

**STATE OF GEORGIA**  
**TMDL IMPLEMENTATION PLAN**  
**WATERSHED APPROACH**  
**Ochlockonee River Basin**

Local Watershed Governments

- Decatur County
- Grady County
- City of Attapulgus
- 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.

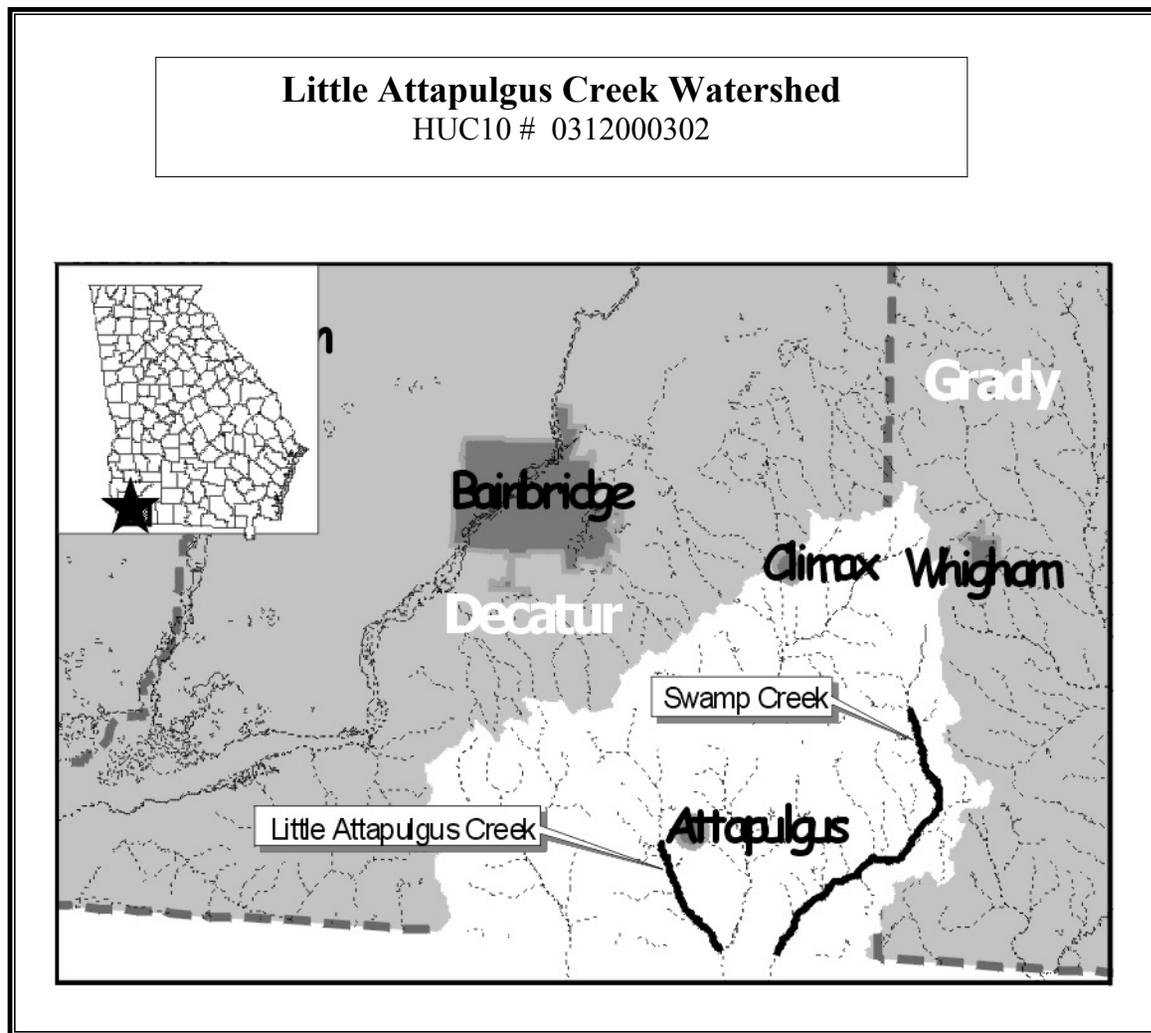


FIGURE 1

Impaired Waterbody*	Impaired Stream Location	Impairment
1. Little Attapulgus Creek	Downstream Crescent Lake to Attapulgus Creek	Fecal Coliform Bacteria
2. Swamp Creek	SR 262 to Stateline	Dissolved Oxygen, Fecal Coliform Bacteria

\*These Waterbody Numbers are referenced throughout the Implementation Plan.

