

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

Local Watershed Governments

Thomas County

City of Boston

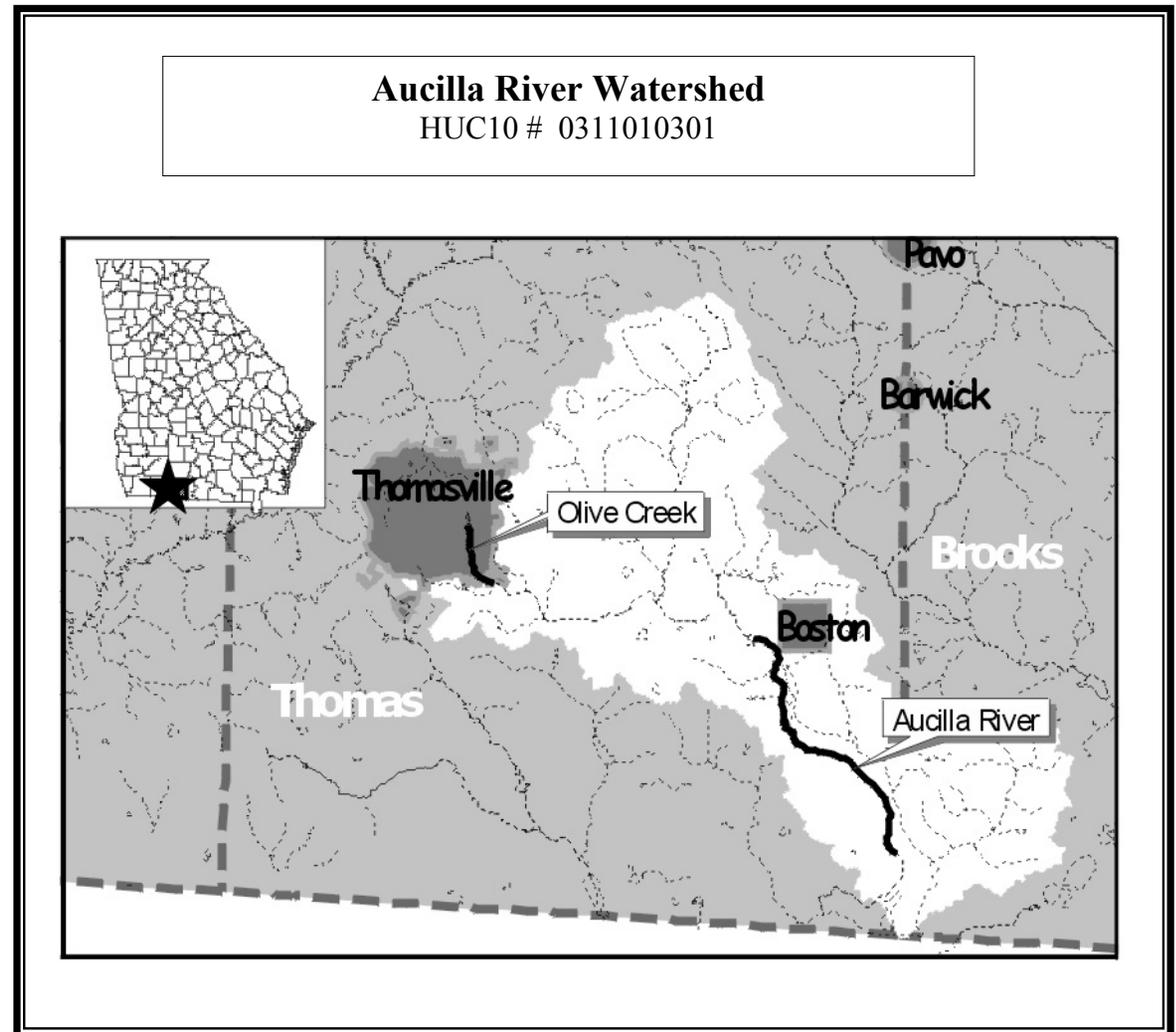
City of Thomasville

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. Once restored, appropriate management practices and activities will be continued to maintain the water bodies.

