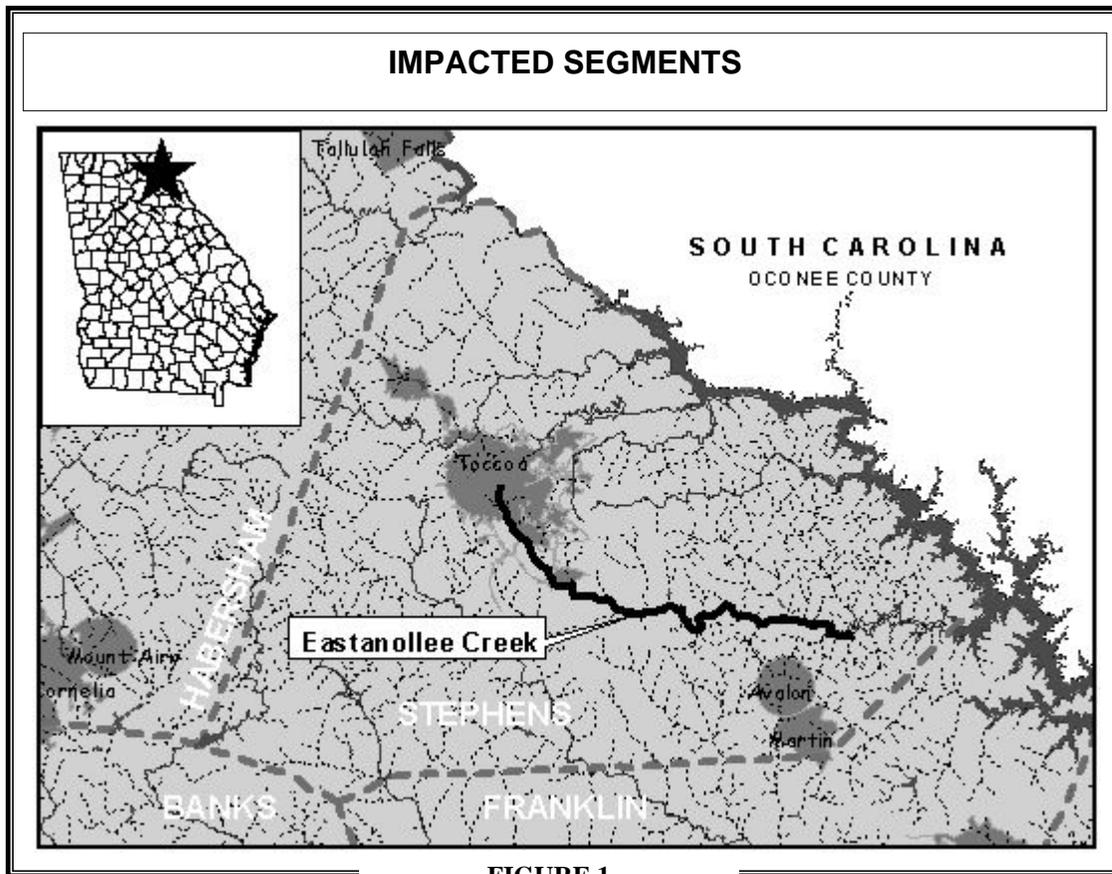


**STATE OF GEORGIA
TMDL IMPLEMENTATION PLAN**

**For Copper in Eastanollee Creek
Savannah River Basin**

Prepared by
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Environmental Protection Division
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TMDL Implementation Plans are platforms for establishing a course of actions to restore the quality of impaired water bodies in a watershed. They are intended as a continuing process that may be revised as new conditions and information warrant. Procedures will be developed to track and evaluate the implementation of the management practices and activities identified in the plans. Once restored, appropriate management practices and activities will be continued to maintain the water bodies. The overall goal of the Plan is to define a set of actions that will help achieve water quality standards in the state of Georgia.



Impaired Waterbody Name	Location	Miles/Area Impacted	River Basin
1. Eastanollee Creek	Toccoa to Lake Hartwell	14	Savannah

INTRODUCTION

Georgia's final 2002 Section 303(d) list identified Eastanollee Creek as not supporting its designated use due to copper. This listing was based on older data taken using non-clean sampling methods. A Total Maximum Daily Load (TMDL) for copper in Eastanollee Creek was calculated and released in February 2000.

DISCUSSION OF POLLUTANT

Copper is a naturally occurring element that is found in various compounds with other elements. The metallic form of copper has a number of common uses ranging from water pipes, coinage, and electrical wiring & components. Copper salts such as copper sulphate are used in agriculture as a fungicide.

WATERBODIES COVERED IN THIS PLAN

On the 2000 Section 303(d) list, the state of Georgia included Eastanollee Creek from the headwaters in Toccoa to Lake Hartwell for an approximate total of 14 miles. The TMDL, Wasteload Allocation (WLA) and future Load Allocation (LA) are as follows:

TMDL=.5kg/ day
WLA=.084kg/ day
LA=.416kg/ day

POLLUTANT SOURCE(S)

Two point sources of copper exist in the Eastanollee watershed. The Coats American facility (NPDES #GA0002038) and the City of Toccoa WPCP (NPDES #0021814) discharge permits were updated based on the TMDL. The Coats American permit is currently under appeal, however, the company has stated that it will accept a revised copper limit of 0.15mg/l which is below their site-specific NPDES permit limit. In addition, the permit requires quarterly monitoring of copper from the discharge point.

PLAN FOR IMPLEMENTATION OF TMDL/ MONITORING PLAN

The State of Georgia will continue to provide guidance and education to the public on water quality issues through outreach by the Water Protection Branch. In addition, improved treatment and lower permitted levels of copper discharge have reduced the copper load in the watershed. Future permitted discharges will be based on the TMDL calculated for Eastanollee Creek.

REFERENCES

Agency for Toxic Substances and Disease Registry, 1999. *Copper CAS # 7440-50-8.*