Mississippi Watershed Implementation Plan Guidance
Compatible with Section 319 Grant Requirements

September 9, 2004

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WATERSHED IMPLEMENTATON PLAN FORMAT GUIDANCE

This document presents a format and guidance for developing an implementation plan for watershed management activities that addresses the requirements of planning for projects funded with Section 319 funds. Under the plan sections, questions are provided to guide the user in determining what information needs to be included. A number of examples of tables that could be used in the plan are included at the end of the example plan format. In addition, a listing of information sources for the plan is included at the end of this document.

EXECUTIVE SUMMARY

A summary table of the information below located at the beginning of the Basin Group I plans served the function of an executive summary (see example Table 1, pg 13). The idea is to provide a clear, concise summary of what is planned and what benefits are expected.

• What are the goals of the watershed implementation plan?
• Who will be implementing activities in the watershed aimed at achieving these goals?
• What activities will be undertaken to achieve the goals?
• When will these activities take place?
• Where in the watershed will these activities take place?
• What benefits are expected from these activities?
• Who can be contacted for information about or assistance with these activities?

1.0 MISSION STATEMENT

What is the purpose of the work of the Watershed Implementation Team in the watershed? Most agencies and watershed groups have mission statements. They can be incorporated into an overall mission for the Team's work in the watershed.

2.0 WATERSHED BACKGROUND

2.1 Watershed Description

Some suggestions for information to include are listed below. Maps are useful for conveying much of this information, include at least a watershed map and a land use map. Maps may already exist for the watershed that could be used here. Tables may also be useful for presenting information such as land use and soil types and their characteristics.

• How big is the watershed?
• Where is the watershed located (site map)?
• How many people live in the watershed?
• Where do people live in the watershed?

• What cities, towns, or communities are located in the watershed?
• What communities not located in the watershed affect the watershed?
• What are economic conditions like in the watershed?
• What is the history of the watershed and its people?
• What are the soils and geology of the watershed like?
• What ecoregion(s) occurs in the watershed?
• What are the land uses/land covers that occur in the watershed?
• Have there been, or are there occurring, significant changes in land use in the watershed over time?
• What is the extent of wetlands in the watershed, where are they located, and how are they managed?
• What water bodies are located in the watershed?

2.2 Stakeholder Interests

• What are stakeholders interests in the watershed?
• What do stakeholders want to preserve or improve in the watershed?
• Are stakeholders interested in watershed recreational opportunities?
• Are stakeholders interested in water supplies?
• Are stakeholders interested in aesthetics?
• Are stakeholders interested in wildlife resources?
• Are stakeholders interested in fishing? Hunting?
• Are stakeholders interested in cultural and/or historical resources?
• What is important to the watershed stakeholders?

2.3 Stakeholder Concerns

A summary listing the issues that have been identified in the watershed. Include the following information about current issues in a table (see example Table 2, pg 14). Discuss in the text those concerns that have been shown to not be a problem (i.e. through more in-depth investigation and/or scientific study), or are no longer a problem (i.e. as a result of previous restoration efforts). These issues should be excluded from the summary table. Note in the text that additional information about causes is included in an appendix (Stressor summary table).

• What is the issue, concern, or problem?
• What are the suspected or known causes of the problem?

• Where in the watershed does this problem occur?
• What is the extent of this problem (e.g. How many miles of stream or acres of land are affected?, How many affected sites are there?)?

2.4 Water Quantity

2.4.1 Condition

• What is the current condition of surface water quantity?
• What is the current condition of ground water quantity?
• What are the factors affecting surface and/or ground water quantity?
• What is the history of surface and/or ground water use?
• What studies of surface and/or ground water quantity have been conducted in the watershed?
• What previous water quantity concerns have been rectified?
• How were these previous water quantity concerns rectified (i.e. shown to have no basis as the result of additional study, or rectified as a result of some action taken)?

2.4.2 Conservation

If water quantity is not an issue in the watershed, there may not be water conservation programs active in the watershed. In that case exclude the subsections and include available information about water quantity in Section 2.3.

• What water conservation programs or activities occur in the watershed?
• What is the target audience for these programs/activities?
• What has been accomplished by these programs or through these activities to date?

2.5 Wildlife Resources

Note that if any of these listings get very long it is better to include them in an appendix. Summary tables (see examples Tables 3 and 4, pgs 14-15) and maps can be very useful here.