**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. Aucilla River    | Masse Branch to Brooks County line near Boston   | Dissolved Oxygen, Fecal Coliform Bacteria |
| 2. Olive Creek      | Headwaters to upstream U.S. Hwy. 19, Thomasville | Dissolved Oxygen                          |

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

| 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 checked="" 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 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 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 checked="" type="checkbox"/> Residential                      | <input type="checkbox"/> Other (Please List) |                                                                 |                                                                  |
| <input type="checkbox"/> Other (Please List)               | <input checked="" type="checkbox"/> Other (Please List)<br>Non point | 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    | 30354 | 404.675.1614 | <a href="mailto:Ted_Mikalsen@mail.dnr.state.ga.us">Ted_Mikalsen@mail.dnr.state.ga.us</a> |
| Thomas County                     | 225 N. Broad St.           | Thomasville | GA    | 31792 | 229.225.4100 |                                                                                          |
| City of Thomasville               | 111 Victoria Place         | Thomasville | GA    | 31792 | 229.227.7001 | <a href="http://www.rose.net">www.rose.net</a>                                           |
| 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:Rebexxa.winn@paper.com">Rebexxa.winn@paper.com</a>                       |
| 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 | <a href="mailto:gfindley@gfc.state.ga.us">gfindley@gfc.state.ga.us</a>                   |
| Southwest Georgia FDC             | 30 West Broad St.          | Camilla     | GA    | 31730 | 229.522.3552 | <a href="mailto:amacdonald@swgrdc.org">amacdonald@swgrdc.org</a>                         |
| USDA NRCS                         | 404 N. Broad St. Room 203  | Thomasville | GA    | 31792 | 229.226.3462 |                                                                                          |
| John Bullock                      | Bullock Rd.                | Ochlocknee  | GA    | 31765 | 229.683.3420 |                                                                                          |
| Mary Jo Beverly                   | 426 S. Hansell St.         | Thomasville | GA    | 31792 | 229.228.0184 |                                                                                          |
| Prince Jinright                   | 517 Wildwood Dr.           | Thomasville | GA    | 31792 | 229.227.0726 | <a href="mailto:rjinright@wlbvtv.net">rjinright@wlbvtv.net</a>                           |
| Fred Cooper                       | 2820 Bullock Rd.           | Ochlocknee  | GA    | 31773 | 229.683.3738 |                                                                                          |
| Wallace Sholar                    | P.O. Box 868               | Cairo       | GA    | 39828 | 229.227.6200 |                                                                                          |
| Thomas County Chamber of Commerce | P.O. Box 560               | Thomasville | GA    | 31799 | 229.226.9600 |                                                                                          |
| Thomasville School Board          | 915 E. Jackson St.         | Thomasville | GA    | 31792 | 229.225.2600 |                                                                                          |
| Thomas Cty School Board           | US Hwy 319                 | Thomasville | GA    | 31792 | 229.225.4380 |                                                                                          |
| Hamilton Faulk                    | 225 N. Broad St.           | Thomasville | GA    | 31792 | 229.225.4100 | <a href="mailto:tbcenv@rose.net">tbcenv@rose.net</a>                                     |
| Thomas County Library             | 201 N. Madison St.         | Thomasville | GA    | 31792 | 229.225.5252 |                                                                                          |
| Mark Brannan                      | 622 E. Clay St.            | Thomasville | GA    | 31792 | 229.226.9869 | <a href="mailto:mbrannan@rose.net">mbrannan@rose.net</a>                                 |
| Susan Bannister                   | P.O. Box 1397              | Thomasville | GA    | 31799 | 229.227.7000 | <a href="mailto:SusanB@Thomasville.org">SusanB@Thomasville.org</a>                       |
| Harold Ragan                      | 1296 Crine Blvd. NW        | Cairo       | GA    | 31728 | 229.377.2593 |                                                                                          |
| Don Clark                         | P.O. Box 49                | Thomasville | GA    | 31799 | 229.228.1584 | <a href="mailto:donclark@rose.net">donclark@rose.net</a>                                 |
| David Herring                     | P.O. Box 172               | Thomasville | GA    | 31758 | 229.226.7577 |                                                                                          |
| City of Boston                    | P.O. Box 370               | Boston      | GA    | 31626 | 229.498.6743 |                                                                                          |
| Boston Carnegie Library           | 250 S. Main St.            | Boston      | GA    | 31626 | 229.498.5101 |                                                                                          |
| Dan Thomas                        | 14626 Eason Crossing Rd.   | Boston      | GA    | 31626 | Unlisted     |                                                                                          |

