

STATE OF GEORGIA TMDL IMPLEMENTATION PLAN WATERSHED APPROACH Ochlockonee River Basin

- Local Watershed Governments
 Colquitt, Mitchell, Thomas Counties
 City of Pelham
 City of Meigs
 City of Ochlocknee
 City of Moultrie
 Other _____

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. **With input from appropriate stakeholder groups, a TMDL Implementation Plan has been developed for a cluster of impaired streams and the corresponding pollutants.** The impaired streams are located in the same sub-basin identified by a HUC10 code (Figure 1).

This Implementation Plan addresses an action plan, education/outreach activities, stakeholders, pollutant sources, and potential funding sources affecting the sub-basin. In addition, the Plan describes (a) regulatory and voluntary practices/control actions (*management measures*) to reduce target pollutants, (b) milestone schedules to show the development of the management measures (*measurable milestones*), (c) a monitoring plan to determine the efficiency of the management measures and measurable milestones, and (d) criteria to determine whether substantial progress is being made towards reducing pollutants in impaired waterbodies. 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. Following this section is information regarding individual segments.

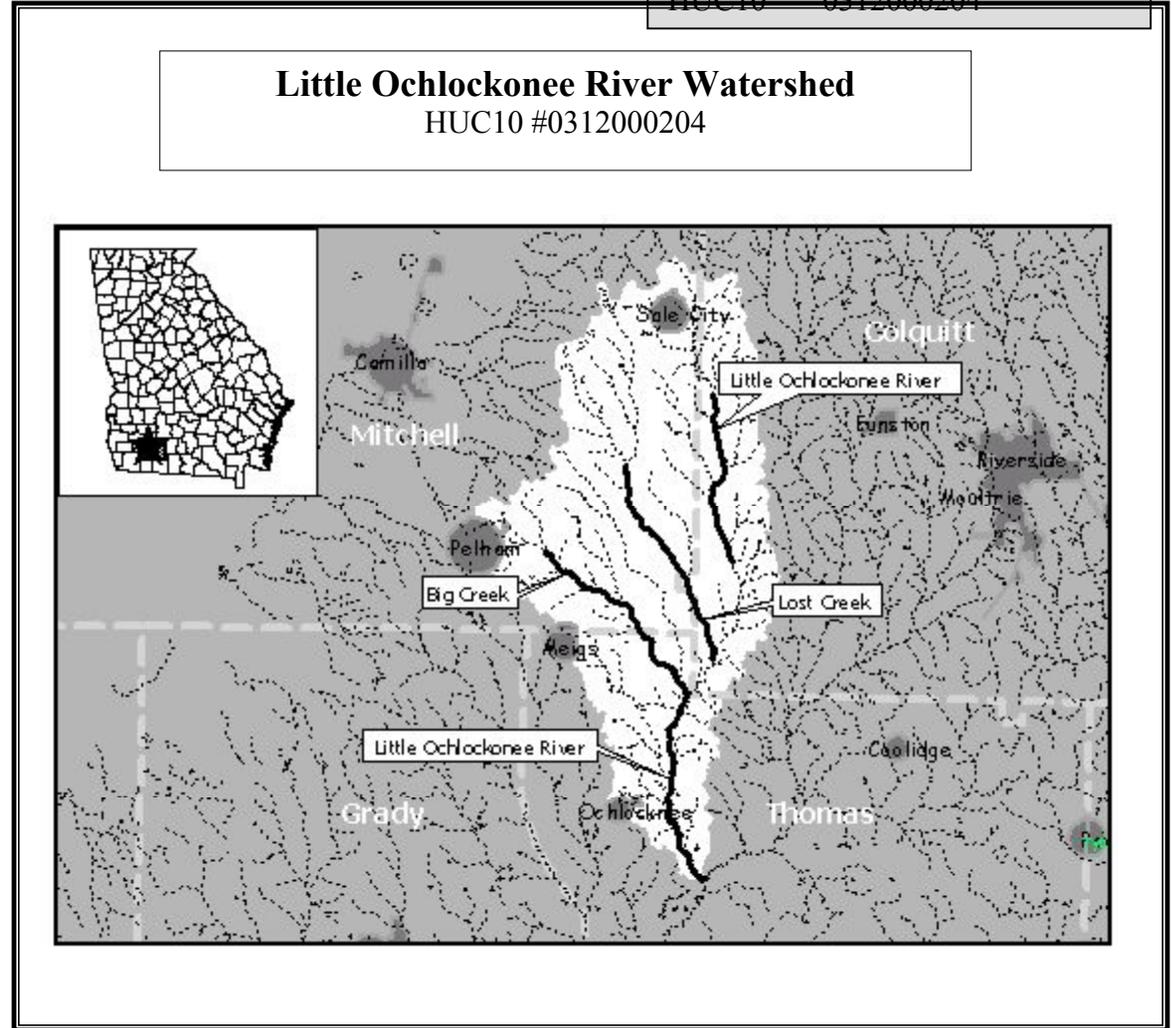


FIGURE 1

Impaired Waterbody*	Impaired Stream Location	Impairment
1. Little Ochlockonee River	Big Cr. to Ochlockonee River near Ochlocknee	Dissolved Oxygen, Fecal Coliform Bacteria
2. Little Ochlockonee River	Slocumb Branch to downstream SR 111 near Moultrie	Dissolved Oxygen, Fecal Coliform Bacteria
3. Big Creek	Headwaters to Little Cr. near Meigs	Dissolved Oxygen, Fecal Coliform Bacteria
4. Lost Creek	Upstream Ga. Hwy. 93 N.E. of Cotton to Little Ochlockonee River	Dissolved Oxygen, Fecal Coliform Bacteria

Action Plan for Little Ochlockonee River Watershed



POLLUTANT:	SOURCE:	EFFECT:	WHAT CAN I DO?	
			At Home: Community, School	At Work: Business, Government
<input checked="" type="checkbox"/> Dissolved Oxygen (DO)	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Habitat	Do not let water and/or chemicals run off your property.	Monitor the quality of water above and below your property.
<input checked="" type="checkbox"/> Fecal Coliform (FC)	<input type="checkbox"/> Urban	<input type="checkbox"/> Recreation	Do not dump trash, appliances, or dead animals off the bridges.	Install/maintain buffers to protect the wetlands.
<input type="checkbox"/> Sediment	<input checked="" type="checkbox"/> Agriculture	<input type="checkbox"/> Drinking Water	Participate in river educational Events.	Follow the Georgia Best Management Practices in land management.
<input type="checkbox"/> Metals	<input checked="" type="checkbox"/> Forestry	<input type="checkbox"/> Aesthetics	Use the Georgia Best Management Practices I n land management	Support educational activities in your community.
<input type="checkbox"/> Fish Consumption Guidelines (FCG)	<input type="checkbox"/> Residential	<input type="checkbox"/> Other (Please List)		
<input type="checkbox"/> Other (Please List)	<input checked="" type="checkbox"/> Other (Please List) Natural	Fishing		Be sure that your employees and contractors follow the BMPs.

INFORMATION/EDUCATION/OUTREACH ACTIVITIES

An education/outreach component will be used to enhance public understanding of and participation in implementing the TMDL Implementation Plan. List of all previous and planned information/education/outreach activities.

Responsible Organization Or Entity	Description	Impacted Waterbodies*	Target Audience	Anticipated Dates (MM/YY)
Georgia EPD	Adopt-A-Stream	Entire Basin	All Residents	11/02
Friends of the Ochlockonee River	No-profit organization serving the stakeholders	Entire Basin	All Residents	11/02
Ga Forestry Commission	Field Day for Land Owners to demonstrate Georgia BMPs	Entire Basin	All Landowners	02 or 03/03
Thomas University	Develop and Implement educational materials	Entire Basin	All School Children & TV audiences	Pre-proposal: 12/02

STAKEHOLDERS

EPD encourages public involvement and the active participation of stakeholders in the process of improving water quality. Stakeholders can provide valuable information and data regarding their community and the impaired water bodies and can provide insight and/or implement management measures.

List of local governments, agricultural organizations or significant landholders, commercial forestry organizations, businesses and industries, and local organizations including environmental groups and individuals with a major interest in this watershed.

