

Missouri Department of Natural Resources

## Total Maximum Daily Load Information Sheet

### Wallace State Park Lake (Lake Allaman)

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#### Water Body Segment at a Glance:

**County:** Clinton  
**Nearby Cities:** Cameron, Turney  
**Area of impairment:** 6 Acres  
**Pollutant:** Fecal Coliform bacteria  
**Source:** Unknown  
**Water Body ID:** 7453



**Added to the 303(d) List in 2002. Since then, fecal coliform data indicate the designated use is being supported. Therefore, this lake was removed from the 2004-06 303(d) List.**

**TMDL Priority Ranking:** Delisted Sept. 27, 2007

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#### Description of the Problem

##### Designated beneficial uses of Wallace State Park Lake:

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

##### Use that is impaired

- None

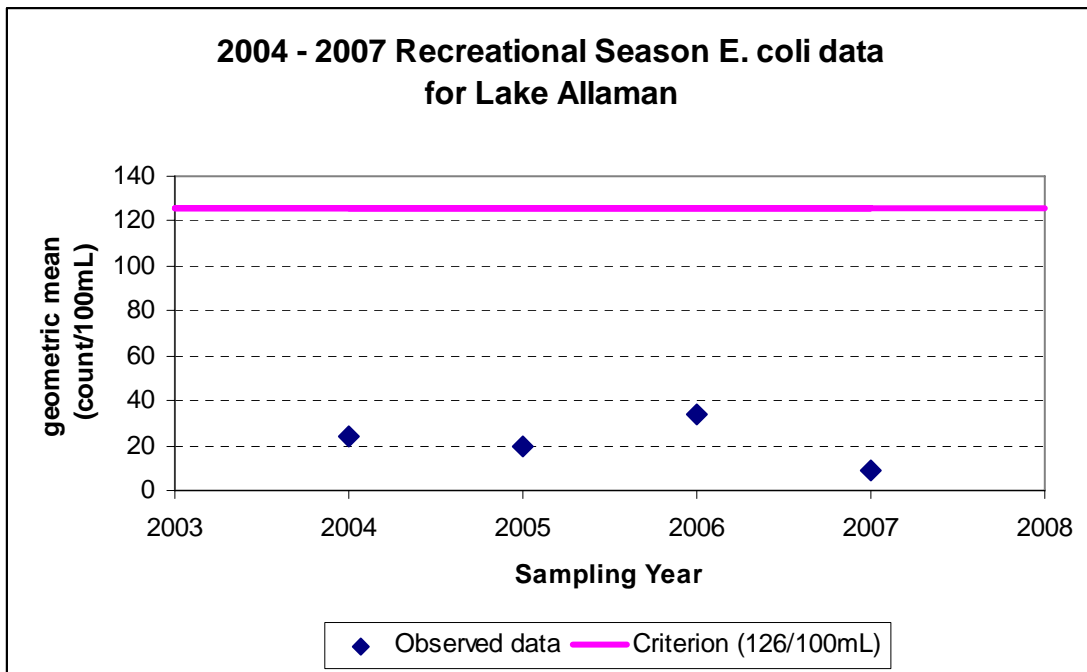
##### Standards that apply

- This lake was listed under Missouri's Water Quality Standards, 10 CSR20-7.031 (4)(C), that required that fecal coliform bacteria levels in waters protected for swimming shall not exceed 200 bacterial counts/100 milliliters (mL) of water during the recreational season (April 1 through October 31). Federal guidelines also suggest rating waters as impaired if more than 10 percent of all samples exceed 400 bacterial counts/100 ml or if there are any closures of swimming areas due to high bacteria levels.
- The current bacteria criterion, effective Oct. 30, 2009, state that the *E. coli* bacteria levels shall not exceed 126 counts /100 mL) for Category A and 206 count/100 mL for Category B waters. This count is the geometric mean during the recreational season (April 1- October 31) in waters designated for whole body contact recreation and must include no fewer than five samples.