**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) |
|-------------------|------------------------------------------------|---------------------|--------------------------|----------------------------------------------|
| Aucilla River     | Masse Branch to Brooks County line near Boston | 3                   | 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)<br>Natural DO lower than state standard.<br>Calculated target DO 2.72 mg/l | 38% (TOC lb/yr)<br>38% (TN lb/yr)<br>39% (TP lb/yr) |         | 12/2001               |
| Fecal Coliform Bacteria | 1,000 per 100 ml (geometric mean Nov-April)<br>200 per 100 ml (geometric mean May-Oct)                            | 58%                                                 |         | 7/2001                |

| Waterbody Name #2 | Location                                         | Miles/Area Impacted | Use Classification       | Partially Supporting/ Not Supporting (PS/NS) |
|-------------------|--------------------------------------------------|---------------------|--------------------------|----------------------------------------------|
| Olive Creek       | Headwaters to upstream U.S. Hwy. 19, Thomasville | 3                   | Fishing                  | PS                                           |
| 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) | 35% (TOC lb/yr)<br>35% (TN lb/yr)<br>35% (TP lb/yr) |         | 12/2001               |
|                  |                                        |                                                     |         | 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 )

| <b>Pollutant</b> | <b>Sources of Pollutants</b>        | <b>Description of Contribution To Impairment</b>                                                                             | <b>Impacted Waterbodies*</b> |
|------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| DO               | Nonpoint- urban runoff              | Failure to prevent urban runoff from entering the streams                                                                    | Olive Creek                  |
| Low DO           | Natural                             | Stream below critical conditions: High temperatures and low flow contribute to low levels of dissolved oxygen in the stream. | Olive Creek                  |
| DO               | Nonpoint                            | Failure to prevent runoff from farming &/or livestock operations from entering the creeks.                                   | Aucilla Rv                   |
| DO               | Municipal Sewage Treatment (?)      | Monitoring needs to be conducted to document current Mun. Sewage Treat. Effects.                                             | Aucilla Rv                   |
| Low DO           | Natural                             | Stream below critical conditions: High temperatures and low flow contribute to low levels of dissolved oxygen in the stream. | Aucilla Rv                   |
| FC               | Nonpoint                            | Failure to prevent runoff from entering the creeks.                                                                          |                              |
| FC               | Failing Septic Tanks or Sewer Lines | Malfunctioning septic tanks causing surface water contamination with bacteria.                                               |                              |

## 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<br>GA EPD if enforcement | Protect streamside management zones and maintain canopy during harvesting | Current                 | In-progress | Voluntary<br>(Violations of "Georgia Water Quality Act" may be pursued) |

| Pollutant(s) Affected | Sources of Pollutant(s) | Impacted Waterbodies* | Anticipated or Past Effectiveness                                                   |
|-----------------------|-------------------------|-----------------------|-------------------------------------------------------------------------------------|
| FC, DO                | Non point               | Aucilla R & Olive Ck  | EPA identifies silviculture as the lowest contribution source of nonpoint pollution |

| Measurable Milestones                                                 | Schedule |       | Comments                                             |
|-----------------------------------------------------------------------|----------|-------|------------------------------------------------------|
|                                                                       | Start    | End   |                                                      |
| Decrease in concentration of FC                                       | 01/03    | 01/05 | Education of land owners & Buffer funding requests & |
| Increase in concentration of DO                                       |          |       | Adaptive monitoring                                  |
| Aucilla R. FC < standard ( 200 gm/ 100 mL) & DO > target of 2.72 mg/L | 01/05    | 01/12 | Adaptive monitoring                                  |
| Olive Ck DO > standard (4 mg/L)                                       | 01/05    | 01/12 | Adaptive monitoring                                  |

| Management Measure                                                                                                                                               | Responsible Government, Organization or Entity | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |

| 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                                       | 01/03    | 01/05 | Education of land owners & Buffer funding requests & Adaptive monitoring |
| Increase in concentration of DO                                       |          |       |                                                                          |
| Aucilla R. FC < standard ( 200 gm/ 100 mL) & DO > target of 2.72 mg/L | 01/05    | 01/12 | Adaptive monitoring                                                      |
| Olive Ck DO > standard (4 mg/L)                                       | 01/05    | 01/12 | Adaptive monitoring                                                      |

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

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

| Measurable Milestones                 | Schedule |       | Comments                                                |
|---------------------------------------|----------|-------|---------------------------------------------------------|
|                                       | Start    | End   |                                                         |
| Reduction 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                                  |

|                                              |
|----------------------------------------------|
| Watershed Aucilla River<br>HUC 10 0311010301 |
|----------------------------------------------|

| <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                        | Thomas County                                         | Implement measures to reduce runoff from unimproved 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<br>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 |          |
| Regulation are enforced | ASAP     |     |          |

|                                              |
|----------------------------------------------|
| Watershed Aucilla River<br>HUC 10 0311010301 |
|----------------------------------------------|

| Regulation/Ordinance or Management Measure  | Responsible Government, Organization or Entity | Description                                                                                                                                                                                                                                                                                                                                                                                     | Enacted/<br>Projected Date | Status      | Regulatory/<br>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, DO                | To be determined        | Entire basin          | Anticipated- very effective       |