Name/Organization	Address	City	State	Zip	Phone	E-Mail
Georgia EPD	4220 Inter. Pkwy Suite 101	Atlanta	GA	30254	404.675.1614	Ted_Mikalson@mail.dnr.state.ga.us
Colquitt County	P.O. Box 517	Moultrie	GA	31776	229.985.4029	
Mitchell County	P.O. Box 187	Camilla	GA	31730	229.336.2000	
Thomas County	225 N. Broad St.	Thomasville	GA	31792	229.225.4100	
City of Pelham	128 W. Railroad St. S	Pelham	GA	31779	229.229.7900	
The Nature Conservancy	18 North Main St.	Moultrie	GA	31768	229.958.8117	www.Georgiaconservancy.org
Tall Timbers Research Station	13093 Henry Beadel Dr.	Tallahassee	FL	32312	850.893.4153	www.talltimbers.org
International Paper	719 Southlands Rd.	Bainbridge	GA	31717	229.246.3642	Rebecca.winn@paper.com
Friends of the Ochlocknee	1501 Millpond Rd.	Thomasville	GA	31792	229.226.1621	
Ga. Forestry Commission	3561 Highway 112	Camilla	GA	31730	229.522.3580	gfindley@gfc.state.ga.us
Southwest Georgia RDC	30 West Broad St.	Camilla	GA	31730	229.522.3552	amacdonald@swgrdc.org
USDA-NRCS	350 E. ByPass NE	Moultrie	GA	31788	229.985.5399	Randall.Odum@gamoultrie.fsa.usda.gov
Richard Royal	6280 Pebble City Rd	Camilla	GA	31730	229.336.7339	
Roger King	2 12 th Avenue S	Moultrie	GA	31778	229.985.0034	
John Bullock	3554 Bullock Rd.	Ochlocknee	GA	31773	229.683.3420	
Brian Marlowe	P.O. Box 517	Moultrie	GA	31776	229.616.7400	
City of Ochlocknee	1044 Railroad St. E	Ochlocknee	GA	31773	229.574.5188	
City of Meigs	1006 E. Depot St.	Meigs	GA	31765	229.683.9807	
Sale City	P.O. Box 187	Camilla	GA	31730	229.336.2000	
Susan Bannister	P.O. Box 1397	Thomasville	GA	31799	229.227.7000	SusanB@Thomasville.org
Don Oliver	616 S. Broad St.	Thomasville	GA	31792	unlisted	doliver@rose.net
Birdsong Nature Center	2106 Meridan Rd	Thomasville	GA	31792	229.377.4408	
Sylvester Public Library	205 E. Pope St.	Sylvester	GA	31791	229.776.2096	
Pelham-Carnegie Library	133 Hand Ave.	Pelham	GA	31779		
Colquitt County Schools	P.O. Box 2708	Moultrie	GA	31776	229.890.6200	www.colquitt.k12.ga.us
Thomas County Library	201 N. Madison St.	Thomasville	GA	31792	229.225.5252	
Kathleen Folsom	2528 S. Pinetree Blvd	Thomasville	GA	31792	229.226.6401	
Todd Engstrom	P.O. Box 890	Thomasville	GA	31799	229.226.4984	
Oil Dry Corp of America	630 Campbell St.	Thomasville	GA	31792	229.226.2059	
Moultrie Chamber of Commerce	116 First Avenue, SE	Moultrie	GA	31776	229.985.2131	www.moultriechamber.com

WATER BODIES/STREAMS COVERED IN THIS PLAN:

These impaired streams are located in the same sub-basin identified by a HUC10 code. Most of the information contained in this section comes from the 303(d) list and has been completed by employees of the EPD Water Protection Branch.

Waterbody Name #1		Location	Miles/Area Impacted	Use Classification	Partially Supporting/ Not Supporting (PS/NS)
Little Ochlockonee River		Big Cr. to Ochlockonee River near Ochlocknee	9	Fishing	NS
Primary County		Secondary County	Second RDC		Source (Point/ Nonpoint)
Thomas					Nonpoint
Pollutants	Water Quality Standards	Required Reduction	TMDL ID	Date TMDL Established	
Dissolved Oxygen	5mg/l (daily average) 4 mg/l (minimum)	23% (TOC)		12/2001	
	Natural DO lower than state standard.	25% (TN)			
	Calculated target DO 4.41 mg/l.	25% (TP)			
Fecal Coliform Bacteria	1,000 per 100 ml (geometric mean Nov-April)	75%		6/2000	
	200 per 100 ml (geometric mean May-Oct)				
Waterbody Name #2		Location	Miles/Area Impacted	Use Classification	Partially Supporting/ Not Supporting (PS/NS)
Little Ochlockonee River		Slocumb Branch to downstream SR 111 near Moultrie	9	Fishing	NS
Primary County		Secondary County	Second RDC		Source (Point/ Nonpoint)
Colquitt					NONPOINT
Pollutants	Water Quality Standards	Required Reduction	TMDL ID	Date TMDL Established	
Dissolved Oxygen	5mg/l (daily average) 4 mg/l (minimum)	23% (TOC)		12/2001	
	Natural DO lower than state standard.	23% (TN)			
	Calculated target DO 1.81 mg/l.	23% (TP)			
Fecal Coliform Bacteria	1,000 per 100 ml (geometric mean Nov-April)	78%		6/2000	
	200 per 100 ml (geometric mean May-Oct)				



Waterbody Name #3	Location	Miles/Area Impacted	Use Classification	Partially Supporting/ Not Supporting (PS/NS)
Big Creek	Headwaters to Little Cr. near Meigs	12	Fishing	NS
Primary County	Secondary County	Second RDC	Source (Point/ Nonpoint)	
Mitchell	Thomas		NONPOINT	

Pollutants	Water Quality Standards	Required Reduction	TMDL ID	Date TMDL Established
Dissolved Oxygen	5mg/l (daily average) 4 mg/l (minimum) Natural DO lower than state standard. Calculated target DO 0.77 mg/l.	28% (TOC) 28% (TN) 28% (TP)		12/2001
Fecal Coliform Bacteria	1,000 per 100 ml (geometric mean Nov-April) 200 per 100 ml (geometric mean May-Oct)	71%		6/2000

Waterbody Name #4	Location	Miles/Area Impacted	Use Classification	Partially Supporting/ Not Supporting (PS/NS)
Lost Creek	Upstream Ga. Hwy. 93 N.E. of Cotton to Little Ochlockonee River	9	Fishing	NS
Primary County	Secondary County	Second RDC	Source (Point/ Nonpoint)	
Mitchell	Colquitt		Nonpoint	

Pollutants	Water Quality Standards	Required Reduction	TMDL ID	Date TMDL Established
Dissolved Oxygen	5mg/l (daily average) 4 mg/l (minimum) Natural DO lower than target DO. Calculated target DO 1.57 mg/l.	19% (TOC) 19% (TN) 19% (TP)		12/2001
Fecal Coliform Bacteria	1,000 per 100 ml (geometric mean Nov-April) 200 per 100 ml (geometric mean May-Oct)	73%		6/2000



POLLUTANT SOURCES

It is important to recognize the potential source(s) causing water quality impairment. Each source must be controlled to comply with target TMDL/Load Allocations for each pollutant. Included is a description of how the sources contribute to the impairment and the waterbody that is impaired.

List of major nonpoint source categories and sub-categories or individual sources (Urban Runoff, Agriculture, Forestry, Municipal Sewage Treatment Plant)

Pollutant	Sources of Pollutants	Description of Contribution To Impairment	Impacted Waterbodies*
DO, FC	Agriculture Non Point	Runoff (?) Failure to prevent runoff from farming &/or livestock operations from entering the creeks	Little Och Rv Thomas Cty
DO, FC	Agriculture Non Point	Runoff (?) Failure to prevent runoff from farming & or Livestock operations from entering the creeks	LittleOch.Rv near Moultrie
DO, FC	Agriculture Non Point	Runoff (?) Failure to prevent runoff from farming operations from entering the creeks	Big Creek
DO, FC	Agriculture Non Point	Runoff (?) Failure to prevent runoff from farming operations from entering the creeks	Lost Creek
FC	Failing Septic Tanks	Malfunctioning septic tanks causing surface water contamination with bacteria.	All streams
Low DO	Natural	Stream below critical conditions: High temperatures and low flow contribute to low levels of dissolved oxygen in the stream.	All streams

MANAGEMENT MEASURES, MEASURABLE MILESTONES AND SCHEDULE

(i.e. Local codes and ordinances, Erosion and Sedimentation Control, Storm Water Management, Local water resource monitoring)

The following table lists management measures that have been or will be implemented to achieve water quality standards and the load reductions established in the TMDL. The management measures, including regulatory or voluntary actions or other controls by governments or individuals, specifically apply to the pollutant and the waterbody for which the TMDL was written. A description is provided of how these management measures are/will be accomplished through reliable and effective delivery mechanisms, and how these management measures are/will help achieve the target TMDL. Included is the source of the pollutant, anticipated/past effectiveness of the management measure (very effective, somewhat effective, not effective), the current status (i.e. enforced, in-progress, planning), and measurable milestones and schedule. Milestones are used to measure progress in attaining water quality standards and to determine whether management measures are being implemented.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Forestry Best Management Practices	GA Forestry Commission GA EPD if enforcement	Protect streamside management zones and maintain canopy during harvesting	Current	In-progress	Voluntary (Violations of "Georgia Water Quality Act" may be pursued)

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	nonpoint	All streams in watershed	EPA identifies silviculture as the lowest contribution source of nonpoint pollution

Measurable Milestones	Schedule		Comments
	Start	End	
Increase in concentration of DO	01/03	01/05	Education of Land owners & buffer funding requests & adaptive monitoring
Decrease in concentration of FC			Continued efforts of land owners
Little Och R (Thomas)- DO > Target - 4.41 mg/L	01/05	01/12	
Little Och. R(Mitchell)- DO > Target - 1.81 mg/L			
Big Creek- DO > Target - 0.77 mg/L			
Lost Creek - DO > Target - 1.57 mg/L			
All Streams FC < 200 colonies/ 100 mL			

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/Voluntary
USDA programs applicable to protecting riparian corridors such as the Conservation Reserve Program, Wetlands Reserve Program and Conservation Buffer Initiatives	USDA/NRCS	These programs serve to protect or restore riparian buffers which. These buffers may contain canopies that reduce sunlight penetration, stream warming and reduction of oxygen saturation. The buffers also filter fertilizer and organic wastes from runoff, which may in turn cause excessive algae growth and eventually depressed dissolved oxygen levels. By removing organic wastes, such as manure, the possibility of pathogen introduction is also reduced.	Current	In Progress	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC, DO	Non point	Whole watershed	

Measurable Milestones	Schedule		Comments
	Start	End	
Decrease in concentration of FC Increase in concentration of DO	01/03	01/05	Education of land owners & Buffer funding requests & adaptive monitoring