• What are the important recreational species in the watershed?
• Where do important recreational species occur in the watershed?
• Where do habitats for important recreational species occur in the watershed?
• Are there threatened and endangered species in the watershed?
• Where do threatened and endangered species occur in the watershed?
• Where do threatened and endangered species habitats occur in the watershed?

• What other species of special concern occur in the watershed?
• Where do species of special concern occur in the watershed?
• Where do habitats of species of special concern occur in the watershed?
• What consumption advisories are in effect in the watershed?

2.6 Water Quality

2.6.1 Standards

Show numeric water quality standards in a table (see example Table 5, pg 15).

• What are the numeric water quality standards that apply to water bodies in the watershed?
• What are the numeric water quality standards that apply to ground water in the watershed?
• What narrative water quality standards (that relate to issues in the watershed) apply to water bodies in the watershed?
• What are the designated beneficial uses of the water bodies in the watershed?
• What is aquatic life support threshold M-BISQ score for the bioregion associated with the watershed? (This information is available from MDEQ. Thresholds have not yet been developed for the delta bioregion)

2.6.2 Condition

If a number of water bodies in the watershed are on the state list of impaired waters, it may be preferable to list them in a table (see example Table 6, pg 6. If the table/list is longer than one page, put it in an appendix. A map showing locations and I.D.s of impaired waterbodies should be included.

• What is the current condition of water quality in the water bodies in the watershed?
• What is the current ground water quality in the watershed?
• Are any of the water bodies in the watershed included on the Mississippi list of impaired waters (303(d) List)?
• If water bodies are listed as impaired, which ones are they and why are they listed?
• Is current ground water quality suitable for existing or desired uses?
• What studies of water quality have been conducted on the surface and ground water in the watershed?
• What are the M-BISQ scores for water bodies in the watershed?
• What are the results of any source water assessments conducted in the watershed?
• What source water protection activities are occurring in the watershed?

2.6.3 TMDLs

Summarize TMDLs completed for water bodies in the watershed. Copies of approved TMDLs are available online at www.deq.state.ms.us/MDEQ.nsf/page/TWB_Total_Maximum_Daily_Load_Section?OpenDocument.

If there are may TMDLs that require pollutant reductions, or many waterbodies with different reduction levels, it may be desirable to include a summary table of this information. Use waterbody i.d.s to tie back to information in Section 2.6.2.

- What water bodies and pollutants are addressed in the TMDL?
- What causes of the impairment are identified in the TMDL?
- What pollutant load reductions are recommended in the TMDL?
- What methods for pollutant load reduction are recommended in the TMDL?

3.0 WATERSHED IMPLEMENTATION PLAN

3.1 Goals

- What do we hope to accomplish as a result of implementing the work outlined in this plan?
- What is the time frame for this plan and these goals (i.e. when do we expect to see results)?

3.2 Management Actions

You may want to include a statement here that all quantities shown in the following sections are estimates and subject to change. Management actions include installation of best management practices, research or studies related to watershed issues, and efforts to organize stakeholders into watershed associations. Include information about these types of activities planned for the watershed here.

3.2.1 Action Name

Include a separate subsection (3.2.1, 3.2.2, etc.) for each action/project planned for the watershed. Include the following subheadings for each action/project.

3.2.1.1 Desired Benefits

This would be a good place to mention economic and social benefits. Quantitative estimates of economic and social benefits would be useful (e.g. What effect, in dollars, is increased tourism as a result of water body restoration expected to have on the local economy? How many jobs may be saved or added?). Because of the Federal mandate to show quantitative results from money spent, for those actions/projects using Section 319 funds, EPA requires that quantitative estimates of water quality benefits be included in implementation plans (e.g. What percent reduction is expected in the pollutant load? By how many lbs/day is the load expected to be reduced?).

• What is the issue this action/project is intended to address?
• What is the anticipated result or benefit of this action/project?
• What are the indicators that the intended outcome is occurring?

3.2.1.2 Actors

• What agencies and/or groups will be involved in this project/action?
• What roles will each agency or group have in the project/action? (e.g. technical resource, implementation, monitoring, assessment).
• What existing programs will be utilized, e.g. EQIP, WHIP, Partners for Wildlife?

3.2.1.3 Activities

Note that education activities should be included in Section 4.2 rather than here, and information about monitoring for the purpose of documentation results of the project/action should be included in Section 5.1 rather than here. It may be appropriate to mention that education and monitoring activities are associated with this management action, but refer readers to the appropriate section for details. For those actions/projects using Section 319 funds, EPA requires quantitative estimates of activities, e.g. 10 sediment control structures will be installed, five wells will be drilled.

