

STATE OF GEORGIA

TMDL IMPLEMENTATION PLAN FOR: Cooleewahee Creek FC
 (STREAM) (PARAMETER)

RIVER BASIN: Flint
 PLAN DATE: _____

Prepared by: <u>South Georgia RDC</u>		Or Prepared By: _____					
<u>Southwest Georgia</u> Regional Development Center		Address: _____					
Address: <u>30 West Broad Street</u>		City: _____ State: _____					
City: <u>Camilla</u> State: <u>GA</u>		Zip: _____ e-mail: _____					
Zip: <u>31730</u> e-mail: <u>www.swgrdc.org</u>		Date Submitted to EPD: _____					
Date Submitted to EPD: <u>09/30/04</u>		Date Submitted to EPD: _____					
General Information		Significant Stakeholders					
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.		Identify local governments, agricultural organizations or significant landholders, 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)		Name/Organization	Mr. Jeff Sinyard, Dougherty County Commission				
Water body name	Cooleewahee Creek	Address	P.O. Box 1827				
HUC basin name	Flint	City	Albany	State	GA	Zip	31702
HUC number	0313000803	Phone	(229) 435-6258			E-mail	
Primary county	Dougherty	Name/Organization	Dougherty County Health Department				
Secondary county	Baker	Address	240 Pine Ave.				
Primary RDC	Southwest Georgia	City	Albany	State	GA	Zip	31702
Secondary RDC	N/A	Phone	(229) 386-8373			E-mail	
Water body location	Piney woods Branch to Flint River near Newton	Name/Organization	Elizabeth Dean, Albany Planning and Development Services				
		Address	P.O.Box 447				
Miles or area impacted	16 miles	City	Albany	State	GA	Zip	31702
Parameter addressed in plan	Fecal Coliform	Phone	(229) 438-3902			E-mail	
Water use classification	Fishing	Name/Organization	NRCS				
Degree of impairment	Partially supporting use <input checked="" type="checkbox"/>	Address	1479-B US 19 South				
	Not supporting use <input type="checkbox"/>	City	Leesburg	State	GA	Zip	31763
Date TMDL approved by EPA		Phone	(229) 883-5597			E-mail	
Impairment due to	Point sources <input type="checkbox"/>	Name/Organization	Baker County Board of Commissioners				
	Nonpoint sources <input checked="" type="checkbox"/>	Address	P.O. Box 607				
	Both <input type="checkbox"/>	City	Newton	State	GA	Zip	39870
Point source-Form A; Nonpoint source-Form B; Both-Form A+B+C		Phone	229-734-3000			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	TARGET TMDL	NEEDED REDUCTION
2.36E+12	1.34E+1	43 %

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

List major non-point sources **potentially** contributing to impairment including those identified in TMDL document.

POTENTIAL SOURCE	DESCRIPTION OF POTENTIAL CONTRIBUTION TO IMPAIRMENT	RECOMMENDED LOAD REDUCTION (FROM TMDL)
Urban Land Uses	Urban Storm Water Run-off	25%
Residential Land Uses	Leaking Septic Tanks, Pet Waste, Leaking Sewer Lines	
Public Land Uses	10.4 % of the land within the watershed is used for pasture or hay while 53 % consists of forest or woody wetlands. Furthermore, 26 % of the watershed is used for row crop agriculture, (the primary source of sediment in the Flint River Basin), while only 1.6 % of watershed territory is given over urban uses. While it is difficult to accurately gauge the number of animals and hence the intensity of pasture use (and, in turn, the extent to which such agricultural operations contribute to the contamination of neighboring watersources), it should be remembered that there are approximately 550 Beef Cattle, 400 Swine, 460 horses, 160018 Chickens (layers) and 4071500 Chickens (Broilers/Sold), within the area under consideration.	
Municipal Uses	NA	