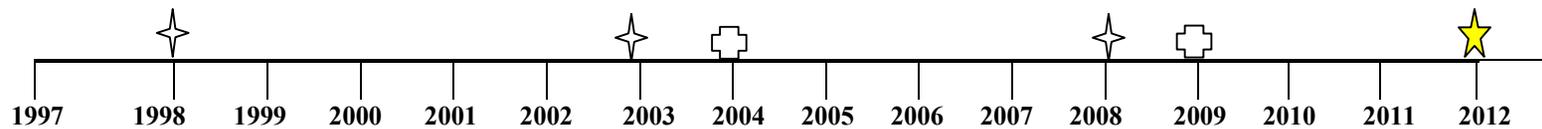
| Measurable Milestones                                           | Schedule |       | Comments                                                          |
|-----------------------------------------------------------------|----------|-------|-------------------------------------------------------------------|
|                                                                 | 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 concentration of FC<br>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                                     | 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<br>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<br>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, 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 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) Decreasing trend in the concentration of FC, and Increasing trend in concentration of DO over a period of one year.

*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) FC in Aucilla River is within state standards (< 200 gm/ 100 mL) & DO exceeds the target of 2.72 mg/L  
DO in Olive Creek exceeds the state standard (> 4 mg/L)

- Regulatory controls or activities installed (ordinances, laws) Antidumping ordinances enacted by all counties-(similar to those in Thomas County), BMPs for forestry, agriculture, and land disturbing activities integrated into all county 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- increased DO downstream from cities

## 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 Aucilla River  
HUC 10 0311010301

|                        |                                   |     |    |      |       |
|------------------------|-----------------------------------|-----|----|------|-------|
| Prepared By:           | Dan Sanford                       |     |    |      |       |
| Agency:                | Thomas University                 |     |    |      |       |
| Address:               | 1501 Millpond Rd.                 |     |    |      |       |
| City:                  | Thomasville                       | ST: | GA | ZIP: | 31792 |
| E-mail:                |                                   |     |    |      |       |
| Date Submitted to EPD: | 12/19/02 as per EPD modifications |     |    |      |       |