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/Voluntary
Reduce Dumping off bridges	Colquitt, Mitchell and Thomas Counties	Reduce trash and carcasses being dumped into the river tributaries-Education and Enforcement programs	Thomas 10/02 Grady & Mitchell Cty ?/?	In progress & proposed	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	Oils, greases, carcasses	All Streams	Not effective

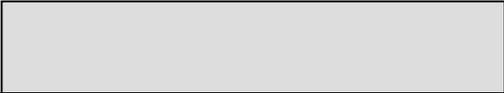
Measurable Milestones	Schedule		Comments
	Start	End	
Reduction in the amount of trash observed	01/03	01/05	Educational programs, signs, monitoring via photography
Continued reduction of trash observed	01/05	01/12	Continue above actions



Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Reduce runoff from bridges	Colquitt, Mitchell & Thomas Counties	Implement measures to reduce runoff from unimproved and improved county roads	01/05	In planning	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	Runoff from roads	All Streams	Unknown

Measurable Milestones	Schedule		Comments
	Start	End	
Experimental designs started Begin monitoring test sites 01/05	01/05	01/08	Application EPA Wetlands protection grant -pre-proposal 12/02



Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Georgia Planning Act	GA DNR, Local governments	To help prevent groundwater contamination, the Georgia Planning Act identifies groundwater recharge areas as critical natural resources and directs steps to help prevent contamination of groundwater. DNR has established minimum criteria for protection of groundwater recharge areas. DNR's minimum standards are to be used in developing and implementing local comprehensive plans. Local governments are directed to incorporate provisions for protection of groundwater recharge areas in local comprehensive plans and to adopt protective ordinances at least as stringent as the state standards developed by DNR. This protection of groundwater recharge should also have a positive although indirect impact on surface water quality.	ASAP	Planning	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC, DO	Runoff & over well pumping	All streams in the basin	Unknown

Measurable Milestones	Schedule		Comments
	Start	End	
			Regulations are in force



Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Adaptive monitoring and watershed assesment	Thomas University	Collecting samples upstream from established sites to isolate and identify sources of pollution. EPD will contract with USGS to sample sites initially sampled in 1998. They will employ revised protocols to sample sites to avoid the impacts of extreme low flow or ponding which may have influenced DO samples collected in 1998 and the subsequent assessments for listing on the 303(d).	01/03	In planning	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	To be determined	Entire basin	Anticipated- very effective

Measurable Milestones	Schedule		Comments
	Start	End	
Adaptive monitoring 1 st cycle completed	01/03	01/04	Individuals, local govts, and EPD will be notified of the results
Decrease in concentration of FC Increase in concentration of DO	01/04	01/12	

POTENTIAL FUNDING SOURCES

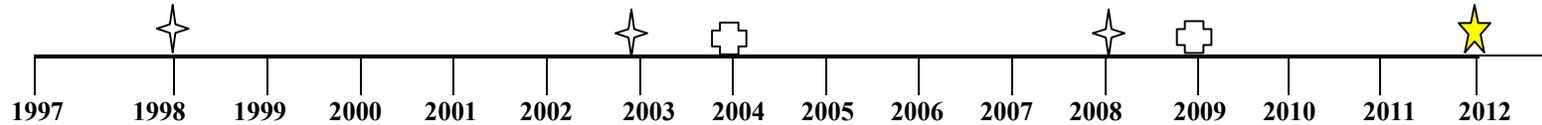


The identification and discussion of dedicated funding is important in determining the economic feasibility of the above-mentioned management measures.

Funding Source	Responsible Authority	Status	Anticipated Funding Amount	Impacted Waterbodies*
Georgia EPD	Thomas University	In Planning	??	Entire basin
Archebold hospital Foundation	Friends of the Ochlockonee River	In Planning	??	Entire basin
EPA Wetlands Protection Program Grant	Thomas University	In-Planning	To be determined	Entire basin
EPA 319 Grant	Thomas University & Local Govts	In Planning	To be Determined	Entire Basin
Williams Family Foundation	Friends of the Ochlockonee River	In Planning	To be Determined	Entire Basin
Woodruff Foundation	Thomas University To develop educational Materials	In Planning	To Be Determined	Entire Basin

PROJECTED ATTAINMENT DATE

The projected date to attain and maintain water quality standards in this watershed is 10 years from acceptance of the TMDL Implementation Plan by EPD.



EPD Monitoring 
 Evaluate TMDL & Attainment Date 
 Project Attainment 

MONITORING PLAN

The purpose of this monitoring plan is to determine the effectiveness of the target TMDL and the management measures being implemented to meet water quality standards. List of previous, current or planned/proposed sampling activities or other surveys. (Monitoring data that placed stream on 303(d) list will be provided if requested.)

Name Of Regulation / Ordinance Or Management Measure	Organization	Impacted Waterbodies*	Pollutants	Purpose/Description	Time Frame		Status (Previous, Current, Proposed)
					Start	End	
Initial monitoring	USGS/EPD	Entire Basin	DO & FC	To establish TMDLs	01/98	12/98	Previous
Selective Monitoring	Thomas University	Entire Basin	DO & FC	To develop monitoring Protocols And establish new monitoring sites	09/02	12/03	Current
EPD Monitoring	Thomas University	Established Sites	DO & FC/EC	To monitor the effectiveness of the above plans	01/03	01/04	Proposed
Adaptive Monitoring	Thomas University	303b streams	DO,FC, Turbidity Nutrients, etc	Identify and locate sources of pollutants in each identified stream	01/03	??	Proposed
Individual Industries	Industries	Various	DO, FC, Turbidity Nutrients	Monitor the affected stream above and below the industry for water quality	01/03	??	Voluntary program



CRITERIA TO DETERMINE WHETHER SUBSTANTIAL PROGRESS IS BEING MADE

The following set of criteria will be used to determine whether any substantial progress is being made towards reducing pollutants in impaired waterbodies and attaining water quality standards. Discussion on each criteria is recorded in the space provided. Additional relevant criteria are presented in comments.

Percent of concentration or load change (monitoring program) Increasing trend in DO over a period of one year,
Decreasing trend in FC over a period of one year.

- Categorical change in classification of the stream (delisting the stream is the goal)
Stream meets or exceeds DO target; FC is within state guidelines.
If monitoring results show that it is unlikely that the TMDL will be adequate to meet water quality standards, revision of the TMDL may be necessary.

- Regulatory controls or activities installed (ordinances, laws) Antidumping ordinances enacted by all counties; (similar to Thomas County)
BMPs for forestry, agriculture, and land disturbing activities integrated into all counties
Ordinances.

- Best management practices installed (agricultural, forestry, urban) Forestry BMPs being followed – data from courtesy visits of the district forester,
Agricultural BMPs being followed-data from stream buffer initiative and NRCS data; Urban BMPs being followed.

COMMENTS

Before definitive actions can be taken, specific, offenders, land owners, and industries must be identified. The proposed adaptive monitoring procedures will
aid in identifying the specific sources of pollutants in streams that have non point pollution sources. With this knowledge, local and state governments will be
able to enact or enforce existing statutes to correct the problem..

Watershed Little Ochlockonee River
HUC10 0312000204

Prepared By:	Dan Sanford				
Agency:	Thomas University				
Address:	1501 Millpond Road				
City:	Thomasville	ST:	GA	ZIP:	31792
E-mail:					
Date Submitted to EPD:	12/27/2002				

The preparation of this report was financed in part through a grant from the U.S. Environmental Protection Agency under the provisions of Section 106 of the Federal Water Pollution Control Act, as amended.

**Environmental Protection Division of the Department of Natural Resources,
State of Georgia.**

TOGETHER WE CAN MAKE A DIFFERENCE!