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

RESPONSIBLE GOVERNMENT, ORGANIZATION OR ENTITY	NAME OF REGULATION /ORDINANCE	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Dougherty County Health Dept.	Sanitary Code	Installation of on-site sewerage systems	1970's	In-force
Dougherty County	Zoning Ordinance	Part V: Environmental Standards	2000	In-force
Dougherty County	State of Georgia Soil & Sedimentation Control Act	Construction code to reduce pollutants to navigable waters	1980's	In-force
City of Newton	Zoning Ordinance	Part V: Environmental Standards	2000	In-force
Baker County	State of Georgia Soil & Sedimentation Control Act	Construction code to reduce pollutants to navigable waters	1980's	In-force
Baker County	Local Wetlands Policy Ordinance	Georgia Planning Act Part V: Environmental Criteria. This ordinance regulates development of areas designated as wetlands as defined by the U.S. Army Corps of Engineers as jurisdictional wetlands.	2003	In-force
Baker County	Floodplain Management Ordinance	100 year / 500 year flood levels are shown on FEMA flood maps	Adopted	In-force
City of Newton	Local Wetlands Policy Ordinance	Georgia Planning Act Part V: Environmental Criteria. This ordinance regulates development of areas designated as wetlands as defined by the U.S. Army Corps of Engineers as jurisdictional wetlands.	2003	In-force
City of Newton	Floodplain Management Ordinance	100 year / 500 year flood levels are shown on FEMA flood maps	Adopted	In-force

EXISTING VOLUNTARY ACTIONS

RESPONSIBLE ORGANIZATION OR ENTITY	NAME OF ACTION	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Forestry and Agricultural Stakeholders	Best Management Practices	Soil and Sedimentation Control Ordinance	Ongoing	Ongoing
Dougherty County	Code Enforcement Officer	The Code Enforcement Officer has the authority to write citations, fine, and take to Magistrate Court if someone is found to be in violation.	2001	Current
City of Newton	Code Enforcement Officer	The Code Enforcement Officer has the authority to write citations, fine, and take to Municipal Court if someone is found to be in violation.	2001	Current

Note: All organizations listed in tables are considered stakeholders.

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
County	Periodic Monitoring	Monitor impaired stream segments for fecal Coliform	2002	Pending Funding
Georgia EPD	Water Quality Management Plan	Implement regulatory/voluntary activities to meet water quality goals (Watershed Protection Strategy)	2005	Ongoing

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	X			
Identify sources of TMDL parameter	X				
Develop management programs to control runoff including identification and implementation of BMPs (Phase I):	X	X			
Agriculture					
Forestry					
Urban	X	X			
Mining					
Organize and implement education and outreach programs	X	X	X		
Detect and eliminate illicit discharges					
Evaluate additional management controls needed			X	X	X
Monitor and evaluate results		X		X	
Reassess TMDL allocations				X	X
Provide periodic status reports on implementation of remedial activities			X		X
If needed, begin process for Phase II (next 5 years) and subsequent phases					

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 4
- Number of management controls and activities proposed in five-year work program 2
- 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
???-Funding must be identified Georgia EPD/County	As soon as possible	Fecal Coliform	Determine if fecal coliform levels still warrant listing the branch on the 303(d) list	Funding for monitoring must be identified
???-Funding must be identified Georgia EPD/County	If additional monitoring determines F.C. levels exceed limits	Fecal Coliform	Monitor branch at several different points to identify source of contamination. Implement necessary measures to decrease F.C. load	Needs to be done if stream is not de-listed; Funding must be identified.
???-Funding must be identified Georgia EPD/County	After sources are determined and measures to abate are implemented	Fecal Coliform	Periodic monitoring to determine if implemented measures are successful	Needs to be done if stream is not de-listed; Funding must be identified.

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

ORGANIZATION	TIME FRAME	PARAMETERS	PURPOSE	STATUS
EPD	2003-2005	Fecal Coliform	Basin planning	N/A
County	2005	Fecal Coliform	Test for impairment	N/A

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)
See Section II
- Best management practices installed (agricultural, forestry, urban)