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

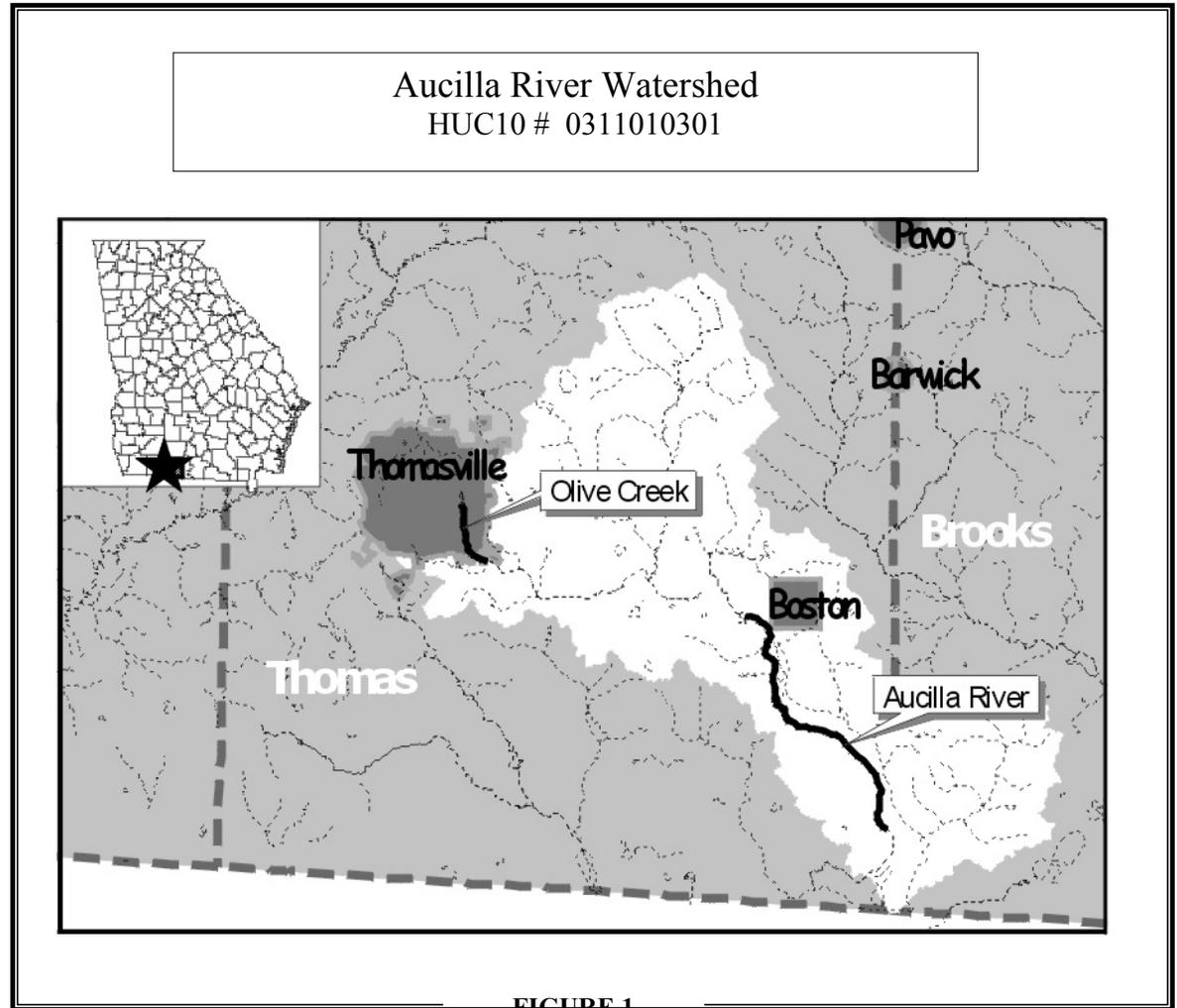
**STATE OF GEORGIA  
TMDL IMPLEMENTATION PLAN  
OCHLOCKONEE RIVER BASIN**

**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. Once restored, appropriate management practices and activities will be continued to maintain the water bodies.

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. Aucilla River    | Masse Branch to Brooks County line near Boston   | Dissolved Oxygen, Fecal Coliform Bacteria |
| 2. Olive Creek      | Headwaters to upstream U.S. Hwy. 19, Thomasville | Dissolved Oxygen                          |

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

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**Aucilla River**

| <b>NAME</b>           | <b>LOCATION</b>                                | <b>MILES/AREA IMPACTED</b> | <b>CLASSIFICATION</b>           | <b>PARTIALLY SUPPORTING/<br/>NON SUPPORTING (PS/NS)</b> |
|-----------------------|------------------------------------------------|----------------------------|---------------------------------|---------------------------------------------------------|
| Aucilla River         | Masse Branch to Brooks County line near Boston | 3                          | Fishing                         | NS                                                      |
| <b>PRIMARY COUNTY</b> | <b>SECONDARY COUNTY</b>                        | <b>SECOND RDC</b>          | <b>SOURCE (POINT/NON-POINT)</b> |                                                         |
| Thomas                |                                                |                            | Nonpoint                        |                                                         |

| <b>POLLUTANTS</b>       | <b>WATER QUALITY STANDARDS</b>                                                                                    | <b>REQUIRED REDUCTION</b>                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Dissolved Oxygen        | 5mg/l (daily average) 4 mg/l (minimum)<br>Natural DO lower than state standard.<br>Calculated target DO 2.72 mg/l | 38% (TOC lb/yr)<br>38% (TN lb/yr)<br>39% (TP lb/yr) |
| Fecal Coliform Bacteria | 1,000 per 100 ml (geometric mean Nov-April)<br>200 per 100 ml (geometric mean May-Oct)                            |                                                     |

| <b>TMDL ID #</b> | <b>DATE TMDL ESTABLISHED</b> |
|------------------|------------------------------|
|                  | 12/2001                      |
|                  | 7/2001                       |