• What specific activities will occur during this action/project?
• Who will conduct these activities?

• What specific BMPs will be implemented during this action/project?
• Who will install and maintain these BMPs?
• How will locations be selected for BMP installations?

3.2.1.4 Budget

For those actions/projects using Section 319 funds, EPA prefers that, as applicable, per/unit costs be included here. Summary tables are helpful for showing budget information (see example Table 7, pg 16).

• What will it cost to implement this action/project?
• How will the action/project be funded?
• What funding sources will be utilized?
• What amount of funding will be provided by each source?
• Who will be responsible for managing the action/project budget?

3.2.1.5 Schedule

This schedule will be used to track implementation and progress toward goals (Section 3.1). A summary table may be useful here (see example Table 8, pg 16).

• When is the action/project expected to begin and end?
• What are the schedule milestones for the activities of this action/project?
• How will we know if the action/project is being completed in a timely manner, or if it is experiencing delays?
• When will meetings for tracking implementation progress occur?

4.0 EDUCATION STRATEGY

4.1 Objectives

• What is the purpose of the education and outreach activities that are planned for the watershed?
• What are the desired results of education and outreach activities that are planned for the watershed?
• What benefits are expected?

4.2 Activities

Note that education activities are required for all Section 319 funded projects.

4.2.1 Agency/Group

Include a separate subsection for the activities of each agency or group implementing education and/or outreach activities in the watershed.

4.2.1.1 Activities

• What general education and/or outreach activities of this agency or group occur in this watershed?
• What watershed-specific education and/or outreach activities are on-going or planned by this agency or group?
• Who in this agency or group actually implements these activities?
• Who can be contacted for information about, or requests for, these activities?

4.2.1.2 Indicators

• What indicators will be used to track implementation of education and/or outreach activities? (e.g. number of people contacted, number of pamphlets distributed, number of field days)
• What goals, if any, are there for these indicators? (e.g. two field days per year for the next three years)

4.2.1.3 Schedule

This schedule will be used to track implementation and progress toward goals (Section 3.1). A summary table may be useful here (see example Table 8, pg 16).

• Which activities are on-going or continuous?
• What is the time frame for short-term activities?
• What are the schedule milestones for the activities?
• When will meetings for tracking implementation occur?

4.2.1.4 Budget

For those actions/projects using Section 319 funds, EPA prefers that, as applicable, per/unit costs be included here. Summary tables are helpful for showing budget information (see example Table 7, pg 16).

• What is the cost/budget associated with these activities?
• What funding sources will be used?
• What amount of the funding will come from each source?
• Who will track the budget?

5.0 EVALUATION

5.1 Monitoring

Monitoring is important for determining if goals have been achieved, or if progress has been made toward achieving the goals or not. Note that monitoring to document project effects is required for all Section 319 funded projects. It may be more effective to show some of this information in tables similar to those used in previous sections.

• What indicators or parameters will be monitored?
• How often/when will monitoring or sampling occur?
• Where in the watershed will monitoring occur?
• Where will samples be collected?
• Who will conduct monitoring/sampling?

• Who will analyze samples?
• Who will analyze monitoring results?
• What will monitoring cost?
• How will monitoring be funded?

5.2 Assessment of Progress

• How will implementation of plan actions and activities be tracked?
• Who will be responsible for tracking implementation?
• What criteria will be used to determine if the goals from Section 3.1 have been achieved, or if progress has been made toward achieving those goals?

5.3 Plan Evaluation Procedure

The plan will be evaluated in two ways. First, to determine if the plan goals (from Section 3.1) have been achieved (see criteria in Section 5.2). Second, to determine if it reflects the current condition of the watershed, state of science, and issues in the watershed.

• Who will be responsible for implementing the plan evaluation procedure?
• Who will evaluate the plan?
• How will input be solicited for evaluation of the plan?
• How often/when will the plan be evaluated?

5.4 Plan Revision Procedure

Periodically the plan will need to be revised to reflect changes in work occurring in the watershed, in watershed issues, in science, and in the understanding of the watershed system.

• Who will be responsible for implementing the plan revision procedure?
• How will input be solicited for revision of the plan?
• Who will be involved in revising the plan?
• Who will write the revised plan?
• Who will review the revised plan?
• How often/when will the plan be revised?