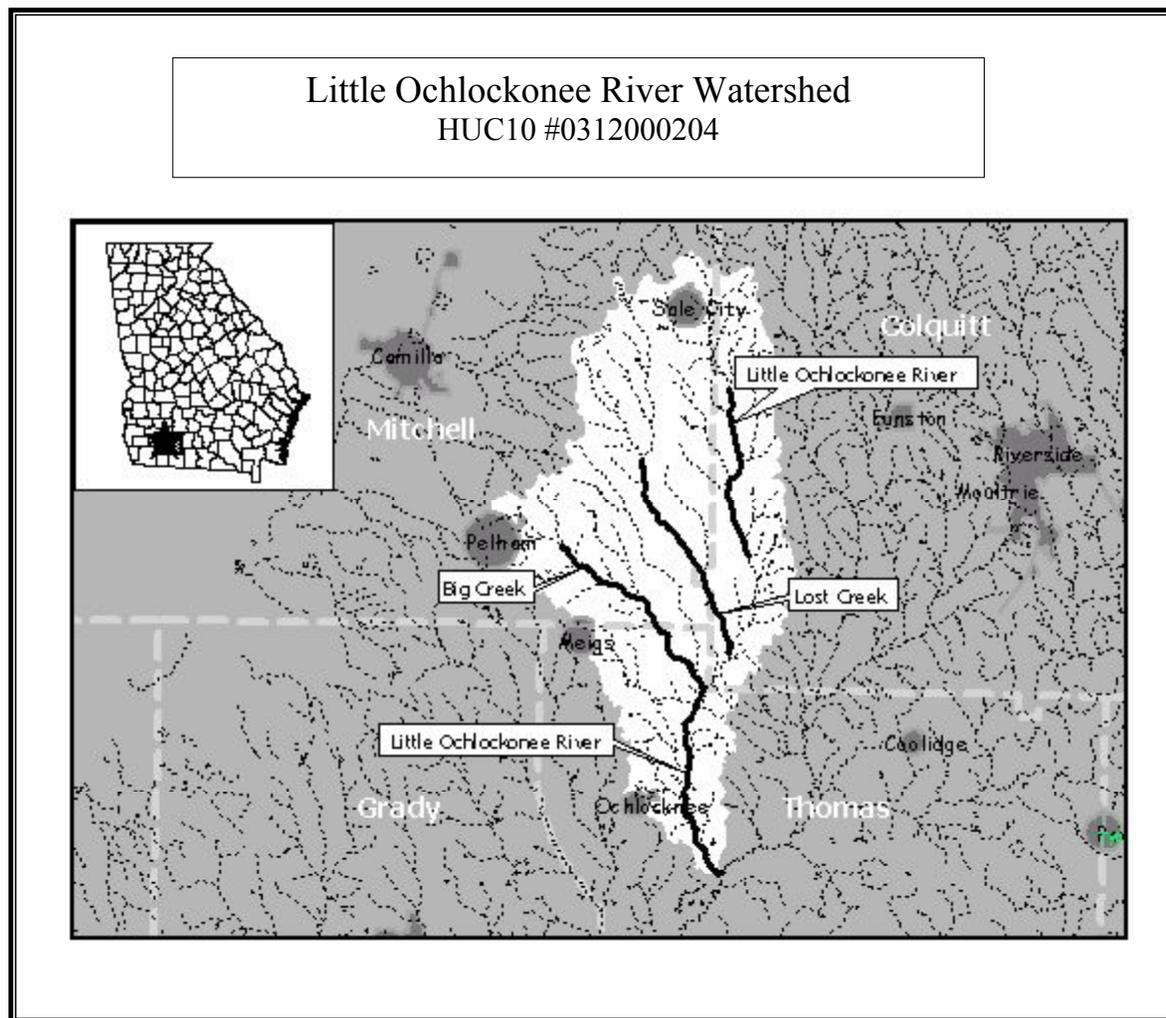
ATTACHMENT A:
STREAM APPROACH

**STATE OF GEORGIA
TMDL IMPLEMENTATION PLAN
RIVER BASIN**

STREAM APPROACH

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. With input from appropriate stakeholder groups, a TMDL Implementation Plan has been developed for a cluster of impaired waterbodies and the corresponding pollutant(s). The following impaired waterbodies are located in the same sub-basin identified by a HUC10 code (Figure 1).

This portion of the Implementation Plan addresses individual waterbodies and the corresponding pollutant sources, stakeholders, education/outreach activities, and potential funding sources. In addition, the Plan describes (a) regulatory and voluntary practices/control actions (*management measures*) to reduce target pollutants, (b) milestone schedules to show the development of the management measures on reducing target pollutants (*measurable milestones*), and (c) a monitoring plan to determine the efficiency of the management measures and measurable. 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*	Location	Impairment
1. Little Ochlockonee River	Big Cr. to Ochlockonee River near Ochlocknee	Dissolved Oxygen, Fecal Coliform Bacteria
2. Little Ochlockonee River	Slocumb Branch to downstream SR 111 near Moultrie	Dissolved Oxygen, Fecal Coliform Bacteria
3. Big Creek	Headwaters to Little Cr. near Meigs	Dissolved Oxygen, Fecal Coliform Bacteria
4. Lost Creek	Upstream Ga. Hwy. 93 N.E. of Cotton to Little Ochlockonee River	Dissolved Oxygen, Fecal Coliform Bacteria

*These Waterbody Numbers are referenced throughout the implementation plan.

Ochlockonee River Basin
TMDL Implementation Plan
Little Ochlockonee River Watershed
HUC 0312000204

Little Ochlockonee River

NAME	LOCATION	MILES/AREA IMPACTED	CLASSIFICATION	PARTIALLY SUPPORTING/ NON SUPPORTING (PS/NS)
Little Ochlockonee River	Big Cr. to Ochlockonee River near Ochlocknee	9	Fishing	NS
PRIMARY COUNTY	SECONDARY COUNTY	SECOND RDC	SOURCE (POINT/NON-POINT)	
Thomas			Nonpoint	

POLLUTANTS	WATER QUALITY STANDARDS	REQUIRED REDUCTION	DATE TMDL ESTABLISHED	TMDL ID #
Dissolved Oxygen	5mg/l (daily average) 4 mg/l (minimum). Natural DO lower than state standard. Calculated target DO 4.41 mg/l.	23% (TOC) 25% (TN) 25% (TP)	12/2001	
Fecal Coliform Bacteria	1,000 per 100 ml (geometric mean Nov-April) 200 per 100 ml (geometric mean May-Oct)	75%	6/2000	

Ochlocknee River Basin
TMDL Implementation Plan
Little Ochlocknee River Watershed
HUC 0312000204

SIGNIFICANT STAKEHOLDERS

Name/Organization	Address	City	State	Zip	Phone	E-Mail
Georgia EPD	4220 Inter. Pkwy Suite 101	Atlanta	GA	30254	404.675.1614	Ted_Mikalson@mail.dnr.state.ga.us
Colquitt County	P.O. Box 517	Moultrie	GA	31776	229.985.4029	
Mitchell County	P.O. Box 187	Camilla	GA	31730	229.336.2000	
Thomas County	225 N. Broad St.	Thomasville	GA	31792	229.225.4100	
City of Pelham	128 W. Railroad St. S	Pelham	GA	31779	229.229.7900	
The Nature Conservancy	18 North Main St.	Moultrie	GA	31768	229.958.8117	www.Georgiaconservancy.org
Tall Timbers Research Station	13093 Henry Beadel Dr.	Tallahassee	FL	32312	850.893.4153	www.talltimbers.org
International Paper	719 Southlands Rd.	Bainbridge	GA	31717	229.246.3642	Rebecca.winn@paper.com
Friends of the Ochlocknee	1501 Millpond Rd.	Thomasville	GA	31792	229.226.1621	
Ga. Forestry Commission	3561 Highway 112	Camilla	GA	31730	229.522.3580	gfindley@gfc.state.ga.us
Southwest Georgia RDC	30 West Broad St.	Camilla	GA	31730	229.522.3552	amacdonald@swgrdc.org
USDA-NRCS	350 E. ByPass NE	Moultrie	GA	31788	229.985.5399	Randall.Odum@gamoultrie.fsa.usda.gov
Richard Royal	6280 Pebble City Rd	Camilla	GA	31730	229.336.7339	
Roger King	2 12 th Avenue S	Moultrie	GA	31778	229.985.0034	
John Bullock	3554 Bullock Rd.	Ochlocknee	GA	31773	229.683.3420	
Brian Marlowe	P.O. Box 517	Moultrie	GA	31776	229.616.7400	
City of Ochlocknee	1044 Railroad St. E	Ochlocknee	GA	31773	229.574.5188	
City of Meigs	1006 E. Depot St.	Meigs	GA	31765	229.683.9807	
Sale City	P.O. Box 187	Camilla	GA	31730	229.336.2000	
Susan Bannister	P.O. Box 1397	Thomasville	GA	31799	229.227.7000	SusanB@Thomasville.org
Don Oliver	616 S. Broad St.	Thomasville	GA	31792	unlisted	doliver@rose.net
Birdsong Nature Center	2106 Meridan Rd	Thomasville	GA	31792	229.377.4408	
Sylvester Public Library	205 E. Pope St.	Sylvester	GA	31791	229.776.2096	
Pelham-Carnegie Library	133 Hand Ave.	Pelham	GA	31779		
Colquitt County Schools	P.O. Box 2708	Moultrie	GA	31776	229.890.6200	www.colquitt.k12.ga.us
Thomas County Library	201 N. Madison St.	Thomasville	GA	31792	229.225.5252	
Kathleen Folsom	2528 S. Pinetree Blvd	Thomasville	GA	31792	229.226.6401	
Todd Engstrom	P.O. Box 890	Thomasville	GA	31799	229.226.4984	
Oil Dry Corp of America	630 Campbell St.	Thomasville	GA	31792	229.226.2059	
Moultrie Chamber of Commerce	116 First Avenue, SE	Moultrie	GA	31776	229.985.2131	www.moultriechamber.com

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EDUCATION/OUTREACH ACTIVITIES

Entity	Description	Impacted Waterbodies*	Target Audience	Anticipated Dates (MM/YY)
Georgia EPD	Adopt-A-Stream	Entire Basin	All Residents	11/02
Friends of the Ochlockonee River	No-profit organization serving the stakeholders	Entire Basin	All Residents	11/02
Ga Forestry Commission	Field Day for Land Owners to demonstrate Georgia BMPs	Entire Basin	All Landowners	02 or 03/03
Thomas University	Develop and Implement educational materials	Entire Basin	All School Children & TV audiences	Pre-proposal: 12/02

POLLUTANT SOURCES

Pollutant	Sources of Pollutants	Description of Contribution To Impairment	Impacted Waterbodies*
DO, FC	Agriculture Non Point	Runoff (?) Failure to prevent runoff from farming &/or livestock operations from entering the creeks	Little Och Rv Thomas Cty
FC	Failing Septic Tanks	Malfunctioning septic tanks causing surface water contamination with bacteria.	All streams
Low DO	Natural	Stream below critical conditions: High temperatures and low flow contribute to low levels of dissolved oxygen in the stream.	

