

STATE OF GEORGIA TMDL IMPLEMENTATION PLAN

Toxicity

Prepared by
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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.

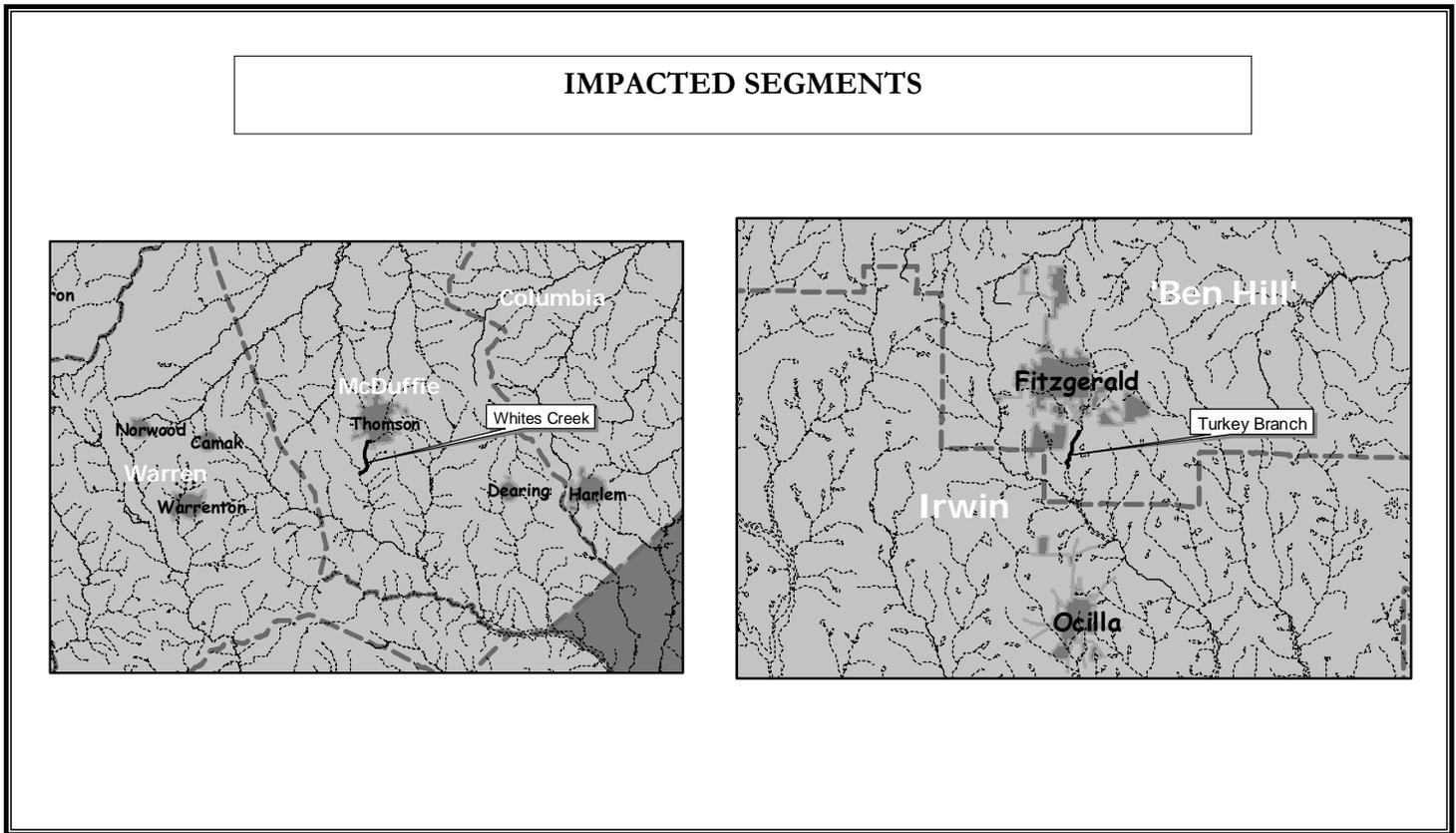


FIGURE 1

Impaired Waterbody*	Impaired Stream Location	River Basin
1. Whites Creek	Downstream Thompson WPCP	Savannah
2. Turkey Branch	Headwaters to Withlacoochee River downstream Fitzgerald WPCP	Suwannee

TMDL IMPLEMENTATION PLAN FOR TURKEY BRANCH

INTRODUCTION

Turkey Branch is located in the Suwannee River Basin in Ben Hill County near the City of Fitzgerald.

Turkey Branch is on the 303(d) list for toxicity. Whole effluent toxicity (WET) tests conducted on the Fitzgerald WPCP (NPDES permit # GA0047236) discharge predicting that the effluent would be chronically toxic at 7Q10 low flow conditions. There are no known potential non-point source contributors to the predicted toxicity in Turkey Branch.

PLAN FOR TMDL IMPLEMENTATION

A WET limit of no observable effect concentration (NOEC) = 100% was placed in the City of Fitzgerald's NPDES permit on 6/15/1999 with a schedule to meet the limit by 6/15/2002. The facility has been meeting the WET limit since 09/2000.

MONITORING PLAN

The NPDES permit requires annual WET testing.

TMDL IMPLEMENTATION PLAN FOR WHITES CREEK

INTRODUCTION

Whites Creek is located in the Savannah River Basin in McDuffie County near the city of Thomson.

Whites Creek is on the 303(d) list for toxicity with the potential cause of the impairment being identified as the City of Thomson Water Pollution Control Plant (WPCP), NPDES Permit # GA0020974. Whole effluent toxicity (WET) testing conducted on the Thompson WPCP effluent from 1996 to July 1999 indicates intermittent acute and chronic toxicity. The cause of the toxicity has not been identified.

PLAN FOR TMDL IMPLEMENTATION

A WET limit of no observable effect concentration (NOEC) = 100% was placed in the NPDES permit on 5/17/1996. The city is currently under a State of Georgia consent order (Consent Order No. EPD-WQ-3271-1) to meet its permitted WET limit of NOEC = 100% by 5/17/1999. Experimentation with artificial wetlands to remove the toxicity was unsuccessful so the city is paying a stipulated penalty of \$1000 per month for failure to meet this limit. The city is continuing efforts to determine the source of the toxicity.

MONITORING PLAN

The NPDES permit requires annual WET testing.