6.0 REFERENCES

Include references for information cited in text, especially information from studies that interested folks might want to find/read.

7.0 APPENDICES

Include as many appendices as needed for information that is relevant/important to the text, but too large to include in the text. In addition, include the following (not necessarily in this order) as relevant.

APPENDIX	INFORMATION
Stressor summary table (see example Table 9, pg 17)	Include the following information about each of the potential or known problem causes identified in the table in Section 2.5.
	Identify the stressor (one of the causes identified in the table in Section 2.5).
	Why is this stressor believed to be a cause of the problem listed in the stakeholder concerns?
	Where does this stressor occur in the watershed?
	What is the extent of the occurrence of this stressor (e.g. how many mile of stream, acres of land, or sites)?
History of Watershed Implementation Plan	This provides background information about the restoration and/or conservation process in the watershed that would be useful for someone just becoming involved.
	Who are the primary players in restoration and/or conservation efforts in the watershed?
	Who else is involved in restoration and/or conservation efforts?
	What restoration and/or conservation activities have taken place in the watershed in the past?
	What were the results of these past activities?
	What triggered interest in this watershed?
	How was the implementation team formed?
	What is the process for modifying the team?
Checklist of Watershed Implementation Plan Elements (see example Table 10, pg 18)	Include this only if the plan includes Section 319 funded projects. Use this table to indicate to EPA reviewers where they will find their required Watershed Implementation Plan Elements in this plan. We indicated section numbers in the previous plans, in case page numbers changed when printed out on different systems.
Copies of Section 319 project proposals/plans	Of course, these will only be included if the plan includes Section 319 funded projects.

Table 1. Executive Summary Table.

GOAL	WHO	WHAT	WHERE	WHEN	CONTACTS
Reduce organic matter loads, achieve state dissolved oxygen standards, and Fish and Wildlife Support designated use	MS Forestry Commission	Aerial survey to determine silviculture activity and sampling locations	Entire Watershed	2004	Michael Sampson, MS Forestry Commission 601-359-1812
		Evaluate potential risks to water quality from recently harvested forest tracts.		2005	
		Contact owners of forest tracts at risk for water quality to inform them of risk and suggest BMPs		2005	
	MS Department of Health	Locate failing septic systems	Entire Watershed	2004-2005	Eugene Herring, MS State Department of Health 601-576-7779
	MDEQ	Water quality sampling	Bogue Chitto Creek	2005	Adrien Carroll, MDEQ 601-961-5716
	MSWCC, USDA NRCS, MSU Cooperative Extension Service, US FWS	Continue existing programs and projects related to farmer education, BMP implementation, and habitat conservation.	Entire Watershed	2004-2008	Larry Williams, NRCS 601-965-5227 Mark Gilbert, MSWCC 601-354-7645 Larry Oldham MSU-Extension Service 662-325-2701 Lloyd Inmon, US FWS 601-321-1134
	MSU Cooperative Extension Service	Initiate Phase I of Medallion Farmer Program	Hinds & Madison Counties	2005	Larry Oldham, MSU-Extension Service 662-325-2701
	City of Clinton	Implement pollution reduction activities specified in Storm Water Management Plan	Clinton City Limits	2004-2008	Richard Broome, City of Clinton 601-924-5462
	US Fish and Wildlife Service	Wetland inventory	Entire watershed	2005	Lloyd Inmon, US FWS 601-321-1134

Table 2. Stakeholder Concerns

STATUS	DESCRIPTION
Concern:	Biological impairment and organic enrichment/low dissolved oxygen
Causes:	Agricultural runoff, runoff from lawns and golf courses, runoff from urban areas, malfunctioning on-site wastewater treatment units, loss or alteration of wetlands, NPDES point sources, hydromodification
Location:	Impairment occurs in Bogue Chitto Creek, Limekiln Creek, and Straight Fence Creek
Extent:	Headwaters to confluence with Big Black River
Concern:	High nutrient levels in surface water
Causes:	Runoff from croplands, pastures, livestock operations, lawns, golf courses, and urban areas; loss or alteration of wetlands; hazardous waste operations
Location:	Impairment occurs in Bogue Chitto Creek, Limekiln Creek, and Straight Fence Creek
Extent:	Headwaters to confluence with Big Black river

Table 3. Threatened and endangered species

Scientific Name	Common Name	Federal Status	Habitat
Acipenser oxyrinchus desotoi	Gulf Sturgeon	Threatened	Primarily marine/estuarine in winter; migrates to rivers in spring for spawning; returns to sea/estuary in fall. First two years are spent in riverine habitats. Big river, low gradient, medium river, moderate gradient
Falco peregrinus	Peregrine Falcon	Endangered	Herbaceous wetland, riparian Cliff, urban/edificarian, woodland - conifer, woodland – hardwood, woodland – mixed When not breeding, occurs in areas where prey concentrate, including farmlands, marshes, lakeshores, river mouths, tidal flats, dunes and beaches, broad river valleys, cities, and airports.