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MANAGEMENT MEASURES, RESPONSIBLE PARTIES, AND MEASURABLE MILESTONES

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Forestry Best Management Practices	GA Forestry Commission GA EPD if enforcement	Protect streamside management zones and maintain canopy during harvesting	Current	In-progress	Voluntary (Violations of "Georgia Water Quality Act" may be pursued)

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	nonpoint	All streams in watershed	EPA identifies silviculture as the lowest contribution source of nonpoint pollution

Measurable Milestones	Schedule		Comments
	Start	End	
Increase in concentration of DO.	01/03	01/05	Education of Land owners & buffer funding requests & adaptive monitoring
Decrease in concentration of FC.			

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/Voluntary
USDA programs applicable to protecting riparian corridors such as the Conservation Reserve Program, Wetlands Reserve Program and Conservation Buffer Initiatives	USDA/NRCS	These programs serve to protect or restore riparian buffers which. These buffers may contain canopies that reduce sunlight penetration, stream warming and reduction of oxygen saturation. The buffers also filter fertilizer and organic wastes from runoff, which may in turn cause excessive algae growth and eventually depressed dissolved oxygen levels. By removing organic wastes, such as manure, the possibility of pathogen introduction is also reduced.	Current	In Progress	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC, DO	Non point	Aucilla R & Olive Ck	

Measurable Milestones	Schedule		Comments
	Start	End	
Decrease in concentration of FC Increase in concentration of DO	01/03	01/05	Education of land owners & Buffer funding requests & adaptive monitoring

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/Voluntary
Reduce Dumping off bridges	Colquitt, Mitchell and Thomas Counties	Reduce trash and carcasses being dumped into the river tributaries-Education and Enforcement programs	Thomas 10/02 Grady & Mitchell Cty ??	In progress & proposed	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	Oils, greases, carcasses	All Streams	Not effective

Measurable Milestones	Schedule		Comments
	Start	End	
Reduction in the amount of trash observed	01/03	01/05	Educational programs, signs. monitoring via photography
Continued reduction of trash observed	01/05	01/12	Continue above actions

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/Projected Date	Status	Regulatory/Voluntary
Reduce runoff from bridges	Colquitt, Mitchell & Thomas Counties	Implement measures to reduce runoff from unimproved and improved county roads	01/05	In planning	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	Runoff from roads	All Streams	Unknown

Measurable Milestones	Schedule		Comments
	Start	End	
Experimental designs started Begin monitoring test sites 01/05	01/05	01/08	Application EPA Wetlands protection grant -pre-proposal 12/02

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/Projected Date	Status	Regulatory/Voluntary
Adaptive monitoring and watershed assesment	Thomas University	Collecting samples upstream from established sites to isolate and identify sources of pollution. EPD will contract with USGS to sample sites initially sampled in 1998. They will employ revised protocols to sample sites to avoid the impacts of extreme low flow or ponding which may have influenced DO samples collected in 1998 and the subsequent assessments for listing on the 303(d).	01/03	In planning	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	To be determined	Entire basin	Anticipated- very effective

Measurable Milestones	Schedule		Comments
	Start	End	
Adaptive monitoring 1 st cycle completed	01/03	01/04	Individuals, local govts, and EPD will be notified of the results
Decrease in concentration of FC Increase in concentration of DO	01/04	01/12	

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Georgia Planning Act	GA DNR, Local governments	To help prevent groundwater contamination, the Georgia Planning Act identifies groundwater recharge areas as critical natural resources and directs steps to help prevent contamination of groundwater. DNR has established minimum criteria for protection of groundwater recharge areas. DNR's minimum standards are to be used in developing and implementing local comprehensive plans. Local governments are directed to incorporate provisions for protection of groundwater recharge areas in local comprehensive plans and to adopt protective ordinances at least as stringent as the state standards developed by DNR. This protection of groundwater recharge should also have a positive although indirect impact on surface water quality.	ASAP	Planning	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC, DO	Runoff & over well pumping	All streams in the basin	Unknown

Measurable Milestones	Schedule		Comments
	Start	End	

Regulations are in force

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POTENTIAL FUNDING SOURCES

Funding Source	Responsible Authority	Status	Anticipated Funding Amount	Impacted Waterbodies*
Georgia EPD	Thomas University	In Planning	??	Entire basin
Archebold hospital Foundation	Friends of the Ochlockonee River	In Planning	??	Entire basin
EPA Wetlands Protection Program Grant	Thomas University	In-Planning	To be determined	Entire basin
EPA 319 Grant	Thomas University & Local Govts	In Planning	To be Determined	Entire Basin
Williams Family Foundation	Friends of the Ochlockonee River	In Planning	To be Determined	Entire Basin
Woodruff Foundation	Thomas University To develop educational Materials	In Planning	To Be Determined	Entire Basin

MONITORING PLAN

Name Of Regulation / Ordinance Or Management Measure	Organization	Impacted Waterbodies*	Pollutants	Purpose/Description	Time Frame		Status (Previous, Current, Proposed)
					Start	End	
Initial monitoring	USGS/EPD	Entire Basin	DO & FC	To establish TMDLs	01/98	12/98	Previous
Selective Monitoring	Thomas University	Entire Basin	DO & FC	To develop monitoring Protocols And establish new monitoring sites	09/02	12/03	Current
EPD Monitoring	Thomas University	Established Sites	DO & FC/EC	To monitor the effectiveness of the above plans	01/03	01/04	Proposed
Adaptive Monitoring	Thomas University	303b streams	DO,FC, Turbidity Nutrients, etc	Identify and locate sources of pollutants in each identified stream	01/03	??	Proposed
Individual Industries	Industries	Various	DO, FC, Turbidity Nutrients	Monitor the affected stream above and below the industry for water quality	01/03	??	Voluntary program

COMMENTS: Before definitive actions can be taken, specific, offenders, land owners, and industries must be identified. The proposed adaptive monitoring procedures will aid in identifying the specific sources of pollutants in streams that have non point pollution sources. With this knowledge, local and state governments will be able to enact existing statutes to correct the problem.

Little Ochlockonee River

NAME	LOCATION	MILES/AREA IMPACTED	CLASSIFICATION	PARTIALLY SUPPORTING/ NON SUPPORTING (PS/NS)
Little Ochlockonee River	Slocumb Branch to downstream SR 111 near Moultrie	9	Fishing	NS
PRIMARY COUNTY	SECONDARY COUNTY	SECOND RDC	SOURCE (POINT/NON-POINT)	
Colquitt			Nonpoint	

POLLUTANTS	WATER QUALITY STANDARDS	REQUIRED REDUCTION	DATE TMDL ESTABLISHED	TMDL ID #
Dissolved Oxygen	5mg/l (daily average) 4 mg/l (minimum). Natural DO lower than state standard. Calculated target DO 1.81 mg/l.	23% (TOC) 23% (TN) 23% (TP)	12/2001	
Fecal Coliform Bacteria	1,000 per 100 ml (geometric mean Nov-April) 200 per 100 ml (geometric mean May-Oct)	78%	6/2000	

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SIGNIFICANT STAKEHOLDERS

Name/Organization	Address	City	State	Zip	Phone	E-Mail
Georgia EPD	4220 Inter. Pkwy Suite 101	Atlanta	GA	30254	404.675.1614	Ted_Mikalson@mail.dnr.state.ga.us
Colquitt County	P.O. Box 517	Moultrie	GA	31776	229.985.4029	
Mitchell County	P.O. Box 187	Camilla	GA	31730	229.336.2000	
Thomas County	225 N. Broad St.	Thomasville	GA	31792	229.225.4100	
City of Pelham	128 W. Railroad St. S	Pelham	GA	31779	229.229.7900	
The Nature Conservancy	18 North Main St.	Moultrie	GA	31768	229.958.8117	www.Georgiaconservancy.org
Tall Timbers Research Station	13093 Henry Beadel Dr.	Tallahassee	FL	32312	850.893.4153	www.talltimbers.org
International Paper	719 Southlands Rd.	Bainbridge	GA	31717	229.246.3642	Rebecca.winn@paper.com
Friends of the Ochlocknee	1501 Millpond Rd.	Thomasville	GA	31792	229.226.1621	
Ga. Forestry Commission	3561 Highway 112	Camilla	GA	31730	229.522.3580	gfindley@gfc.state.ga.us
Southwest Georgia RDC	30 West Broad St.	Camilla	GA	31730	229.522.3552	amacdonald@swgrdc.org
USDA-NRCS	350 E. ByPass NE	Moultrie	GA	31788	229.985.5399	Randall.Odum@gamoultrie.fsa.usda.gov
Richard Royal	6280 Pebble City Rd	Camilla	GA	31730	229.336.7339	
Roger King	2 12 th Avenue S	Moultrie	GA	31778	229.985.0034	
John Bullock	3554 Bullock Rd.	Ochlocknee	GA	31773	229.683.3420	
Brian Marlowe	P.O. Box 517	Moultrie	GA	31776	229.616.7400	
City of Ochlocknee	1044 Railroad St. E	Ochlocknee	GA	31773	229.574.5188	
City of Meigs	1006 E. Depot St.	Meigs	GA	31765	229.683.9807	
Sale City	P.O. Box 187	Camilla	GA	31730	229.336.2000	
Susan Bannister	P.O. Box 1397	Thomasville	GA	31799	229.227.7000	SusanB@Thomasville.org
Don Oliver	616 S. Broad St.	Thomasville	GA	31792	unlisted	doliver@rose.net
Birdsong Nature Center	2106 Meridan Rd	Thomasville	GA	31792	229.377.4408	
Sylvester Public Library	205 E. Pope St.	Sylvester	GA	31791	229.776.2096	
Pelham-Carnegie Library	133 Hand Ave.	Pelham	GA	31779		
Colquitt County Schools	P.O. Box 2708	Moultrie	GA	31776	229.890.6200	www.colquitt.k12.ga.us
Thomas County Library	201 N. Madison St.	Thomasville	GA	31792	229.225.5252	
Kathleen Folsom	2528 S. Pinetree Blvd	Thomasville	GA	31792	229.226.6401	
Todd Engstrom	P.O. Box 890	Thomasville	GA	31799	229.226.4984	
Oil Dry Corp of America	630 Campbell St.	Thomasville	GA	31792	229.226.2059	
Moultrie Chamber of Commerce	116 First Avenue, SE	Moultrie	GA	31776	229.985.2131	www.moultriechamber.com