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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> |
| Thomas County                     | 225 N. Broad St.           | Thomasville | GA           | 31792      | 229.225.4100 |                                                                                          |
| City of Thomasville               | 111 Victoria Place         | Thomasville | GA           | 31792      | 229.227.7001 | <a href="http://www.rose.net">www.rose.net</a>                                           |
| 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:Rebexxa.winn@paper.com">Rebexxa.winn@paper.com</a>                       |
| 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 | <a href="mailto:gfindley@gfc.state.ga.us">gfindley@gfc.state.ga.us</a>                   |
| Southwest Georgia FDC             | 30 West Broad St.          | Camilla     | GA           | 31730      | 229.522.3552 | <a href="mailto:amacdonald@swgrdc.org">amacdonald@swgrdc.org</a>                         |
| USDA NRCS                         | 404 N. Broad St. Room 203  | Thomasville | GA           | 31792      | 229.226.3462 |                                                                                          |
| John Bullock                      | Bullock Rd.                | Ochlocknee  | GA           | 31765      | 229.683.3420 |                                                                                          |
| Mary Jo Beverly                   | 426 S. Hansell St.         | Thomasville | GA           | 31792      | 229.228.0184 |                                                                                          |
| Prince Jinright                   | 517 Wildwood Dr.           | Thomasville | GA           | 31792      | 229.227.0726 | <a href="mailto:rjnright@wlbtv.net">rjnright@wlbtv.net</a>                               |
| Fred Cooper                       | 2820 Bullock Rd.           | Ochlocknee  | GA           | 31773      | 229.683.3738 |                                                                                          |
| Wallace Sholar                    | P.O. Box 868               | Cairo       | GA           | 39828      | 229.227.6200 |                                                                                          |
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| Hamilton Faulk                    | 225 N. Broad St.           | Thomasville | GA           | 31792      | 229.225.4100 | <a href="mailto:tcbcenv@rose.net">tcbcenv@rose.net</a>                                   |
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| Mark Brannan                      | 622 E. Clay St.            | Thomasville | GA           | 31792      | 229.226.9869 | <a href="mailto:mbrannan@rose.net">mbrannan@rose.net</a>                                 |
| Susan Bannister                   | P.O. Box 1397              | Thomasville | GA           | 31799      | 229.227.7000 | <a href="mailto:SusanB@Thomasville.org">SusanB@Thomasville.org</a>                       |
| Harold Ragan                      | 1296 Crine Blvd. NW        | Cairo       | GA           | 31728      | 229.377.2593 |                                                                                          |
| Don Clark                         | P.O. Box 49                | Thomasville | GA           | 31799      | 229.228.1584 | <a href="mailto:donclark@rose.net">donclark@rose.net</a>                                 |
| David Herring                     | P.O. Box 172               | Thomasville | GA           | 31758      | 229.226.7577 |                                                                                          |
| City of Boston                    | P.O. Box 370               | Boston      | GA           | 31626      | 229.498.6743 |                                                                                          |
| Boston Carnegie Library           | 250 S. Main St.            | Boston      | GA           | 31626      | 229.498.5101 |                                                                                          |
| Dan Thomas                        | 14626 Eason Crossing Rd.   | Boston      | GA           | 31626      | Unlisted     |                                                                                          |

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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 &<br>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> |
|------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| DO               | Nonpoint                            | Failure to prevent runoff from farming &/or livestock operations from entering the creeks.                                   | Aucilla Rv                   |
| DO               | Municipal Sewage Treatment (?)      | Monitoring needs to be conducted to document current Mun. Sewage Treat. Effects.                                             | Aucilla Rv                   |
| Low DO           | Natural                             | Stream below critical conditions: High temperatures and low flow contribute to low levels of dissolved oxygen in the stream. | Aucilla Rv                   |
| FC               | Nonpoint                            | Failure to prevent runoff from entering the creeks.                                                                          |                              |
| FC               | Failing Septic Tanks or Sewer Lines | Malfunctioning septic tanks causing surface water contamination with bacteria.                                               |                              |

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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<br>GA EPD if enforcement       | Protect streamside management zones and maintain canopy during harvesting | Current                        | In-progress   | Voluntary<br>(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>                                            |
|------------------------------|--------------------------------|------------------------------|-------------------------------------------------------------------------------------|
| DO                           | Non point                      | Aucilla R & Olive Creek      | 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 & |
| Increase in concentration of DO                                       |                 |            | Adaptive monitoring                                  |
| Aucilla R. FC < standard ( 200 gm/ 100 mL) & DO > target of 2.72 mg/L | 01/05           | 01/12      |                                                      |

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| Agency 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                                       | 01/03    | 01/05 | Education of land owners & Buffer funding requests & Adaptive monitoring |
| Increase in concentration of DO                                       |          |       |                                                                          |
| Aucilla R. FC < standard ( 200 gm/ 100 mL) & DO > target of 2.72 mg/L | 01/05    | 01/12 |                                                                          |

