

STATE OF GEORGIA

TMDL IMPLEMENTATION PLAN: Two Mile Creek (STREAM) Fecal coliform (PARAMETER) BASIN: Chattahoochee  
 PLAN DATE: 3-5-01

Prepared by: Tom O'Bryant _____  Georgia Mountains Regional Development Center Address: P. O. Box 1720 _____ City: Gainesville State: GA _____ Zip: 30503 e-mail: tobryant@gmrdc.org _____ Date Submitted to EPD: 3-26-01 _____		Or Prepared By: _____  Address: _____ City: _____ State: _____ Zip: _____ e-mail: _____ 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 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)	CHT0000028	Name/Organization	<b>See Attachment A</b>
Water body name	Two Mile Creek	Address	
HUC basin name	Chattahoochee River	City	State Zip
HUC number	031300010802	Phone	e-mail
Primary county	Forsyth	Name/Organization	
Secondary county		Address	
Primary RDC	Georgia Mountains	City	State Zip
Secondary RDC		Phone	e-mail
Water body location	Forsyth County, GA	Name/Organization	
		Address	
Miles or area impacted	5	City	State Zip
Parameter addressed in plan	Fecal coliform	Phone	e-mail
Water use classification	Fishing	Name/Organization	
Degree of impairment	Partially supporting use <input checked="" type="checkbox"/>	Address	
	Not supporting use	City	State Zip
Date TMDL approved by EPA		Phone	e-mail
Impairment due to	Point sources	Name/Organization	
	Nonpoint sources <input checked="" type="checkbox"/>	Address	
	Both <input type="checkbox"/>	City	State Zip

FORM B

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

EXISTING LOAD	TARGET TMDL	NEEDED REDUCTION
300 cfu/100 ml	150 cfu/100 ml	150 cfu/100 ml

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)
Agriculture	Diffuse runoff of animal waste associated with erosion; runoff from Concentrated animal operations; spreading of animal waste or municipal sludge on fields; failing septic systems	75% reduction in loading from agriculture or pasture land uses.

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>
Forsyth County	Erosion & Sedimentation Control Ordinance	Regulates land disturbing activities for clearing, grading, excavating or filling of land.	Enacted	Currently enforced
Forsyth County	Flood Damage Prevention Ordinance FEMA Model	Specifies construction methods and practices to minimize damage from flooding and the degree of hazard.	Enacted	Currently enforced
Forsyth County	Storm Water Management Ordinance	Requires an analysis of downstream impacts and requires control of peak rate runoff to be calculated for 2, 10, 25 and 100 year storm events. Lake exemptions.	Enacted	Currently enforced
Forsyth County Department of Environmental Health	Septic Tank Installation and Permitting	Requirements for inspection and certification that lots have been approved for an individual sewage system.	Enacted	Currently enforced
Forsyth County	Subdivision Regulations	Plan review prior to subdivision of land and permitting of development.	Enacted	Currently enforced
Forsyth County	Tree Preservation Ordinance	Requires a minimum tree density of 15 units per acre on site. Off site mitigation is prohibited.	Enacted	Currently enforced
Forsyth County	Metropolitan River Protection Act (MRPA)	Buffers and setbacks along the Chatthoochee River and its tributaries in a 2,000 foot corridor; limits clearing and impervious; placement of development.	Enacted	Currently enforced.
Forsyth County	Environmental Planning Criteria	Water supply watershed protection, river corridor protection and protection of significant groundwater recharge areas.	Enacted	Currently enforced.
<b>For others See Attachment B</b>				

Existing voluntary actions

RESPONSIBLE ORGANIZATION OR ENTITY	NAME OF ACTION	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Forsyth County	Community Watershed Assessment and Management Plan (permit driven)	A effort designed to promote consistency in the water quality and Biological data, pollutant runoff and load-ing estimates, water quality modeling, and watershed management strategies.	3/2000	Under review by county.
Upper Chattahoochee Basin Group	Water Quality Study for Lake Lanier -319 grant	Developed watershed loadings and water quality response model.	2/1997	Implementa-tion phase
Forsyth County Engineering	Water quality monitoring	Dry and wet weather screening components. Inspection for illicit discharges.	Enacted	Ongoing
GA Mountain Regional Development Center	Chattahoochee River Headwaters Management Program	Analysis of existing water protection programs, and development of a regional watershed management plan	11/1998	On-going
Forsyth County Engineering	Adopt-A-Stream	Citizen monitoring program	1998	Implemented
Forsyth County	Agricultural Education	County working cooperatively with state and federal agencies in assisting farmers to help protect water resources.	Enacted	On-going