# Action Plan for Little Attapulgus Creek 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 in 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.

<b>Responsible Organization Or Entity</b>	<b>Description</b>	<b>Impacted Waterbodies*</b>	<b>Target Audience</b>	<b>Anticipated Dates (MM/YY)</b>
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	30354	404.675.1614	<a href="mailto:Ted_Mikalsen@mail.dnr.state.ga.us">Ted_Mikalsen@mail.dnr.state.ga.us</a>
Grady County	250 N. Broad St.	Cairo	GA	39828	229.377.1512	
Southwest Georgia RDC	30 West Broad St.	Camilla	GA	31730	229.522.3552	<a href="mailto:amacdonald@swgrdc.org">amacdonald@swgrdc.org</a>
Ga. Forestry Commission	3561 Highway 112	Camilla	GA	31730	229.522.3580	<a href="mailto:gfindley@gfc.state.ga.us">gfindley@gfc.state.ga.us</a>
USDA NRCS		Bainbridge	GA	31717		
City of Cairo	119 N. Broad St.	Cairo	GA	31728	229.377.1722	
City of Whigham	108 W. Broad St.	Whigham	GA	31797	229.762.4215	
The Nature Conservancy	18 North Main St.	Moultrie	GA	31768	229.985.8117	<a href="http://www.Georgiaconservancy.org">www.Georgiaconservancy.org</a>
Tall Timbers Research Station	13093 Henry Beadel Dr.	Tallahassee	FL	32312	850.893.4153	<a href="http://www.talltimbers.org">www.talltimbers.org</a>
International Paper	719 Southlands Rd.	Bainbridge	GA	31717	229.246.3642	<a href="mailto:Rebecca.winn@paper.com">Rebecca.winn@paper.com</a>
Friends of the Ochlockonee	1501 Millpond Rd.	Thomasville	GA	31792	229.226.1621	
POWR	No regular address	Whigham	Ga	31797	229.762.3290	<a href="http://www.POWR2002@aol.com">www.POWR2002@aol.com</a>
Tim Golden	321 Legislative Office Bldg	Atlanta	GA	30334		
Wallace Sholar	P.O. Box 868	Cairo	GA	39828	229.277.6200	
John Bullock	Bullock Rd.	Meigs	GA	31765	229.683.3420	
Attapulgus Research Center	P.O. Box 189	Attapulgus	GA	31715		
Heirs Land Corporation	112 Turner Williams Loop	Attapulgus	GA	31715		
Marie Mack	P.O. 367	Attapulgus	GA	31715		
Nelda Aycock	298 Pine Cone Lane	Cairo	GA	39828	229.377.5956	
Luther Dollar	2809 Slash Avenue	Cairo	GA	31738	229.377.5857	<a href="http://www.LutherDollar@msn.com">www.LutherDollar@msn.com</a>
Rick McCaskill	P.O. Box 387	Cairo	GA	31728	229.378.8166	
Grady Farm Bureau	Box 547	Cairo	GA	31728	229.377.4142	
Grady Cty Health Dept.	1030 4 <sup>th</sup> St. SE	Cairo	GA	31728	229.377-2992	
Englehart Mining Company						
Decatur County Commissioners	P.O. Box 735	Bainbridge	GA	31718		
Southwest GA Regional Library	301 Monroe St.	Bainbridge	GA	31718		
City of Attapulgus	Attapulgus		GA			
Decatur County Health Dept.						
Rufus Powell	P.O. Box 735	Bainbridge	GA	31718		
Lamar Crosby	1069 Tired Creek Rd.	Whigham	GA	39897		
Spring Creek Water Task Force	P.O. Box 1042	Bainbridge	GA	31718		

**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. Data that placed stream on 303(d) list will be provided upon request.

