



Missouri Department of Natural Resources

Total Maximum Daily Load Information Sheet

East Fork Black River

Water Body Segment at a Glance:

County:	Reynolds
Nearby Cities:	Lesterville
Length of impaired segment:	17 miles
Length of impairment within segment:	0.2 mile
Pollutant:	Hydromodification
Source:	Impoundment
Water Body ID:	2737



State Map Showing Location of Watershed

Scheduled for TMDL development: No TMDL needed.

Water body was removed from the 2010 303(d) List. Water body moved from category 5 (impaired) to category 4C (nonattainment of water quality standards is not due to a discrete pollutant). The Environmental Protection Agency approved this change on Oct. 6, 2011.

Description of the Problem

Beneficial uses of East Fork Black River

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

Use that is impaired

- Protection of Warm Water Aquatic Life
- General Criteria

Standards that apply

Because the East Fork of the Black River is impaired by hydromodification, specific criteria cannot be cited. However, all Missouri streams are protected by the general criteria found in the Water Quality Standards at 10 CSR 20-7.031 (3). The general criterion that could apply to East Fork of the Black River state:

(G) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community.

Background information and water quality data

The failure of the dam on the Upper Taum Sauk Reservoir in Dec. 2005 caused a huge flow of water and debris that entered the East Fork Black River approximately 0.8 miles upstream of the shut-ins in Johnson Shut-Ins State Park. The department monitored invertebrate populations in 2005 (pre-dam failure) and post-failure in 2006-2008. At a site just below the Lower Taum Sauk dam, six of seven samples show the invertebrate community is impaired, including prior to failure and in the fall 2008 samples, while all other sites show a normal invertebrate community.

The 303(d) List is Category 5 of the state's water quality report. The river was placed on the 303(d) List in 2008 by the U.S. Environmental Protection Agency; however, the department proposes to place it in Category 4c. Category 4c means that a water body is impaired, but no TMDL can be written because it is impaired by pollution (a condition), not a specific, discrete pollutant. A TMDL is a numerical calculation and a condition typically cannot be reduced to numbers. The impairment of East Fork Black River will be corrected by some means other than a TMDL.

For more information call or write:

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