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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                 | Thomas County                                  | Reduce trash and carcasses being dumped into the river tributaries-Education and Enforcement programs | Thomas 10/02<br>Grady & Mitchell Cty ?? | In progress<br>& proposed | Regulatory            |

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

| Measurable Milestones                 | Schedule |       | Comments                                                |
|---------------------------------------|----------|-------|---------------------------------------------------------|
|                                       | Start    | End   |                                                         |
| Reduction 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                 | Thomas County                                  | 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 |
|-----------------------|-------------------------|-----------------------|-----------------------------------|
| FC, DO                | Runoff from roads       | All Streams           | Unknown                           |

| Measurable Milestones                                             | Schedule |       | Comments                                                      |
|-------------------------------------------------------------------|----------|-------|---------------------------------------------------------------|
|                                                                   | Start    | End   |                                                               |
| Experimental designs started<br>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/<br>Projected Date | Status   | Regulatory/<br>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 |          |
| Regulation are enforced | ASAP     |     |          |

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| Regulation/Ordinance or Management Measure   | Responsible Government, Organization or Entity | Description                                                                                                                                                                                                                                                                                                                                                                                     | Enacted/<br>Projected Date | Status      | Regulatory/<br>Voluntary |
|----------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------|--------------------------|
| Adaptive monitoring and watershed assessment | 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, DO                | 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 concentration of FC<br>Increase in concentration of DO | 01/04    | 01/12 |                                                                   |

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**POTENTIAL FUNDING SOURCES**

| <b>Funding Source</b>                 | <b>Responsible Authority</b>                          | <b>Status</b>                           | <b>Anticipated Funding Amount</b> | <b>Impacted Waterbodies*</b> |
|---------------------------------------|-------------------------------------------------------|-----------------------------------------|-----------------------------------|------------------------------|
| 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<br>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<br>To develop educational Materials | In Planning                             | To Be Determined                  | Entire Basin                 |

**MONITORING PLAN**

| <b>Name Of Regulation / Ordinance Or Management Measure</b> | <b>Organization</b> | <b>Impacted Waterbodies*</b> | <b>Pollutants</b>               | <b>Purpose/Description</b>                                                 | <b>Time Frame</b> |            | <b>Status (Previous, Current, Proposed)</b> |
|-------------------------------------------------------------|---------------------|------------------------------|---------------------------------|----------------------------------------------------------------------------|-------------------|------------|---------------------------------------------|
|                                                             |                     |                              |                                 |                                                                            | <b>Start</b>      | <b>End</b> |                                             |
| 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<br>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, 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 stream above and below the industry for water quality | 01/03             | ??         | Voluntary program                           |

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**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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**Olive Creek**

| <b>NAME</b>           | <b>LOCATION</b>                                     | <b>MILES/AREA IMPACTED</b> | <b>CLASSIFICATION</b>           | <b>PARTIALLY SUPPORTING/<br/>NON SUPPORTING (PS/NS)</b> |
|-----------------------|-----------------------------------------------------|----------------------------|---------------------------------|---------------------------------------------------------|
| Olive Creek           | Headwaters to upstream U.S. Hwy. 19,<br>Thomasville | 3                          | Fishing                         | PS                                                      |
| <b>PRIMARY COUNTY</b> | <b>SECONDARY COUNTY</b>                             | <b>SECOND RDC</b>          | <b>SOURCE (POINT/NON-POINT)</b> |                                                         |
| Thomas                |                                                     |                            | Nonpoint                        |                                                         |

| <b>POLLUTANTS</b> | <b>WATER QUALITY STANDARDS</b>         | <b>REQUIRED REDUCTION</b>                           | <b>TMDL ID #</b> | <b>DATE TMDL ESTABLISHED</b> |
|-------------------|----------------------------------------|-----------------------------------------------------|------------------|------------------------------|
| Dissolved Oxygen  | 5mg/l (daily average) 4 mg/l (minimum) | 35% (TOC lb/yr)<br>35% (TN lb/yr)<br>35% (TP lb/yr) |                  | 12/2001                      |