Waterbody Name #1	Location	Miles/Area Impacted	Use Classification	Partially Supporting/ Not Supporting (PS/NS)
Little Attapulgus Creek	Downstream Crescent Lake to Attapulgus Creek	4	Fishing	NS
Primary County	Secondary County	Second RDC	Source (Point/ Nonpoint)	
Decatur			Nonpoint	

Pollutants	Water Quality Standards	Required Reduction	TMDL ID	Date TMDL Established
Fecal Coliform	1,000 per 100 ml (geometric mean Nov-April)	52%		12/2001
Bacteria	200 per 100 ml (geometric mean May-Oct)			

Waterbody Name #2	Location	Miles/Area Impacted	Use Classification	Partially Supporting/ Not Supporting (PS/NS)
Swamp Creek	SR 262 to stateline	4	Fishing	NS
Primary County	Secondary County	Second RDC	Source (Point/ Nonpoint)	
Grady	Decatur		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.	55% TOC (lb/yr) 59% TN (lb/yr) 65% TP (lb/yr)		12/2001
Fecal Coliform	1,000 per 100 ml (geometric mean Nov-April)	19%		6/2000
Bacteria	200 per 100 ml (geometric mean May-Oct)			

## 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 )

<b>Pollutant</b>	<b>Sources of Pollutants</b>	<b>Description of Contribution To Impairment</b>	<b>Impacted Waterbodies*</b>
Fecal Coliform	Agriculture Non point	Runoff (?) Failure to prevent runoff from farming &/or livestock operations from entering the creeks.	Little Attapulcus Creek
	Industry- Mining Operations	Runoff (?) Complaints of excess runoff from these operations have been received. Monitoring needs to be conducted to verify these complaints.	
FC	Failing Septic Tanks	Malfunctioning septic tanks causing surface water contamination with bacteria.	Lt. Attapulcus R & Swamp Ck
Dissolved Oxygen & Fecal Coliform	Agriculture Non point	Fecal Coliform in excess of State Standards- Does not support Fishing Dissolved Oxygen does not meet state standards-Does not support Fishing Runoff (?) Complaints of excess runoff from Chicken House manure being applied in the watershed. (Adaptive monitoring needs to be conducted to isolate the problem areas.)	Swamp Creek
Low DO	Natural	Stream below critical conditions: High temperatures and low flow contribute to low levels of dissolved oxygen in the stream.	

## 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 & Fecal Coliform	nonpoint	Swamp Creek & Little Attapulgus	Unknown

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

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
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FC, DO	Non point	All streams	
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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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Watershed	Little Attapulcus Cr.
HUC 10	0312000302

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Reduce Dumping off bridges	Grady, & Decatur Counties	Reduce trash and dead animals being dumped into the river tributaries- Education and enforcement programs	??	Proposed	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
DO, FC	Oils, greases, dead bodies	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	Grady & Decatur Counties	Implement measures to reduce runoff from un-Improved 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	01/05	01/08	Application for EPA Wetlands Protection grant- pre-proposal 12/02
Begin monitoring test sites	01/05		

Watershed	Little Attapulcus Cr.
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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

Watershed HUC 10	Little Attapulcus Cr. 0312000302
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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 <sup>st</sup> cycle completed	01/03	01/04	Individuals, local govts, and EPd will be notified of the results
Increase in concentration of DO Decrease in concentration of FC	01/03	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	Preliminary Proposal Due on 02/12/02	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



### 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. (Swamp Creek)  
Decreasing trend in FC over a period of time. (Swamp Creek & Little Attapulugus)

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*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.*

- Categorical change in classification of the stream (delisting the stream is the goal) DO >Target of 2.61mg/L (Swamp Creek)  
Fecal Coliform geometric mean is within state guidelines. (Swamp Creek & Little Attapulugus)

- Regulatory controls or activities installed (ordinances, laws) Antidumping ordinances enacted and enforced by all counties. (similar to Thomas County)  
BMPs for forestry, agriculture, and land disturbing activities integrated in all of the 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  
Urban BMPs being followed-increased DO & decreased FC downstream.

### COMMENTS

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Before definitive actions can be undertaken, 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. With this knowledge, local and state governments will be able to enact or enforce exiting statutes to correct the problems.