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
Forsyth County	Program	Develop additional agricultural education and demonstration programs.	TBA	TBA
Forsyth County	Program	Develop agricultural cost share program.	TBA	TBA
Forsyth County	Projects	Watershed Restorations and Retrofits Improvements	TBA	TBA
Forsyth County	Erosion and Sedimentation Control	Increased requirements for all sites; improvements to manual; increased inspections.	TBA	TBA
Forsyth County	Storm Water	Manual improvements; water quality improvements; capture first 1 inch rainfall after construction; Discourage piping of streams; reduce impervious	TBA	TBA
Forsyth County	Public Outreach	An effective education/outreach program promoting water quality awareness.	TBA	TBA
Forsyth County	Sewer Infrastructure	Increase system inspections;Sewer high density areas	TBA	TBA

Forsyth County	Lake Protection	Protection standards/practices and setbacks for development occurring on Lake Lanier and within the watershed.	TBA	TBA
<b>For others See Attachment C</b>				

III. SCHEDULE FOR IMPLEMENTING MANAGEMENT MEASURES OR OTHER CONTROL ACTIONS: **See Attachment D**

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

<b>IMPLEMENTATION ACTION</b>	<b>YEAR 1</b>	<b>YEAR 2</b>	<b>YEAR 3</b>	<b>YEAR 4</b>	<b>YEAR 5</b>
Form stakeholders group					
Organize implementation work with stakeholders and local officials to identify remedial measures and potential funding sources					
Identify sources of TMDL parameter					
Develop management programs to control runoff including identification and implementation of BMPs (Phase I):					
Agriculture					
Forestry					
Urban					
Mining					
Organize and implement education and outreach programs					
Detect and eliminate illicit discharges					
Evaluate additional management controls needed					
Monitor and evaluate results					
Reassess TMDL allocations					
Provide periodic status reports on implementation of remedial activities					
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 \_\_\_\_\_ 14 \_\_\_\_\_
- Number of management controls and activities proposed in five-year work program \_\_\_\_\_ 24 \_\_\_\_\_
- 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.

<b>ORGANIZATION</b>	<b>TIME FRAME</b>	<b>PARAMETERS</b>	<b>PURPOSE</b>	<b>STATUS</b>
Upper Chattahoochee Basin Group	1996-1997	DO, nutrients ,fecal, TSS,	Watershed loading and water quality response models	Partial implementation
USEPA Clean Lakes Study/UGA	1998	DO, nutrients, fecal, TSS, metals, biota, fish tissue	US EPA report of the water quality conditions in Lake Lanier.	Completed
Forsyth County Storm Water Data	1996 to present	DO, Temp, BOD, TSS, pH, solids, phosphorous, fecal, TKN, NN, ALK, etc.	Part of county storm water permit. Sampling at six stations. Dry and wet weather.	On going
Forsyth County Watershed Assessment and Management Plan	1999-2000	DO, temp, BOD, pH TSS, solids, phos, TKN, NN, alk, fecal, turbidity, metals, fish, macroinverts, conduct, etc.	GA DNR EPD Permit Driven	Under review by county

Georgia Mountains Regional Development Center	1999-2001	Development and enforcement practices	US EPA State Wetland Grant Program. Regional study in Lake Lanier Basin.	Completed in July 2001
<b>For others See Attachment E</b>				

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	2000	DO, temp, BOD, pH TSS, solids, phos, TKN, NN, alk, fecal, turbidity, metals, fish, macroinverts, conduct, etc.	basin planning	On going
Forsyth County - Nonpoint source monitoring program (short and long term)	2001-2006	TSS, nutrients, metals, temp, fish, macro inverts.	Measure effectiveness of management plan and recommended BMPs.	Plan adopted by city.
Forsyth County	2001-2001	Biological monitoring	Bi-annual biological monitoring to assess stream health.	Plan adopted by city.
Forsyth County - Stream Walks	2001-2006	Visual survey and habitat assessment	Quarterly stream walks to assess conditions and identify illicit discharges.	Plan adopted by city.
Forsyth County Adopt-A-Stream	2001-2006	Biological monitoring	Public outreach program	Under review by county
<b>For others See Attachment F</b>				

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

**Two Mile Creek** will need to be added to those sites identified in the long term monitoring strategy.

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**See Attachment G: Preliminary Implementation Budget from Watershed Assessment**

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