Table 4. Species of special concern

Scientific Name	Common Name	Habitat
Accipiters cooperii	Cooper's Hawk	Riparian, forest - conifer, forest - hardwood, forest - mixed, suburban/orchard, woodland - conifer, woodland - hardwood, woodland - mixed Generally is an inhabitant of deep woods, utilizing thick cover both for nesting and hunting. Openings, especially where hedgerows or windbreaks offer shelter for prey species, may also be used when foraging. Johnsgard (1990) states that Cooper's are less fussy about the forest type than sharp-shins, and are more often "associated with deciduous and mixed forests and open woodland habitats such as woodlots, riparian woodlands, semiarid woodlands of the southwest, and other areas where the woodlands tend to occur in patches and groves or as spaced trees."
Alosa alabamae	Alabama Shad	big river, low gradient, medium river, moderate gradient Anadromous; adults live in saltwater and migrate into medium to large coastal rivers to spawn.

Table 5. Numeric water quality standards

Parameter	Criteria
Dissolved Oxygen	5.0 mg/L daily average, 4.0 mg/L instantaneous
PH	Between 6.0 and 9.0 su
Temperature	32.2 deg C
Fecal coliform	May – October: geometric mean of 200 per 100 mL, 400 per 100 mL less than ten percent (10%) of the time during a 30 day period. November – April: geometric mean of 2000 per 100 mL, 4000 per 100 mL less than ten percent of the time during a 30 day period.
Specific conductance	1000 uohms/cm
Dissolved Solids	750 mg/L monthly average, 1500 mg/L instantaneous

Table 6. Impaired water bodies included on the most recent 303(d) list

Water Body Name	Water Body ID	Impaired Beneficial Use	Pollutant/Cause
Johnson Creek	MS311E	Aquatic Life Support	Biological impairment
Strayhorn Creek	MS317E	Aquatic Life Support	Biological impairment
Whites Creek	MS311WE	Aquatic Life Support	Biological impairment
Ark Bayou	MS319E	Aquatic Life Support	Nutrients Organic enrichment/low DO Pesticides Sediment/siltation
Buck Island Bayou	MS313E	Aquatic Life Support	Nutrients Organic enrichment/low DO Pesticides Sediment/siltation

Table 7. Budget Summary

Activity	Unit Cost	Number of Units	Amount	Funding Sources (amount contributed by source)
Total				

Table 8. Schedule

Activity	Milestone	Begin	End
Sediment BMPs	5 Landowner contracts in target area	Month 1	Month 4
	Installation	Month 5	Month18

Table 9. Description of Stressors

Status	Description
Stressor:	Runoff from croplands
Justification:	Water quality sampling of cropland stormwater runoff during the Bogue Chitto Creek Watershed Nonpoint Source Project showed that runoff from croplands does contain high concentrations of suspended solids and phosphorus concentrations approximately an order of magnitude greater than those measured in Bogue Chitto Creek in 1999. TKN and nitrite + nitrate concentrations in the cropland runoff are also a little higher than the concentrations measured in Bogue Chitto Creek
Location:	See Figure 2.3 for the locations of croplands along streams.
Extent:	There were approximately 845 acres of cropland with low plant residues in 2001. The majority were in the unnamed tributary subbasin 0201, and Bogue Chitto Creek subbasin upstream of Limekiln Creek (see Figure 2.3).
Stressor:	Runoff from pastures
Justification:	Runoff from pastures has the potential to contain nutrients and organic matter from animal waste deposited by grazing animals and fertilizers, as well as sediment. Allowing livestock into streams can result in increased suspended sediments and nutrients and habitat alteration. Poor quality pasture has the potential to contribute sediments to surface waters.
Location:	See Figure 2.3 for the locations of pastures adjacent to streams, and Figures 3.2 and 3.3 for sites where livestock have access to streams.
Extent:	There are approximately 4,000 acres of heavily overgrazed pasture in the watershed, and 46 sites where livestock have access to streams (TVA unpublished).