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Watershed	Little Attapulgus Cr.
HUC 10	0312000302

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Agency:	<u>Thomas University</u>
Address:	<u>1501 Millpond Road</u>
City:	<u>Thomasville</u> ST: <u>GA</u> ZIP: <u>31792</u>
E-mail:	
Date Submitted to EPD:	<u>12/19/20 as per EPD modifications</u>

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!**

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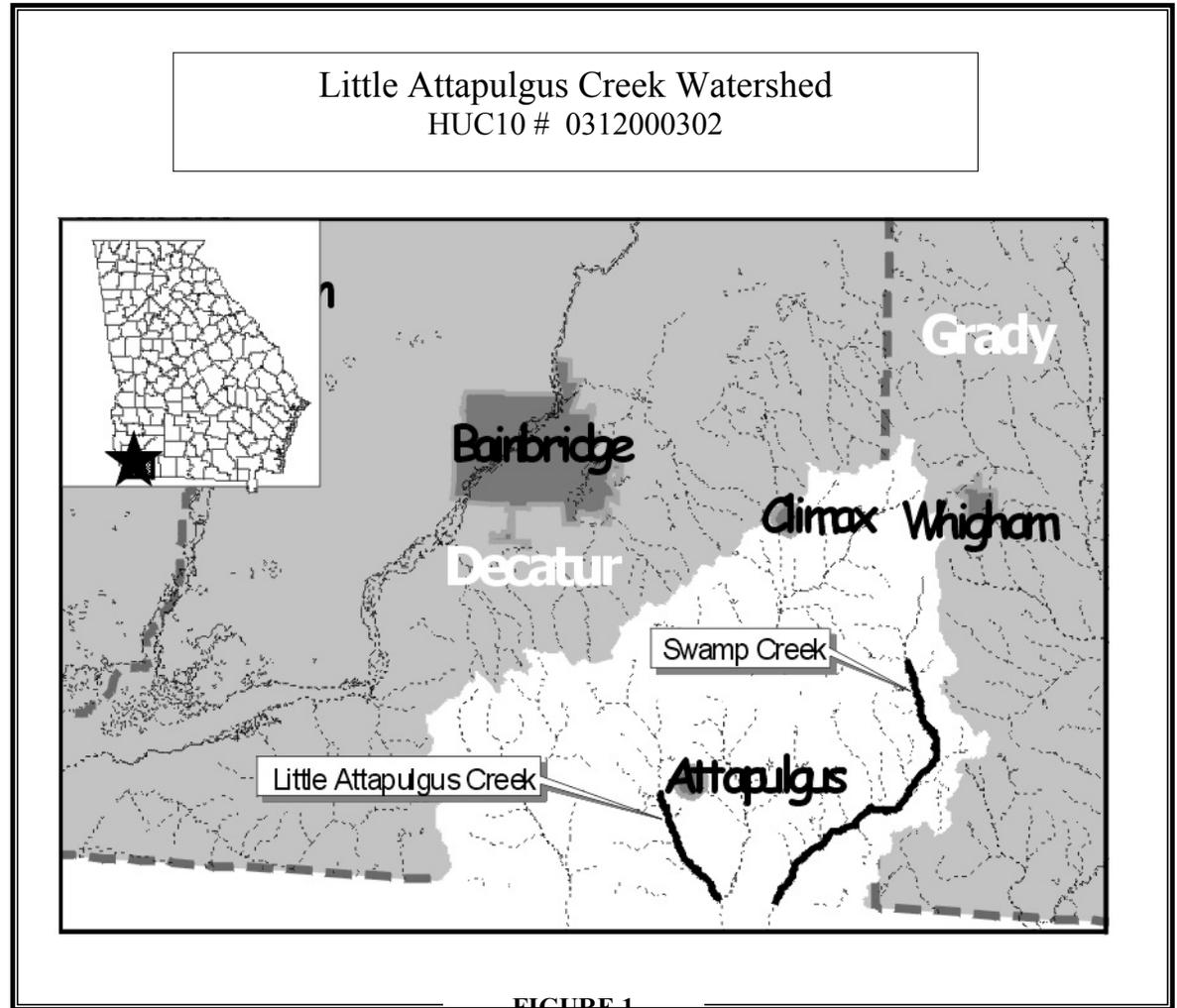
ATTACHMENT A:  
STREAM APPROACH

**STATE OF GEORGIA  
TMDL IMPLEMENTATION PLAN  
OCHLOCKONEE 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.



**FIGURE 1**

Impaired Waterbody*	Location	Impairment
1. Little Attapulgus Creek	Downstream Crescent Lake to Attapulgus Creek	Fecal Coliform Bacteria
2. Swamp Creek	SR 262 to Stateline	Dissolved Oxygen, Fecal Coliform Bacteria

\*These Waterbody Numbers are referenced throughout the implementation plan.