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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> |
| Thomas County                     | 225 N. Broad St.           | Thomasville | GA           | 31792      | 229.225.4100 |                                                                                          |
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| 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>                   |
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| USDA NRCS                         | 404 N. Broad St. Room 203  | Thomasville | GA           | 31792      | 229.226.3462 |                                                                                          |
| John Bullock                      | Bullock Rd.                | Ochlocknee  | GA           | 31765      | 229.683.3420 |                                                                                          |
| Mary Jo Beverly                   | 426 S. Hansell St.         | Thomasville | GA           | 31792      | 229.228.0184 |                                                                                          |
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| Fred Cooper                       | 2820 Bullock Rd.           | Ochlocknee  | GA           | 31773      | 229.683.3738 |                                                                                          |
| Wallace Sholar                    | P.O. Box 868               | Cairo       | GA           | 39828      | 229.227.6200 |                                                                                          |
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| Thomas Cty School Board           | US Hwy 319                 | Thomasville | GA           | 31792      | 229.225.4380 |                                                                                          |
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| City of Boston                    | P.O. Box 370               | Boston      | GA           | 31626      | 229.498.6743 |                                                                                          |
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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 &<br>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> |
|------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| DO               | Nonpoint- urban runoff       | Failure to prevent urban runoff from entering the streams                                                                    | Olive Creek                  |
| Low DO           | Natural                      | Stream below critical conditions: High temperatures and low flow contribute to low levels of dissolved oxygen in the stream. | Olive Creek                  |

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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<br>GA EPD if enforcement       | Protect streamside management zones and maintain canopy during harvesting | Current                        | In-progress   | Voluntary<br>(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>                                            |
|------------------------------|--------------------------------|------------------------------|-------------------------------------------------------------------------------------|
| DO                           | Non point                      | Olive Ck                     | 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> |                                                                          |
| Increase in concentration of DO | 01/03           | 01/05      | Education of land owners & Buffer funding requests & Adaptive monitoring |
| Olive Ck DO > standard (4 mg/L) | 01/05           | 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               | Aucilla R & Olive Ck  |                                   |

| Measurable Milestones           | Schedule |       | Comments                                             |
|---------------------------------|----------|-------|------------------------------------------------------|
|                                 | Start    | End   |                                                      |
| Increase in concentration of DO | 01/03    | 01/05 | Education of land owners & Buffer funding requests & |
| Olive Ck DO > standard (4 mg/L) | 01/05    | 01/12 | Adaptive monitoring                                  |

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

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

| Measurable Milestones                 | Schedule |       | Comments                                                |
|---------------------------------------|----------|-------|---------------------------------------------------------|
|                                       | Start    | End   |                                                         |
| Reduction 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                        | Thomas County                                         | Implement measures to reduce runoff from unimproved 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> |
|------------------------------|--------------------------------|------------------------------|------------------------------------------|
| DO                           | 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<br>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/<br>Projected Date | Status   | Regulatory/<br>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 |          |
| Regulation are enforced | ASAP     |     |          |

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| Regulation/Ordinance or Management Measure   | Responsible Government, Organization or Entity | Description                                                                                                                                                                                                                                                                                                                                                                                     | Enacted/<br>Projected Date | Status      | Regulatory/<br>Voluntary |
|----------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------|--------------------------|
| Adaptive monitoring and watershed assessment | 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                    | 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 concentration of FC<br>Increase in concentration of DO | 01/04    | 01/12 |                                                                   |

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**POTENTIAL FUNDING SOURCES**

| <b>Funding Source</b>                 | <b>Responsible Authority</b>                          | <b>Status</b>                           | <b>Anticipated Funding Amount</b> | <b>Impacted Waterbodies*</b> |
|---------------------------------------|-------------------------------------------------------|-----------------------------------------|-----------------------------------|------------------------------|
| 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<br>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<br>To develop educational Materials | In Planning                             | To Be Determined                  | Entire Basin                 |

**MONITORING PLAN**

| <b>Name Of Regulation / Ordinance Or Management Measure</b> | <b>Organization</b> | <b>Impacted Waterbodies*</b> | <b>Pollutants</b>                        | <b>Purpose/Description</b>                                                 | <b>Time Frame</b> |            | <b>Status (Previous, Current, Proposed)</b> |
|-------------------------------------------------------------|---------------------|------------------------------|------------------------------------------|----------------------------------------------------------------------------|-------------------|------------|---------------------------------------------|
|                                                             |                     |                              |                                          |                                                                            | <b>Start</b>      | <b>End</b> |                                             |
| 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<br>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,<br>Turbidity<br>Nutrients,<br>etc | Identify and locate sources of pollutants in each identified stream        | 01/03             | ??         | Proposed                                    |
| Individual Industries                                       | Industries          | Various                      | DO, FC,<br>Turbidity<br>Nutrients        | Monitor the affected stream above and below the industry for water quality | 01/03             | ??         | Voluntary program                           |

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**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.**