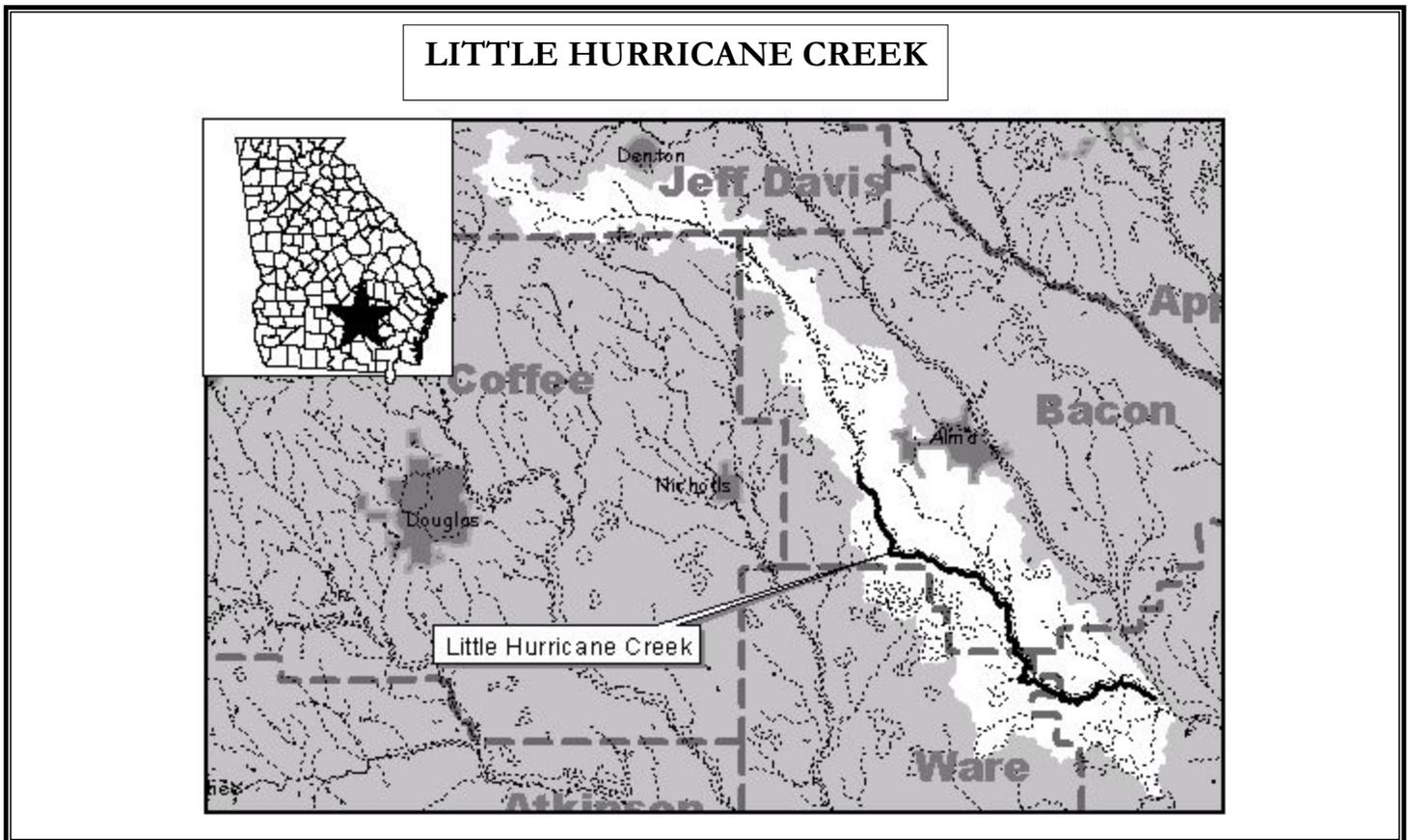


**STATE OF GEORGIA  
TMDL IMPLEMENTATION PLAN**

**LITTLE HURRICANE CREEK  
(Fecal Coliform)**

Prepared by  
**The Georgia Department of Natural Resources  
Environmental Protection Division  
Atlanta, GA**

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. This plan was originally prepared as an implementation inventory by the Southeast Georgia RDC with a Section 604(b) Grant. TMDL load allocation information has been updated to reflect the approved TMDL.