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EDUCATION/OUTREACH ACTIVITIES

Entity	Description	Impacted Waterbodies*	Target Audience	Anticipated Dates (MM/YY)
Georgia EPD	Adopt-A-Stream	Entire Basin	All Residents	11/02
Friends of the Ochlockonee River	No-profit organization serving the stakeholders	Entire Basin	All Residents	11/02
Ga Forestry Commission	Field Day for Land Owners to demonstrate Georgia BMPs	Entire Basin	All Landowners	02 or 03/03
Thomas University	Develop and Implement educational materials	Entire Basin	All School Children &	Pre-proposal: 12/02

POLLUTANT SOURCES

Pollutant	Sources of Pollutants	Description of Contribution To Impairment	Impacted Waterbodies*
DO, FC	Agriculture Non Point	Runoff (?) Failure to prevent runoff from farming operations from entering the creeks	LittleOch.Rv near Moultrie
FC	Failing Septic Tanks	Malfunctioning septic tanks causing surface water contamination with bacteria.	All streams
Low DO	Natural	Stream below critical conditions: High temperatures and low flow contribute to low levels of dissolved oxygen in the stream.	

MANAGEMENT MEASURES, RESPONSIBLE PARTIES, AND MEASURABLE MILESTONES

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Forestry Best Management Practices	GA Forestry Commission GA EPD if enforcement	Protect streamside management zones and maintain canopy during harvesting	Current	In-progress	Voluntary (Violations of "Georgia Water Quality Act" may be pursued)

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	nonpoint	All streams in watershed	EPA identifies silviculture as the lowest contribution source of nonpoint pollution

Measurable Milestones	Schedule		Comments
	Start	End	
Increase in the concentration of DO of 0.5	01/03	01/05	Education of Land owners & buffer funding requests &
Decrease in concentration of FC			adaptive monitoring

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/Projected Date	Status	Regulatory/Voluntary
USDA programs applicable to protecting riparian corridors such as the Conservation Reserve Program, Wetlands Reserve Program and Conservation Buffer Initiatives	USDA/NRCS	These programs serve to protect or restore riparian buffers which. These buffers may contain canopies that reduce sunlight penetration, stream warming and reduction of oxygen saturation. The buffers also filter fertilizer and organic wastes from runoff, which may in turn cause excessive algae growth and eventually depressed dissolved oxygen levels. By removing organic wastes, such as manure, the possibility of pathogen introduction is also reduced.	Current	In Progress	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC, DO	Non point	All streams	

Measurable Milestones	Schedule		Comments
	Start	End	
Decrease in concentration of FC Increase in concentration of DO	01/03	01/05	Education of land owners & Buffer funding requests & adaptive monitoring

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Reduce Dumping off bridges	Colquitt, Mitchell and Thomas Counties	Reduce trash and carcasses being dumped into the river tributaries-Education and Enforcement programs	Thomas 10/02 Grady & Mitchell Cty ??	In progress proposed	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	Oils, greases, carcasses	All Streams	Not effective

Measurable Milestones	Schedule		Comments
	Start	End	
Reduction in the amount of trash observed	01/03	01/05	Educational programs, signs. monitoring via photography
Continued reduction of trash observed	01/05	01/12	Continue above actions

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Reduce runoff from bridges	Colquitt, Mitchell & Thomas Counties	Implement measures to reduce runoff from unimproved and improved county roads	01/05	In planning	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	Runoff from roads	All Streams	Unknown

Measurable Milestones	Schedule		Comments
	Start	End	
Experimental designs started Begin monitoring test sites 01/05	01/05	01/08	Application EPA Wetlands protection grant -pre-proposal 12/02

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Georgia Planning Act	GA DNR, Local governments	To help prevent groundwater contamination, the Georgia Planning Act identifies groundwater recharge areas as critical natural resources and directs steps to help prevent contamination of groundwater. DNR has established minimum criteria for protection of groundwater recharge areas. DNR's minimum standards are to be used in developing and implementing local comprehensive plans. Local governments are directed to incorporate provisions for protection of groundwater recharge areas in local comprehensive plans and to adopt protective ordinances at least as stringent as the state standards developed by DNR. This protection of groundwater recharge should also have a positive although indirect impact on surface water quality.	ASAP	Planning	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC, DO	Runoff & over well pumping	All streams in the basin	Unknown

Measurable Milestones	Schedule		Comments
	Start	End	

Regulations are in force

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Adaptive monitoring and watershed assesment	Thomas University	Collecting samples upstream from established sites to isolate and identify sources of pollution. EPD will contract with USGS to sample sites initially sampled in 1998. They will employ revised protocols to sample sites to avoid the impacts of extreme low flow or ponding which may have influenced DO samples collected in 1998 and the subsequent assessments for listing on the 303(d).	01/03	In planning	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	To be determined	Entire basin	Anticipated- very effective

Measurable Milestones	Schedule		Comments
	Start	End	
Adaptive monitoring 1 st cycle completed	01/03	01/04	Individuals, local govts, and EPD will be notified of the results
Decrease in concentration of FC Increase in concentration of DO	01/04	01/12	

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POTENTIAL FUNDING SOURCES

Funding Source	Responsible Authority	Status	Anticipated Funding Amount	Impacted Waterbodies*
Georgia EPD	Thomas University	In Planning	??	Entire basin
Archebold hospital Foundation	Friends of the Ochlockonee River	In Planning	??	Entire basin
EPA Wetlands Protection Program Grant	Thomas University	In-Planning	To be determined	Entire basin
EPA 319 Grant	Thomas University & Local Govts	In Planning	To be Determined	Entire Basin
Williams Family Foundation	Friends of the Ochlockonee River	In Planning	To be Determined	Entire Basin
Woodruff Foundation	Thomas University To develop educational Materials	In Planning	To Be Determined	Entire Basin

MONITORING PLAN

Name Of Regulation / Ordinance Or Management Measure	Organization	Impacted Waterbodies*	Pollutants	Purpose/Description	Time Frame		Status (Previous, Current, Proposed)
					Start	End	
Initial monitoring	USGS/EPD	Entire Basin	DO & FC	To establish TMDLs	01/98	12/98	Previous
Selective Monitoring	Thomas University	Entire Basin	DO & FC	To develop monitoring Protocols And establish new monitoring sites	09/02	12/03	Current
EPD Monitoring	Thomas University	Established Sites	DO & FC/EC	To monitor the effectiveness of the above plans	01/03	01/04	Proposed
Adaptive Monitoring	Thomas University	303b streams	DO,FC, Turbidity Nutrients, etc	Identify and locate sources of pollutants in each identified stream	01/03	??	Proposed
Individual Industries	Industries	Various	DO, FC, Turbidity Nutrients	Monitor the affected stream above and below the industry for water quality	01/03	??	Voluntary program

COMMENTS: Before definitive actions can be taken, specific, offenders, land owners, and industries must be identified. The proposed adaptive monitoring procedures will aid in identifying the specific sources of pollutants in streams that have non point pollution sources. With this knowledge, local and state governments will be able to enact or enforce existing statutes to correct the problem.

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Big Creek

NAME	LOCATION	MILES/AREA IMPACTED	CLASSIFICATION	PARTIALLY SUPPORTING/ NON SUPPORTING (PS/NS)
Big Creek	Headwaters to Little Cr. near Meigs	12	Fishing	NS
PRIMARY COUNTY	SECONDARY COUNTY	SECOND RDC	SOURCE (POINT/NON-POINT)	
Mitchell	Thomas		NONPOINT	

POLLUTANTS	WATER QUALITY STANDARDS	REQUIRED REDUCTION	DATE TMDL ESTABLISHED	TMDL ID #
Dissolved Oxygen	5mg/l (daily average) 4 mg/l (minimum). Natural DO lower than state standard. Calculated target DO 0.77 mg/l.	28% (TOC) 28% (TN) 28% (TP)	12/2001	
Fecal Coliform Bacteria	1,000 per 100 ml (geometric mean Nov-April) 200 per 100 ml (geometric mean May-Oct)	71%	6/2000	