Ochlockonee River Basin  
TMDL Implementation Plan  
Little Attapulgus Creek Watershed  
HUC 10 0312000302

**Little Attapulgus Creek**

<b>NAME</b>	<b>LOCATION</b>	<b>MILES/AREA IMPACTED</b>	<b>CLASSIFICATION</b>	<b>PARTIALLY SUPPORTING/ NON SUPPORTING (PS/NS)</b>
Little Attapulgus Creek	Downstream Crescent Lake to Attapulgus Creek	4	Fishing	NS

<b>PRIMARY COUNTY</b>	<b>SECONDARY COUNTY</b>	<b>SECOND RDC</b>	<b>SOURCE (POINT/NON-POINT)</b>
Decatur			Nonpoint

<b>POLLUTANTS</b>	<b>WATER QUALITY STANDARDS</b>	<b>REQUIRED REDUCTION</b>
Fecal Coliform Bacteria	1,000 per 100 ml (geometric mean Nov- April) 200 per 100 ml (geometric mean May- Oct)	52%

<b>TMDL ID #</b>	<b>DATE TMDL ESTABLISHED</b>
	12/2001

Ochlockonee River Basin  
TMDL Implementation Plan  
Little Attapulcus Creek Watershed  
HUC 10 0312000302

**SIGNIFICANT STAKEHOLDERS**

<b>Name/Organization</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip</b>	<b>Phone</b>	<b>E-Mail</b>
Georgia EPD	4220 Inter. Pkwy Suite 101	Atlanta	GA	30354	404.675.1614	<a href="mailto:Ted_Mikalsen@mail.dnr.state.ga.us">Ted_Mikalsen@mail.dnr.state.ga.us</a>
Grady County	250 N. Broad St.	Cairo	GA	39828	229.377.1512	
Southwest Georgia RDC	30 West Broad St.	Camilla	GA	31730	229.522.3552	<a href="mailto:amacdonald@swgrdc.org">amacdonald@swgrdc.org</a>
Ga. Forestry Commission	3561 Highway 112	Camilla	GA	31730	229.522.3580	<a href="mailto:gfindley@gfc.state.ga.us">gfindley@gfc.state.ga.us</a>
USDA NRCS		Bainbridge	GA	31717		
City of Cairo	119 N. Broad St.	Cairo	GA	31728	229.377.1722	
City of Whigham	108 W. Broad St.	Whigham	GA	31797	229.762.4215	
The Nature Conservancy	18 North Main St.	Moultrie	GA	31768	229.985.8117	<a href="http://www.Georgiaconservancy.org">www.Georgiaconservancy.org</a>
Tall Timbers Research Station	13093 Henry Beadel Dr.	Tallahassee	FL	32312	850.893.4153	<a href="http://www.talltimbers.org">www.talltimbers.org</a>
International Paper	719 Southlands Rd.	Bainbridge	GA	31717	229.246.3642	<a href="mailto:Rebecca.winn@paper.com">Rebecca.winn@paper.com</a>
Friends of the Ochlockonee	1501 Millpond Rd.	Thomasville	GA	31792	229.226.1621	
POWR	No regular address	Whigham	Ga	31797	229.762.3290	<a href="http://www.POWR2002@aol.com">www.POWR2002@aol.com</a>
Tim Golden	321 Legislative Office Bldg	Atlanta	GA	30334		
Wallace Sholar	P.O. Box 868	Cairo	GA	39828	229.277.6200	
John Bullock	Bullock Rd.	Meigs	GA	31765	229.683.3420	
Attapulcus Research Center	P.O. Box 189	Attapulcus	GA	31715		
Heirs Land Corporation	112 Turner Williams Loop	Attapulcus	GA	31715		
Marie Mack	P.O. 367	Attapulcus	GA	31715		
Nelda Aycock	298 Pine Cone Lane	Cairo	GA	39828	229.377.5956	
Luther Dollar	2809 Slash Avenue	Cairo	GA	31738	229.377.5857	<a href="http://www.LutherDollar@msn.com">www.LutherDollar@msn.com</a>
Rick McCaskill	P.O. Box 387	Cairo	GA	31728	229.378.8166	
Grady Farm Bureau	Box 547	Cairo	GA	31728	229.377.4142	
Grady Cty Health Dept.	1030 4 <sup>th</sup> St. SE	Cairo	GA	31728	229.377-2992	
Englehart Mining Company						
Decatur County Commissioners	P.O. Box 735	Bainbridge	GA	31718		
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Rufus Powell	P.O. Box 735	Bainbridge	GA	31718		
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**EDUCATION/OUTREACH ACTIVITIES**

