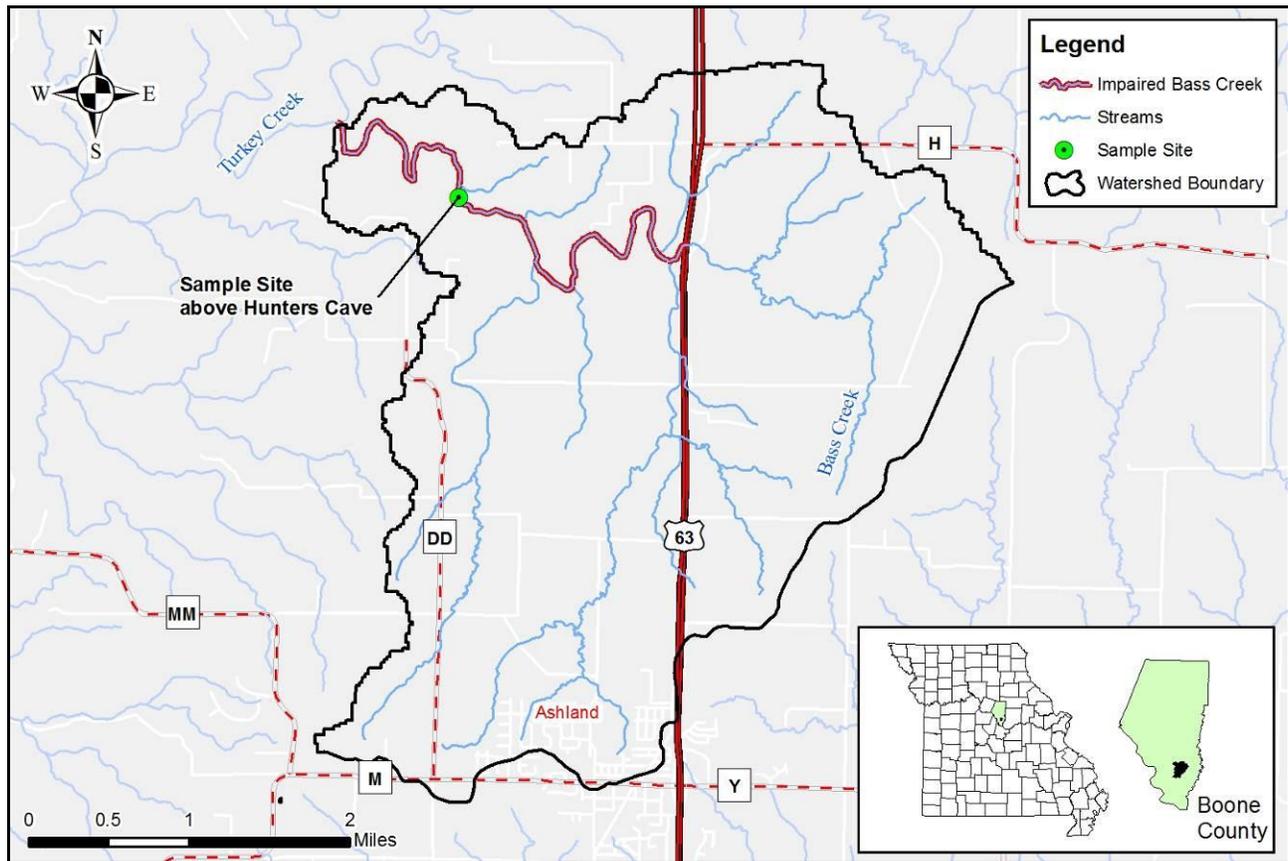
of impaired waters, which was approved in whole by the U.S. Environmental Protection Agency on Nov. 13, 2012.

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 A criterion is no more than 8 illnesses per 1,000 swimmers in fresh water (0.8 percent).

*E. coli* bacteria data for Bass Creek were collected in 2007, 2008 and 2009. The recreational season geometric mean of these data exceeded the whole body contact category A criterion in 2008. For this reason, Bass Creek was assessed as impaired by *E. coli*.



## Map Showing the Bass Creek Watershed and Sample Site



**For more information call or write:**

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Water Protection Program

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NOTE: The final Bass Creek TMDL will use the most recent, available data and information.