COMMENTS

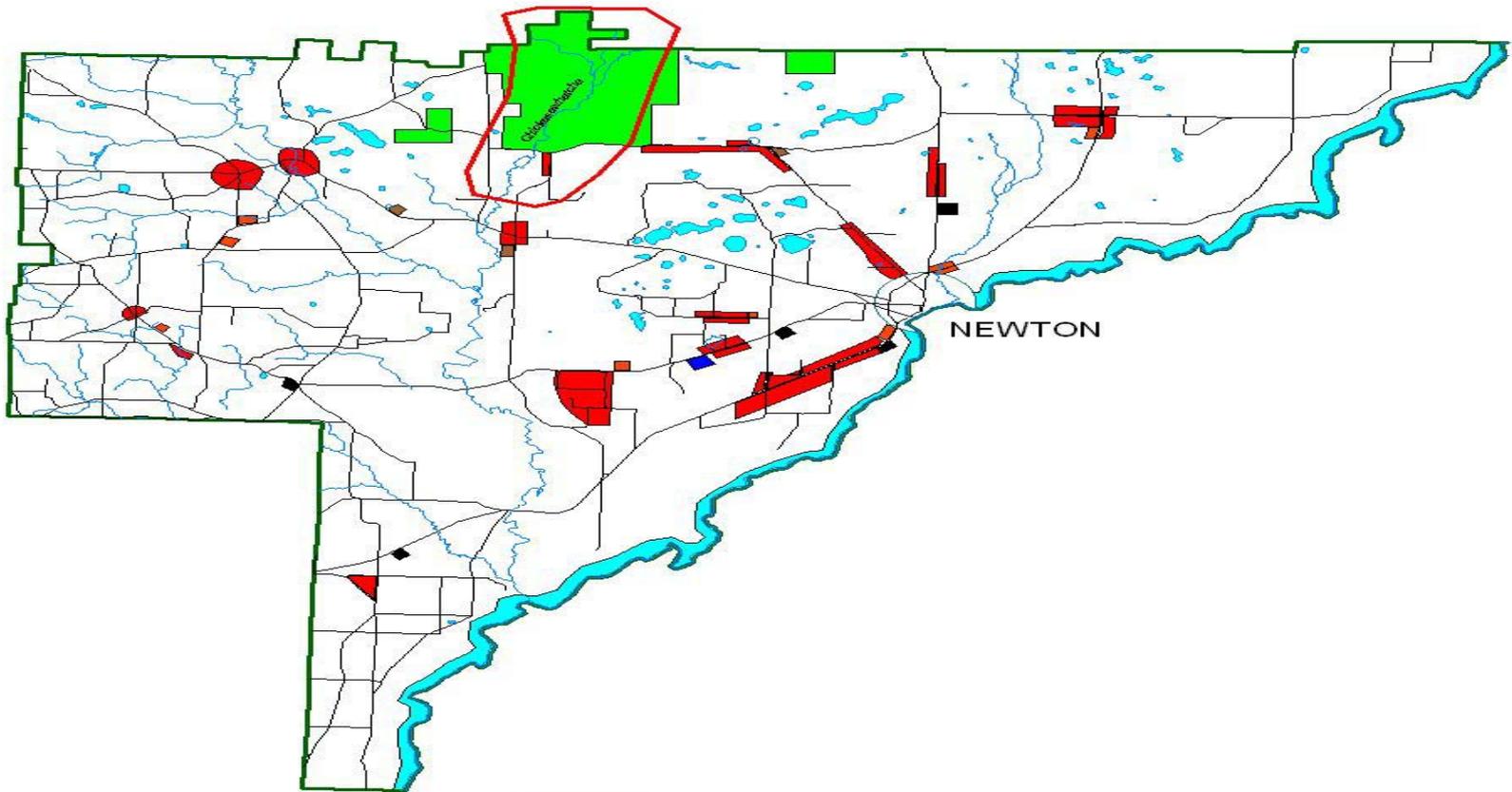
The following comments pertain to this plan revision.

After reviewing RDC land use data and visiting the area, it should be noted that this area is primarily agricultural land, and has small areas of residential development in Newton, Georgia. As noted above, about 10 % of the land within the watershed is given over to pasture and that there are potentially quite large numbers of livestock in relatively confined areas whose effluent may be reaching the effected segment.

Poorly maintained septic tank systems around the city of Newton may account for high fecal coliform counts.

Other sources of fecal coliform can be from the abundant wildlife in southern Dougherty and Baker County. Large tracts of property (Private Plantations) dominate this area and are well known for a large variety of wildlife, it is estimated that there are 35 deer per square mile within the watershed. Obviously, given the popularity of hunting in the region, it's quite possible that some of the plantations may have imported a number of more, 'exotic' species or simply work to boost animal populations within the plantation's boundaries.

The primary theme of the stakeholder meeting of August 19th 2004, was that there should be more testing done on the effected segments.



 HUC 10 CORRIDOR



LEGEND

EXISTING LAND USE

-  Residential
-  Commercial
-  Parks / Recreation / Conservation
-  Public / Institutional
-  Industrial
-  Transportation / Utility / Conservation
-  Agricultural / Forestry
-  Unused / Undeveloped

SOUTHWEST GEORGIA
REGIONAL DEVELOPMENT
CENTER

EXISTING LAND USE

BAKER
COUNTY