### Background information and water quality data

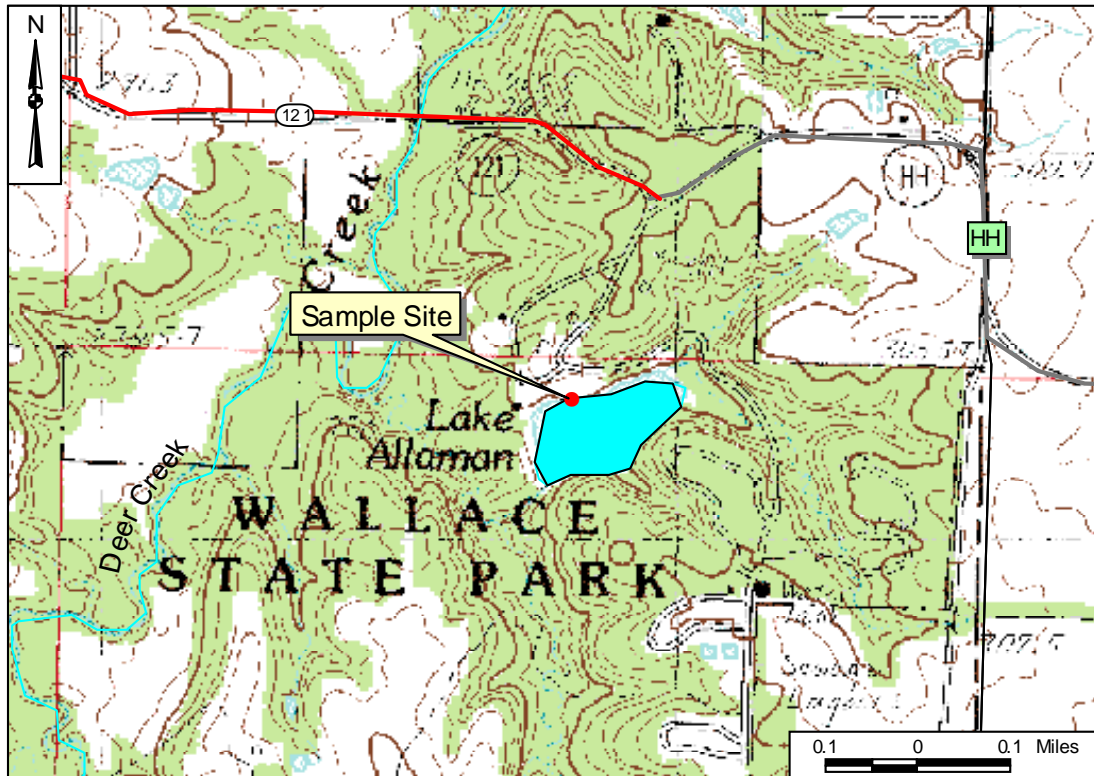
Wallace State Park Lake is monitored weekly during the summer for fecal coliform bacteria. During 1999, the seasonal geometric mean fecal coliform level was 18 counts/100 ml and there were no swimming area closures. However in 2000, the geometric mean fecal coliform level was 207 counts/100 ml and there were two swimming area closures of one week's duration each. The source of the bacterial contamination was unknown, but rural nonpoint stormwater runoff and use of the lake by waterfowl are suspected to be the major causes.

Wallace State Park Lake, also known as Allaman Lake, has the beneficial use of Whole Body Contact Recreation, Category A. Category A means there are swimming areas which are open to and fully accessible by the public. In 2009, new bacteria criteria went into effect. For Category A, the criterion for *E. coli* is 126 counts/100 ml, expressed as a geometric mean during the recreational season, April 1 through October 31. In anticipation of the new criteria, *E. coli* data were collected from 2004 through 2007. In that time, the geometric mean *E. coli* levels have ranged between 9 and 32 counts/100 ml, well below the criterion (see graph of data below). Thus, this lake is judged to be unimpaired by bacteria and was subsequently removed from the 2004-06 303(d) List, effective Sept. 27, 2007.



There is a map of the lake with the sampling site on the next page.

## Map of Lake Allaman in Wallace State Park, Clinton County Showing Sampling Site



**For more information call or write:**

Missouri Department of Natural Resources

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