

Public Abstract

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Title:DISINFECTION BY-PRODUCT PRECURSORS AND FORMATION POTENTIALS OF MISSOURI RESERVOIRS

Dissolved organic carbon (DOC) in surface waters affects the formation of halogenated disinfection by-products (DBP) in drinking water. Both the quality and quantity of DOC impact DBP formation. The source of DOC in reservoirs can be internal or external and our goal was to identify the source of the DBP precursor pool in Missouri reservoirs. Samples were collected from 76 reservoirs spanning a 12 month period from January 2004 through December 2004. Our results indicate that watershed hydrology (external inputs) instead of algal productivity (internal inputs) controlled the DBP precursor pool in Missouri reservoirs in 2004.