<b>Entity</b>	<b>Description</b>	<b>Impacted Waterbodies*</b>	<b>Target Audience</b>	<b>Anticipated Dates (MM/YY)</b>
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

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**POLLUTANT SOURCES**

<b>Pollutant</b>	<b>Sources of Pollutants</b>	<b>Description of Contribution To Impairment</b>	<b>Impacted Waterbodies*</b>
Fecal Coliform	Agriculture Non point	Runoff (?) Failure to prevent runoff from farming & /or livestock operations from entering the creeks.	Little Attapulcus R
	Industry- Mining Operations	Runoff (?) Complaints of excess runoff from these operations have been received. Monitoring needs to be conducted to verify these complaints.	
FC	Failing Septic Tanks	Malfunctioning septic tanks causing surface water contamination with bacteria.	Lt. Attapulcus R

**MANAGEMENT MEASURES, RESPONSIBLE PARTIES, AND MEASURABLE MILESTONES**

<b>Regulation/Ordinance or Management Measure</b>	<b>Responsible Government, Organization or Entity</b>	<b>Description</b>	<b>Enacted/ Projected Date</b>	<b>Status</b>	<b>Regulatory/ Voluntary</b>
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)

<b>Pollutant(s) Affected</b>	<b>Sources of Pollutant(s)</b>	<b>Impacted Waterbodies*</b>	<b>Anticipated or Past Effectiveness</b>
F C, DO	nonpoint	Little Attapulcus	EPA identifies silviculture as the lowest contribution source of nonpoint pollution

<b>Measurable Milestones</b>	<b>Schedule</b>		<b>Comments</b>
	<b>Start</b>	<b>End</b>	
Decrease in concentration of FC	01/03	01/05	Education of land owners & Buffer funding requests & use of adaptive monitoring
Fecal Coliform within state parameters	01/03	01/12	BMPs properly implemented
DO > 3.29 mg/ L	01/03	01/12	For Swamp Creek

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<b>Regulation/Ordinance or Management Measure</b>	<b>Responsible Government, Organization or Entity</b>	<b>Description</b>	<b>Enacted/ Projected Date</b>	<b>Status</b>	<b>Regulatory/Voluntary</b>
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

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

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

<b>Regulation/Ordinance or Management Measure</b>	<b>Responsible Government, Organization or Entity</b>	<b>Description</b>	<b>Enacted/ Projected Date</b>	<b>Status</b>	<b>Regulatory/Voluntary</b>
Reduce Dumping off bridges	Grady County	Reduce trash and carcasses being dumped into the river tributaries- Education and enforcement programs	??	Proposed	Voluntary

<b>Pollutant(s) Affected</b>	<b>Sources of Pollutant(s)</b>	<b>Impacted Waterbodies*</b>	<b>Anticipated or Past Effectiveness</b>
FC	Oils, greases, carcasses	All streams	Not effective

<b>Measurable Milestones</b>	<b>Schedule</b>		<b>Comments</b>
	<b>Start</b>	<b>End</b>	
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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<b>Regulation/Ordinance or Management Measure</b>	<b>Responsible Government, Organization or Entity</b>	<b>Description</b>	<b>Enacted/ Projected Date</b>	<b>Status</b>	<b>Regulatory/ Voluntary</b>
Reduce runoff from bridges	Grady Cty	Implement measures to reduce runoff from un-Improved and improved county roads	01/05	In planning	Voluntary

<b>Pollutant(s) Affected</b>	<b>Sources of Pollutant(s)</b>	<b>Impacted Waterbodies*</b>	<b>Anticipated or Past Effectiveness</b>
FC	Runoff from roads	All streams	Unknown

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

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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
FC	To be determined	Entire basin	Anticipated- very effective

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

**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	Preliminary Proposal Due on 02/12/02	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

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**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 undertaken, 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. With this knowledge, local and state governments will be able to enact or enforce exiting statutes to correct the problems.