<b>Impaired Waterbody*</b>	<b>Impaired Stream Location</b>	<b>River Basin</b>	<b>Miles/Area Impacted</b>	<b>Partially Supporting/ Not Supporting</b>
Little Hurricane Creek	Tributary to Alabaha River Bacon and Pierce Counties	Satilla	22 miles	Not Supporting

# **TMDL IMPLEMENTATION PLAN LITTLE HURRICANE CREEK, BACON & PIERCE COUNTIES, GEORGIA**

The Little Hurricane Creek in Bacon and Pierce Counties, Georgia has a fishing water use classification and is currently listed as an impaired water body. The degree of impairment is classified as a partially supporting use and the TMDL for the Little Hurricane Creek is set at a target level of 150 cfu/100 ml of water, a level that will allow the water body to achieve water quality standards necessary for the fishing use classification.

A Total Maximum Daily Load (TMDL) is a calculation of the maximum amount of a pollutant, from both point and non-point sources, that a water body can receive and still meet water quality standards. The Clean Water Act, section 303, establishes the water quality standards and the TMDL's. The 303(d) list is an inventory of impaired streams and water bodies. Although some TMDL's are aimed at managing all sources of pollution which affect beneficial uses of water, the focus of this implementation plan relates primarily to nonpoint sources. The purpose of this plan is to provide a framework of goals, objectives, and strategies for reducing or eliminating the pollutants contained in the runoff into the Little Hurricane Creek.

The Southeast Georgia Regional Development Center's planning staff has guided the process of developing the TMDL Implementation Plan for the Little Hurricane Creek. The process began with a meeting of a small stakeholder committee comprised of representatives from Pierce and Bacon Counties, the Pierce County Planning Commission, the Pierce County Development Authority, and the Bacon County Development Authority. The individuals who made up the committee were already knowledgeable about TMDL's and the need for an implementation plan. It was almost immediately agreed upon that private septic systems and small but numerous agricultural operations were a potential source of fecal coliform in the water body in question.

The decision was reached that the implementation plan should primarily focus on monitoring, specifically of the areas in proximity to the highest concentrations of private septic systems and agricultural operations. Education is another vitally important element of the plan. The Counties also intend to reexamine and possibly improve existing buffer regulations.

STATE OF GEORGIA  
 TMDL IMPLEMENTATION PLAN FOR: Little Hurricane Creek  
 (STREAM)

Fecal Coliform  
 (PARAMETER)