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SIGNIFICANT STAKEHOLDERS

Name/Organization	Address	City	State	Zip	Phone	E-Mail
Georgia EPD	4220 Inter. Pkwy Suite 101	Atlanta	GA	30254	404.675.1614	Ted_Mikalson@mail.dnr.state.ga.us
Colquitt County	P.O. Box 517	Moultrie	GA	31776	229.985.4029	
Mitchell County	P.O. Box 187	Camilla	GA	31730	229.336.2000	
Thomas County	225 N. Broad St.	Thomasville	GA	31792	229.225.4100	
City of Pelham	128 W. Railroad St. S	Pelham	GA	31779	229.229.7900	
The Nature Conservancy	18 North Main St.	Moultrie	GA	31768	229.958.8117	www.Georgiaconservancy.org
Tall Timbers Research Station	13093 Henry Beadel Dr.	Tallahassee	FL	32312	850.893.4153	www.talltimbers.org
International Paper	719 Southlands Rd.	Bainbridge	GA	31717	229.246.3642	Rebecca.winn@paper.com
Friends of the Ochlocknee	1501 Millpond Rd.	Thomasville	GA	31792	229.226.1621	
Ga. Forestry Commission	3561 Highway 112	Camilla	GA	31730	229.522.3580	gfindley@gfc.state.ga.us
Southwest Georgia RDC	30 West Broad St.	Camilla	GA	31730	229.522.3552	amacdonald@swgrdc.org
USDA-NRCS	350 E. ByPass NE	Moultrie	GA	31788	229.985.5399	Randall.Odum@gamoultrie.fsa.usda.gov
Richard Royal	6280 Pebble City Rd	Camilla	GA	31730	229.336.7339	
Roger King	2 12 th Avenue S	Moultrie	GA	31778	229.985.0034	
John Bullock	3554 Bullock Rd.	Ochlocknee	GA	31773	229.683.3420	
Brian Marlowe	P.O. Box 517	Moultrie	GA	31776	229.616.7400	
City of Ochlocknee	1044 Railroad St. E	Ochlocknee	GA	31773	229.574.5188	
City of Meigs	1006 E. Depot St.	Meigs	GA	31765	229.683.9807	
Sale City	P.O. Box 187	Camilla	GA	31730	229.336.2000	
Susan Bannister	P.O. Box 1397	Thomasville	GA	31799	229.227.7000	SusanB@Thomasville.org
Don Oliver	616 S. Broad St.	Thomasville	GA	31792	unlisted	doliver@rose.net
Birdsong Nature Center	2106 Meridan Rd	Thomasville	GA	31792	229.377.4408	
Sylvester Public Library	205 E. Pope St.	Sylvester	GA	31791	229.776.2096	
Pelham-Carnegie Library	133 Hand Ave.	Pelham	GA	31779		
Colquitt County Schools	P.O. Box 2708	Moultrie	GA	31776	229.890.6200	www.colquitt.k12.ga.us
Thomas County Library	201 N. Madison St.	Thomasville	GA	31792	229.225.5252	
Kathleen Folsom	2528 S. Pinetree Blvd	Thomasville	GA	31792	229.226.6401	
Todd Engstrom	P.O. Box 890	Thomasville	GA	31799	229.226.4984	
Oil Dry Corp of America	630 Campbell St.	Thomasville	GA	31792	229.226.2059	
Moultrie Chamber of Commerce	116 First Avenue, SE	Moultrie	GA	31776	229.985.2131	www.moultriechamber.com

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EDUCATION/OUTREACH ACTIVITIES

Entity	Description	Impacted Waterbodies*	Target Audience	Anticipated Dates (MM/YY)
Georgia EPD	Adopt-A-Stream	Entire Basin	All Residents	11/02
Friends of the Ochlockonee River	No-profit organization serving the stakeholders	Entire Basin	All Residents	11/02
Ga Forestry Commission	Field Day for Land Owners to demonstrate Georgia BMPs	Entire Basin	All Landowners	02 or 03/03
Thomas University	Develop and Implement educational materials	Entire Basin	All School Children & TV audiences	Pre-proposal: 12/02

POLLUTANT SOURCES

Pollutant	Sources of Pollutants	Description of Contribution To Impairment	Impacted Waterbodies*
DO, FC	Agriculture Non Point	Runoff (?) Failure to prevent runoff from farming &/or livestock operations from entering the creeks	Big Creek
FC	Failing Septic Tanks	Malfunctioning septic tanks causing surface water contamination with bacteria.	All streams
Low DO	Natural	Stream below critical conditions: High temperatures and low flow contribute to low levels of dissolved oxygen in the stream.	Big Creek

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MANAGEMENT MEASURES, RESPONSIBLE PARTIES, AND MEASURABLE MILESTONES

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Forestry Best Management Practices	GA Forestry Commission GA EPD if enforcement	Protect streamside management zones and maintain canopy during harvesting	Current	In-progress	Voluntary (Violations of "Georgia Water Quality Act" may be pursued)

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	nonpoint	All streams in watershed	EPA identifies silviculture as the lowest contribution source of nonpoint pollution

Measurable Milestones	Schedule		Comments
	Start	End	
Increase in concentration of DO	01/03	01/05	Education of Land owners & buffer funding requests & adaptive monitoring
Decrease in the concentration of FC			

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Adaptive monitoring and watershed assesment	Thomas University	Collecting samples upstream from established sites to isolate and identify sources of pollution. EPD will contract with USGS to sample sites initially sampled in 1998. They will employ revised protocols to sample sites to avoid the impacts of extreme low flow or ponding which may have influenced DO samples collected in 1998 and the subsequent assessments for listing on the 303(d).	01/03	In planning	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	To be determined	Entire basin	Anticipated- very effective

Measurable Milestones	Schedule		Comments
	Start	End	
Adaptive monitoring 1 st cycle completed	01/03	01/04	Individuals, local govts, and EPD will be notified of the results
Decrease in concentration of FC Increase in concentration of DO	01/04	01/12	

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/Projected Date	Status	Regulatory/Voluntary
USDA programs applicable to protecting riparian corridors such as the Conservation Reserve Program, Wetlands Reserve Program and Conservation Buffer Initiatives	USDA/NRCS	These programs serve to protect or restore riparian buffers which. These buffers may contain canopies that reduce sunlight penetration, stream warming and reduction of oxygen saturation. The buffers also filter fertilizer and organic wastes from runoff, which may in turn cause excessive algae growth and eventually depressed dissolved oxygen levels. By removing organic wastes, such as manure, the possibility of pathogen introduction is also reduced.	Current	In Progress	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC, DO	Non point	All streams	

Measurable Milestones	Schedule		Comments
	Start	End	
Decrease in concentration of FC Increase in concentration of DO	01/03	01/05	Education of land owners & Buffer funding requests & adaptive monitoring

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Reduce Dumping off bridges	Colquitt, Mitchell and Thomas Counties	Reduce trash and carcasses being dumped into the river tributaries-Education and Enforcement programs	Thomas 10/02 Grady & Mitchell Cty ??	In progress & proposed	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	Oils, greases, carcasses	All Streams	Not effective

Measurable Milestones	Schedule		Comments
	Start	End	
Reduction in the amount of trash observed	01/03	01/05	Educational programs, signs. monitoring via photography
Continued reduction of trash observed	01/05	01/12	Continue above actions

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Reduce runoff from bridges	Colquitt, Mitchell & Thomas Counties	Implement measures to reduce runoff from unimproved and improved county roads	01/05	In planning	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	Runoff from roads	All Streams	Unknown

Measurable Milestones	Schedule		Comments
	Start	End	
Experimental designs started Begin monitoring test sites 01/05	01/05	01/08	Application EPA Wetlands protection grant -pre-proposal 12/02

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Georgia Planning Act	GA DNR, Local governments	To help prevent groundwater contamination, the Georgia Planning Act identifies groundwater recharge areas as critical natural resources and directs steps to help prevent contamination of groundwater. DNR has established minimum criteria for protection of groundwater recharge areas. DNR's minimum standards are to be used in developing and implementing local comprehensive plans. Local governments are directed to incorporate provisions for protection of groundwater recharge areas in local comprehensive plans and to adopt protective ordinances at least as stringent as the state standards developed by DNR. This protection of groundwater recharge should also have a positive although indirect impact on surface water quality.	ASAP	Planning	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC, DO	Runoff & over well pumping	All streams in the basin	Unknown

Measurable Milestones	Schedule		Comments
	Start	End	

Regulations are in force

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POTENTIAL FUNDING SOURCES

Funding Source	Responsible Authority	Status	Anticipated Funding Amount	Impacted Waterbodies*
Georgia EPD	Thomas University	In Planning	??	Entire basin
Archebold hospital Foundation	Friends of the Ochlockonee River	In Planning	??	Entire basin
EPA Wetlands Protection Program Grant	Thomas University	In-Planning	To be determined	Entire basin
EPA 319 Grant	Thomas University & Local Govts	In Planning	To be Determined	Entire Basin
Williams Family Foundation	Friends of the Ochlockonee River	In Planning	To be Determined	Entire Basin
Woodruff Foundation	Thomas University To develop educational Materials	In Planning	To Be Determined	Entire Basin

MONITORING PLAN

Name Of Regulation / Ordinance Or Management Measure	Organization	Impacted Waterbodies*	Pollutants	Purpose/Description	Time Frame		Status (Previous, Current, Proposed)
					Start	End	
Initial monitoring	USGS/EPD	Entire Basin	DO & FC	To establish TMDLs	01/98	12/98	Previous
Selective Monitoring	Thomas University	Entire Basin	DO & FC	To develop monitoring Protocols And establish new monitoring sites	09/02	12/03	Current
EPD Monitoring	Thomas University	Established Sites	DO & FC/EC	To monitor the effectiveness of the above plans	01/03	01/04	Proposed
Adaptive Monitoring	Thomas University	303b streams	DO,FC, Turbidity Nutrients, etc	Identify and locate sources of pollutants in each identified stream	01/03	??	Proposed
Individual Industries	Industries	Various	DO, FC, Turbidity Nutrients	Monitor the affected stream above and below the industry for water quality	01/03	??	Voluntary program

COMMENTS: Before definitive actions can be taken, specific, offenders, land owners, and industries must be identified. The proposed adaptive monitoring procedures will aid in identifying the specific sources of pollutants in streams that have non point pollution sources. With this knowledge, local and state governments will be able to enact or enforce existing statutes to correct the problem..