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**Swamp Creek**

NAME	LOCATION	MILES/AREA IMPACTED	CLASSIFICATION	PARTIALLY SUPPORTING/ NON SUPPORTING (PS/NS)
Swamp Creek	SR 262 to stateline	4	Fishing	NS
PRIMARY COUNTY	SECONDARY COUNTY	SECOND RDC	SOURCE (POINT/NON-POINT)	
Grady	Decatur		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 2.61 mg/l.	55% TOC (lb/yr) 59% TN (lb/yr) 65% TP (lb/yr)		12/2001
Fecal Coliform Bacteria	1,000 per 100 ml (geometric mean Nov- April) 200 per 100 ml (geometric mean May- Oct)	19%		6/2000

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**SIGNIFICANT STAKEHOLDERS**

<b>Name/Organization</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip</b>	<b>Phone</b>	<b>E-Mail</b>
Georgia EPD	4220 Inter. Pkwy Suite 101	Atlanta	GA	30354	404.675.1614	<a href="mailto:Ted_Mikalsen@mail.dnr.state.ga.us">Ted_Mikalsen@mail.dnr.state.ga.us</a>
Grady County	250 N. Broad St.	Cairo	GA	39828	229.377.1512	
Southwest Georgia RDC	30 West Broad St.	Camilla	GA	31730	229.522.3552	<a href="mailto:amacdonald@swgrdc.org">amacdonald@swgrdc.org</a>
Ga. Forestry Commission	3561 Highway 112	Camilla	GA	31730	229.522.3580	<a href="mailto:gfindley@gfc.state.ga.us">gfindley@gfc.state.ga.us</a>
USDA NRCS		Bainbridge	GA	31717		
City of Cairo	119 N. Broad St.	Cairo	GA	31728	229.377.1722	
City of Whigham	108 W. Broad St.	Whigham	GA	31797	229.762.4215	
The Nature Conservancy	18 North Main St.	Moultrie	GA	31768	229.985.8117	<a href="http://www.Georgiaconservancy.org">www.Georgiaconservancy.org</a>
Tall Timbers Research Station	13093 Henry Beadel Dr.	Tallahassee	FL	32312	850.893.4153	<a href="http://www.talltimbers.org">www.talltimbers.org</a>
International Paper	719 Southlands Rd.	Bainbridge	GA	31717	229.246.3642	<a href="mailto:Rebecca.winn@paper.com">Rebecca.winn@paper.com</a>
Friends of the Ochlockonee	1501 Millpond Rd.	Thomasville	GA	31792	229.226.1621	
POWR	No regular address	Whigham	Ga	31797	229.762.3290	<a href="http://www.POWR2002@aol.com">www.POWR2002@aol.com</a>
Tim Golden	321 Legislative Office Bldg	Atlanta	GA	30334		
Wallace Sholar	P.O. Box 868	Cairo	GA	39828	229.277.6200	
John Bullock	Bullock Rd.	Meigs	GA	31765	229.683.3420	
Attapulcus Research Center	P.O. Box 189	Attapulcus	GA	31715		
Heirs Land Corporation	112 Turner Williams Loop	Attapulcus	GA	31715		
Marie Mack	P.O. 367	Attapulcus	GA	31715		
Nelda Aycock	298 Pine Cone Lane	Cairo	GA	39828	229.377.5956	
Luther Dollar	2809 Slash Avenue	Cairo	GA	31738	229.377.5857	<a href="http://www.LutherDollar@msn.com">www.LutherDollar@msn.com</a>
Rick McCaskill	P.O. Box 387	Cairo	GA	31728	229.378.8166	
Grady Farm Bureau	Box 547	Cairo	GA	31728	229.377.4142	
Grady Cty Health Dept.	1030 4 <sup>th</sup> St. SE	Cairo	GA	31728	229.377-2992	
Englehart Mining Company						
Decatur County Commissioners	P.O. Box 735	Bainbridge	GA	31718		
Southwest GA Regional Library	301 Monroe St.	Bainbridge	GA	31718		
City of Attapulcus	Attapulcus		GA			
Decatur County Health Dept.						
Rufus Powell	P.O. Box 735	Bainbridge	GA	31718		
Lamar Crosby	1069 Tired Creek Rd.	Whigham	GA	39897		
Spring Creek Water Task Force	P.O. Box 1042	Bainbridge	GA	31718		

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**EDUCATION/OUTREACH ACTIVITIES**

<b>Entity</b>	<b>Description</b>	<b>Impacted Waterbodies*</b>	<b>Target Audience</b>	<b>Anticipated Dates (MM/YY)</b>
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**