RIVER BASIN: Satilla  
 PLAN DATE: September 30, 2001

Prepared by: Southeast Georgia Regional Development Center Address: 3395 Harris Road City: Waycross State: Georgia Zip: 31503 e-mail: <a href="mailto:bdhsegardc@accessatc.net">bdhsegardc@accessatc.net</a>  Date Submitted to EPD: 3/15/2001		Or Prepared By: _____ Address: _____ City: _____ State: _____ Zip: _____ e-mail: _____ Date Submitted to EPD: _____					
General Information  Obtain this information from the TMDL document or other information. When completed, this document will be a self-contained report independent of the TMDL document.		Significant Stakeholders  Identify local governments, agricultural organizations or significant land holders, commercial forestry organizations, businesses and industries, and local organizations including environmental groups with a major interest in this water body.					
TMDL ID (to be entered by EPD)	SAT0000009	Name/Organization	Bacon County				
Water body name	Little Hurricane Creek	Address	P.O. Box 356				
HUC basin name	Satilla River	City	Alma	State	GA	Zip	31510
HUC number	03070201	Phone	(912) 632-5214		e-mail		
Primary county	Bacon	Name/Organization	Pierce County				
Secondary county	Pierce	Address	P.O. Box 679				
Primary RDC	Southeast Georgia	City	Blackshear	State	GA	Zip	31516
Secondary RDC	None	Phone	(912) 449-2022		e-mail		
Water body location	Tributary to Alabaha River	Name/Organization	Bacon County Development Authority				
	Bacon and Pierce Counties	Address	P.O. Box 450				
Miles or area impacted	22 miles	City	Alma	State	GA	Zip	31510
Parameter addressed in plan	Fecal coliform	Phone	(912)283-7787		e-mail		
Water use classification	Fishing	Name/Organization	Pierce County Development Authority				
Degree of impairment	Partially supporting use	Address	P.O. Box 137				
	Not supporting use <b>X</b>	City	Blackshear	State	GA	Zip	31516
Date TMDL approved by EPA	June 2000	Phone	(912)283-3742		e-mail		
Impairment due to	Point sources	Name/Organization	Pierce County Planning Commission				
	Nonpoint sources <b>X</b>	Address	114 Strickland Avenue				
	Both	City	Blackshear	State	GA	Zip	31516
Point source-Form A; Nonpoint source-Form B; Both-Form A+B+C		Phone	(912) 449-2037		e-mail		

If more, add to comments on last page.

FORM B

SUMMARY OF ALLOCATION MODEL RESULTS FROM TMDL DOCUMENT (existing load, target TMDL, and needed reduction)

EXISTING LOAD	ALLOCATED LOAD	PERCENT REDUCTION
9.35 X 10 <sup>12</sup>	3.89 X 10 <sup>12</sup>	42%

I. IDENTIFY **NONPOINT SOURCE** CATEGORIES AND SUBCATEGORIES OR INDIVIDUAL SOURCES WHICH MUST BE CONTROLLED TO IMPLEMENT LOAD ALLOCATIONS:

List major nonpoint sources contributing to impairment including those identified in TMDL document.

SOURCE	DESCRIPTION OF CONTRIBUTION TO IMPAIRMENT	RECOMMENDED LOAD REDUCTION (FROM TMDL)
Animal Agriculture	Several parcels contain pigs, chickens, cows, etc.	50%
Septic Tanks	Older septic tanks often malfunction; when tanks are pumped out, sewage could be spilled or illegally dumped.	90%
Residential Development (Pets)	Many residents have one or more non-agricultural animals on their property that could contribute to the fecal coliform levels in the canal.	90%

II. DESCRIBE ANY REGULATORY OR VOLUNTARY ACTIONS INCLUDING MANAGEMENT MEASURES OR OTHER CONTROLS BY GOVERNMENTS OR INDIVIDUALS THAT SPECIFICALLY APPLY TO THE POLLUTANT AND THE WATERBODY FOR WHICH THE TMDL WAS WRITTEN, THAT WILL BE ACCOMPLISHED THROUGH RELIABLE AND EFFECTIVE DELIVERY MECHANISMS, AND THAT WILL HELP ACHIEVE THE LOAD ALLOCATIONS IN THE TMDL:

See the attachment for more instructions.

Existing or required regulatory actions

<b>RESPONSIBLE GOVERNMENT, ORGANIZATION OR ENTITY</b>	<b>NAME OF REGULATION/ORDINANCE</b>	<b>DESCRIPTION</b>	<b>ENACTED OR PROJECTED DATE (mm/yy)</b>	<b>STATUS</b>
Bacon County	Soil Erosion & Sedimentation Plan	State model ordinance adopted by Bacon County Commission – BMP's.	6/93	Active
Bacon County	Septic Tank Ordinance	Requires permit for new septic tanks.	6/74	Active
Pierce County	Soil Erosion & Sedimentation Plan	State model ordinance adopted by Pierce County Commission – BMP's.	7/93	Active
Pierce County	Septic Tank Ordinance	Requires permit for new septic tanks.	8/86	Active