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Lost Creek

NAME	LOCATION	MILES/AREA IMPACTED	CLASSIFICATION	PARTIALLY SUPPORTING/ NON SUPPORTING (PS/NS)
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Lost Creek	Upstream Ga. Hwy. 93 N.E. of Cotton to Little Ochlockonee River	9	Fishing	NS
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PRIMARY COUNTY	SECONDARY COUNTY	SECOND RDC	SOURCE (POINT/NON-POINT)
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Mitchell	Colquitt		Nonpoint
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POLLUTANTS	WATER QUALITY STANDARDS	REQUIRED REDUCTION	DATE TMDL ESTABLISHED
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Dissolved Oxygen	5mg/l (daily average) 4 mg/l (minimum). Natural DO lower than state standard. Calculated target DO 1.57 mg/l.	19% (TOC) 19% (TN) 19% (TP)	12/2001
Fecal Coliform Bacteria	1,000 per 100 ml (geometric mean Nov-April) 200 per 100 ml (geometric mean May-Oct)	73%	6/2000

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SIGNIFICANT STAKEHOLDERS

Name/Organization	Address	City	State	Zip	Phone	E-Mail
Georgia EPD	4220 Inter. Pkwy Suite 101	Atlanta	GA	30254	404.675.1614	Ted_Mikalson@mail.dnr.state.ga.us
Colquitt County	P.O. Box 517	Moultrie	GA	31776	229.985.4029	
Mitchell County	P.O. Box 187	Camilla	GA	31730	229.336.2000	
Thomas County	225 N. Broad St.	Thomasville	GA	31792	229.225.4100	
City of Pelham	128 W. Railroad St. S	Pelham	GA	31779	229.229.7900	
The Nature Conservancy	18 North Main St.	Moultrie	GA	31768	229.958.8117	www.Georgiaconservancy.org
Tall Timbers Research Station	13093 Henry Beadel Dr.	Tallahassee	FL	32312	850.893.4153	www.talltimbers.org
International Paper	719 Southlands Rd.	Bainbridge	GA	31717	229.246.3642	Rebecca.winn@paper.com
Friends of the Ochlockonee	1501 Millpond Rd.	Thomasville	GA	31792	229.226.1621	
Ga. Forestry Commission	3561 Highway 112	Camilla	GA	31730	229.522.3580	gfindley@gfc.state.ga.us
Southwest Georgia RDC	30 West Broad St.	Camilla	GA	31730	229.522.3552	amacdonald@swgrdc.org
USDA-NRCS	350 E. ByPass NE	Moultrie	GA	31788	229.985.5399	Randall.Odum@gamoultrie.fsa.usda.gov
Richard Royal	6280 Pebble City Rd	Camilla	GA	31730	229.336.7339	
Roger King	2 12 th Avenue S	Moultrie	GA	31778	229.985.0034	
John Bullock	3554 Bullock Rd.	Ochlocknee	GA	31773	229.683.3420	
Brian Marlowe	P.O. Box 517	Moultrie	GA	31776	229.616.7400	
City of Ochlocknee	1044 Railroad St. E	Ochlocknee	GA	31773	229.574.5188	
City of Meigs	1006 E. Depot St.	Meigs	GA	31765	229.683.9807	
Sale City	P.O. Box 187	Camilla	GA	31730	229.336.2000	
Susan Bannister	P.O. Box 1397	Thomasville	GA	31799	229.227.7000	SusanB@Thomasville.org
Don Oliver	616 S. Broad St.	Thomasville	GA	31792	unlisted	doliver@rose.net
Birdsong Nature Center	2106 Meridan Rd	Thomasville	GA	31792	229.377.4408	
Sylvester Public Library	205 E. Pope St.	Sylvester	GA	31791	229.776.2096	
Pelham-Carnegie Library	133 Hand Ave.	Pelham	GA	31779		
Colquitt County Schools	P.O. Box 2708	Moultrie	GA	31776	229.890.6200	www.colquitt.k12.ga.us
Thomas County Library	201 N. Madison St.	Thomasville	GA	31792	229.225.5252	
Kathleen Folsom	2528 S. Pinetree Blvd	Thomasville	GA	31792	229.226.6401	
Todd Engstrom	P.O. Box 890	Thomasville	GA	31799	229.226.4984	
Oil Dry Corp of America	630 Campbell St.	Thomasville	GA	31792	229.226.2059	
Moultrie Chamber of Commerce	116 First Avenue, SE	Moultrie	GA	31776	229.985.2131	www.moultriechamber.com

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EDUCATION/OUTREACH ACTIVITIES

Entity	Description	Impacted Waterbodies*	Target Audience	Anticipated Dates (MM/YY)
Georgia EPD	Adopt-A-Stream	Entire Basin	All Residents	11/02
Friends of the Ochlockonee River	No-profit organization serving the stakeholders	Entire Basin	All Residents	11/02
Ga Forestry Commission	Field Day for Land Owners to demonstrate Georgia BMPs	Entire Basin	All Landowners	02 or 03/03
Thomas University	Develop and Implement educational materials	Entire Basin	All School Children & TV audiences	Pre-proposal: 12/02

POLLUTANT SOURCES

Pollutant	Sources of Pollutants	Description of Contribution To Impairment	Impacted Waterbodies*
DO, FC	Agriculture Non Point	Runoff (?) Failure to prevent runoff from farming operations from entering the creeks	Lost Creek
FC	Failing Septic Tanks	Malfunctioning septic tanks causing surface water contamination with bacteria.	All streams
Low DO	Natural	Stream below critical conditions: High temperatures and low flow contribute to low levels of dissolved oxygen in the stream.	

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MANAGEMENT MEASURES, RESPONSIBLE PARTIES, AND MEASURABLE MILESTONES

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Forestry Best Management Practices	GA Forestry Commission GA EPD if enforcement	Protect streamside management zones and maintain canopy during harvesting	Current	In-progress	Voluntary (Violations of "Georgia Water Quality Act" may be pursued)

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	nonpoint	All streams in watershed	EPA identifies silviculture as the lowest contribution source of nonpoint pollution

Measurable Milestones	Schedule		Comments
	Start	End	
Increase in concentration of DO	01/03	01/05	Education of Land owners & buffer funding requests & adaptive monitoring
Decrease in concentration of FC			

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Adaptive monitoring and watershed assesment	Thomas University	Collecting samples upstream from established sites to isolate and identify sources of pollution. EPD will contract with USGS to sample sites initially sampled in 1998. They will employ revised protocols to sample sites to avoid the impacts of extreme low flow or ponding which may have influenced DO samples collected in 1998 and the subsequent assessments for listing on the 303(d).	01/03	In planning	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	To be determined	Entire basin	Anticipated- very effective

Measurable Milestones	Schedule		Comments
	Start	End	
Adaptive monitoring 1 st cycle completed	01/03	01/04	Individuals, local govts, and EPD will be notified of the results
Decrease in concentration of FC Increase in concentration of DO	01/04	01/12	

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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/Projected Date	Status	Regulatory/Voluntary
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Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC, DO	Non point	All streams	

Measurable Milestones	Schedule		Comments
	Start	End	
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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Reduce Dumping off bridges	Colquitt, Mitchell and Thomas Counties	Reduce trash and carcasses being dumped into the river tributaries-Education and Enforcement programs	Thomas 10/02 Grady & Mitchell Cty ??	In progress proposed	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	Oils, greases, carcasses	All Streams	Not effective

Measurable Milestones	Schedule		Comments
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Continued reduction of trash observed	01/05	01/12	Continue above actions

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Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC, DO	Runoff & over well pumping	All streams in the basin	Unknown

Measurable Milestones	Schedule		Comments
	Start	End	

Regulations are in force

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POTENTIAL FUNDING SOURCES

Funding Source	Responsible Authority	Status	Anticipated Funding Amount	Impacted Waterbodies*
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EPA 319 Grant	Thomas University & Local Govts	In Planning	To be Determined	Entire Basin
Williams Family Foundation	Friends of the Ochlockonee River	In Planning	To be Determined	Entire Basin
Woodruff Foundation	Thomas University To develop educational Materials	In Planning	To Be Determined	Entire Basin

MONITORING PLAN

Name Of Regulation / Ordinance Or Management Measure	Organization	Impacted Waterbodies*	Pollutants	Purpose/Description	Time Frame		Status (Previous, Current, Proposed)
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EPD Monitoring	Thomas University	Established Sites	DO & FC/EC	To monitor the effectiveness of the above plans	01/03	01/04	Proposed
Adaptive Monitoring	Thomas University	303b streams	DO,FC, Turbidity Nutrients, etc	Identify and locate sources of pollutants in each identified stream	01/03	??	Proposed
Individual Industries	Industries	Various	DO, FC, Turbidity Nutrients	Monitor the affected stream above and below the industry for water quality	01/03	??	Voluntary program

COMMENTS: Before definitive actions can be taken, specific, offenders, land owners, and industries must be identified. The proposed adaptive monitoring procedures will aid in identifying the specific sources of pollutants in streams that have non point pollution sources. With this knowledge, local and state governments will be able to enact or enforce existing statutes to correct the problem..

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**Environmental Protection Division of the Department of Natural Resources,
State of Georgia.**