<b>Pollutant</b>	<b>Sources of Pollutants</b>	<b>Description of Contribution To Impairment</b>	<b>Impacted Waterbodies*</b>
Fecal Coliform	Agriculture Non point	Runoff (?) Failure to prevent runoff from farming & /or livestock operations from entering the creeks.	Little Attapulcus R
	Industry- Mining Operations	Runoff (?) Complaints of excess runoff from these operations have been received. Monitoring needs to be conducted to verify these complaints.	
FC	Failing Septic Tanks	Malfunctioning septic tanks causing surface water contamination with bacteria.	Lt. Attapulcus R
Dissolved Oxygen & Fecal Coliform	Agriculture Non point	Fecal Coliform in excess of State Standards- Does not support Fishing	Swamp Creek
		Dissolved Oxygen does not meet state standards-Does not support Fishing	
		Runoff (?) Complaints of excess runoff from Chicken House manure being applied in the watershed. (Adaptive monitoring needs to be conducted to isolate the problem areas.)	
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**

<b>Regulation/Ordinance or Management Measure</b>	<b>Responsible Government, Organization or Entity</b>	<b>Description</b>	<b>Enacted/ Projected Date</b>	<b>Status</b>	<b>Regulatory/ Voluntary</b>
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)

<b>Pollutant(s) Affected</b>	<b>Sources of Pollutant(s)</b>	<b>Impacted Waterbodies*</b>	<b>Anticipated or Past Effectiveness</b>
F C, DO	nonpoint	Little Attapulcus	EPA identifies silviculture as the lowest contribution source of nonpoint pollution

<b>Measurable Milestones</b>	<b>Schedule</b>		<b>Comments</b>
	<b>Start</b>	<b>End</b>	
Decrease in concentration of FC	01/03	01/05	Education of land owners & Buffer funding requests & use of adaptive monitoring
Fecal Coliform within state parameters	01/03	01/12	BMPs properly implemented
DO > 3.29 mg/ L	01/03	01/12	For Swamp Creek

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<b>Regulation/Ordinance or Management Measure</b>	<b>Responsible Government, Organization or Entity</b>	<b>Description</b>	<b>Enacted/ Projected Date</b>	<b>Status</b>	<b>Regulatory/Voluntary</b>
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

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

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

<b>Regulation/Ordinance or Management Measure</b>	<b>Responsible Government, Organization or Entity</b>	<b>Description</b>	<b>Enacted/ Projected Date</b>	<b>Status</b>	<b>Regulatory/Voluntary</b>
Reduce Dumping off bridges	Grady County	Reduce trash and carcasses being dumped into the river tributaries- Education and enforcement programs	??	Proposed	Voluntary

<b>Pollutant(s) Affected</b>	<b>Sources of Pollutant(s)</b>	<b>Impacted Waterbodies*</b>	<b>Anticipated or Past Effectiveness</b>
FC	Oils, greases, carcasses	All streams	Not effective

<b>Measurable Milestones</b>	<b>Schedule</b>		<b>Comments</b>
	<b>Start</b>	<b>End</b>	
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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<b>Regulation/Ordinance or Management Measure</b>	<b>Responsible Government, Organization or Entity</b>	<b>Description</b>	<b>Enacted/ Projected Date</b>	<b>Status</b>	<b>Regulatory/ Voluntary</b>
Reduce runoff from bridges	Grady Cty	Implement measures to reduce runoff from un-Improved and improved county roads	01/05	In planning	Voluntary

<b>Pollutant(s) Affected</b>	<b>Sources of Pollutant(s)</b>	<b>Impacted Waterbodies*</b>	<b>Anticipated or Past Effectiveness</b>
FC	Runoff from roads	All streams	Unknown

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

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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
FC	To be determined	Entire basin	Anticipated- very effective

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

**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	Preliminary Proposal Due on 02/12/02	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

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**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 sited	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, ets	Identify and locate sources of pollutants in each identified stream	01/03	??	Proposed
Individual Industries	Industries	Various	DO, FC, Turbidity Nutrients	Monitor the affected steam above and below the industry for water quality	01/03	??	Voluntary program

COMMENTS: Before definitive actions can be undertaken, 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. With this knowledge, local and state governments will be able to enact or enforce exiting statutes to correct the problems.

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.**