Existing voluntary actions

<b>RESPONSIBLE ORGANIZATION OR ENTITY</b>	<b>NAME OF ACTION</b>	<b>DESCRIPTION</b>	<b>ENACTED OR PROJECTED DATE (mm/yy)</b>	<b>STATUS</b>
Bacon County	Land Use Plan	Estimated 20-year future land uses.	6/92	To be updated 6/30/08
Pierce County	Land Use Plan	Estimated 20-year future land uses.	10/91	Update TBA

Additional recommended regulatory or other measures which should be implemented to reduce the loads of the TMDL parameter

ENTITY/ORGANIZATION RESPONSIBLE	NAME OF PROPOSED REGULATION/ORDINANCE/ OTHER	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Bacon & Pierce Counties	Septic Tank Survey	Survey to determine the location, number, and operational status of area septic tanks.	TBA	TBA
Bacon & Pierce Counties	Stormwater Treatment	Retention ponds could be used to separate pollutants from stormwater runoff before entering the canal.	TBA	TBA
Bacon & Pierce Counties School Systems	River Kids Program	A state-approved environmental curriculum for use in schools for education and public service.	TBA	TBA

### III. SCHEDULE FOR IMPLEMENTING MANAGEMENT MEASURES OR OTHER CONTROL ACTIONS:

These must be implemented as expeditiously as practicable within five years of when the implementation plan is accepted by EPA.

IMPLEMENTATION ACTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Form stakeholders group	X				
Organize implementation work with stakeholders and local officials to identify remedial measures and potential funding sources	X				
Identify sources of TMDL parameter		X			
Develop management programs to control runoff including identification and implementation of BMPs (Phase I):					
Agriculture	X	X	X	X	X
Forestry					
Urban					
Mining					
Organize and implement education and outreach programs	X	X			
Detect and eliminate illicit discharges	X	X	X	X	X
Evaluate additional management controls needed	X	X	X	X	X
Monitor and evaluate results	X	X	X	X	X
Reassess TMDL allocations					X
Provide periodic status reports on implementation of remedial activities	X	X	X	X	X
If needed, begin process for Phase II (next 5 years) and subsequent phases				X	X

IV. PROJECTED ATTAINMENT DATE AND BASIS FOR THAT PROJECTION:

The projected attainment date is 10 years from acceptance of the implementation plan by EPA.

V. MEASURABLE MILESTONES:

- Number of management controls and activities already implemented \_\_\_\_\_ 2 \_\_\_\_\_
- Number of management controls and activities proposed in five-year work program \_\_\_\_\_ 11 \_\_\_\_\_
- Number of management controls and activities actually implemented in five-year work period \_\_\_\_\_ (to be completed after 5 years)
- Stream sampled to identify areas of concern See monitoring plan
- Other \_\_\_\_\_ \_\_\_\_\_
- Other \_\_\_\_\_ \_\_\_\_\_

VI. MONITORING PLAN:

Monitoring data that placed stream on 303(d) list will be provided if requested.

Describe previous or current sampling activities or other surveys to detect sources or to measure effectiveness of management measures or other controls.

ORGANIZATION	TIME FRAME	PARAMETERS	PURPOSE	STATUS

Describe any planned or proposed sampling activities or other surveys. (Scheduled EPD sampling can be found in the Basin Planning document.)

<b>ORGANIZATION</b>	<b>TIME FRAME</b>	<b>PARAMETERS</b>	<b>PURPOSE</b>	<b>STATUS</b>
EPD	2003	Multiple	Basin Planning	Ongoing
Southeast Health Unit	2001 until fecal coliform levels meet threshold	Fecal Coliform	To determine success of plan implementation.	Under development

VII. CRITERIA TO DETERMINE WHETHER SUBSTANTIAL PROGRESS IS BEING MADE:

- % concentration or load change (monitoring program)
- Categorical change in classification of the stream (delisting the stream is the goal)
- Regulatory controls or activities installed (ordinances, laws)
- Best management practices installed (agricultural, forestry, urban)

COMMENTS

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