Table 10. Plan checklist

FY04/05 319 Watershed-Based Plans Guide

Name of Watershed-Based Plan: Bogue Chitto Watershed Implementation Plan

Required Watershed Elements	Location
a. An identification of the causes and sources or groups of similar sources that will need to be controlled to achieve the load reductions estimated in this watershed-based plan (and to achieve any other watershed goals identified in the watershed-based plan), as discussed in item (b) immediately below. Sources that need to be controlled should be identified at the significant subcategory level with estimates of the extent to which they are present in the watershed (e.g., X numbers of dairy cattle feedlots needing upgrading, including a rough estimate of the number of cattle per facility; Y acres of row crops needing improved nutrient management or sediment control; or Z linear miles of eroded streambank needing remediation).	Table 2.7, Appendix C
b. An estimate of the load reductions expected for the management measures described under paragraph (c) below (recognizing the natural variability and the difficulty in precisely predicting the performance of management measures over time). Estimates should be provided at the same level as in item (a) above (e.g., the total load reduction expected for dairy cattle feedlots; row crops; or eroded streambanks).	Chapter 3, Sections 3.2.1.1, 3.2.3.1, 3.2.4.1

Required Watershed Elements	Location
c. A description of the NPS management measures that will need to be implemented to achieve the load reductions estimated under paragraph (b) above (as well as to achieve other watershed goals identified in this watershed-based plan), and an identification (using a map or a description) of the critical areas in which those measures will be needed to implement this plan.	Chapter 3, sections 3.2.1.2, 3.2.2.2, 3.2.3.2, 3.2.4.2, 3.2.5.2, 3.2.6.2
d. An estimate of the amounts of technical and financial assistance needed, associated costs, and/or the sources and authorities that will be relied upon, to implement this plan. As sources of funding, States should consider the use of their Section 319 programs, State Revolving Funds, USDA's Environmental Quality Incentives Program and Conservation Reserve Program, and other relevant Federal, State, local and private funds that may be available to assist in implementing this plan.	Chapter 3, Sections 3.2.1.4, 3.2.2.4, 3.2.3.4, 3.2.4.4, 3.2.5.4
e. An information/education component that will be used to enhance public understanding of the project and encourage their early and continued participation in selecting, designing, and implementing the NPS management measures that will be implemented.	Chapter 4
f. A schedule for implementing the NPS management measures identified in this plan that is reasonably expeditious.	Chapter 3, sections 3.2.1.3, 3.2.2.3, 3.2.3.3, 3.2.4.3, 3.2.5.3
g. A description of interim, measurable milestones for determining whether NPS management measures or other control actions are being implemented.	Same as above

Required Watershed Elements	Location
h. A set of criteria that can be used to determine whether loading reductions are being achieved over time and substantial progress is being made towards attaining water quality standards and, if not, the criteria for determining whether this watershed-based plan needs to be revised or, if a NPS TMDL has been established, whether the NPS TMDL needs to be revised.	Chapter 5, Section 5.2, pg 5-2
i. A monitoring component to evaluate the effectiveness of the implementation efforts over time, measured against the criteria established under item (h) immediately above.	Chapter 5, Section 5.1, pg 5-1

RESOURCES

Watershed Description:
MARIS on-line mapping for Mississippi at http://www.maris.state.ms.us/HTM/maps.htm

Wildlife Resources:
Mississippi Natural Heritage Inventory on-line at http://www.mdwfp.com/museum/html/research/general_info.asp, NatureServe Explorer database of species information on-line at http://www.natureserve.org/explorer/

Water Quality Standards:
Through MDEQ Basin Management water quality standards website at http://www.deq.state.ms.us/MDEQ.nsf/page/WMB_Water_Quality_Standards?OpenDocument

Designated Beneficial Uses:
through the MDEQ Basin Management website at http://www.deq.state.ms.us/MDEQ.nsf/page/WMB_Basin_Management_Approach?OpenDocument

MBIS-Q thresholds:
Contact MDEQ. Note that thresholds have not been set for the Delta region.

303(d) List and 305(b) report:
MDEQ on-line at http://www.deq.state.ms.us/MDEQ.nsf/page/TWB_Total_Maximum_Daily_Load_Section?OpenDocument

Approved TMDLS:
MDEQ TMDL website at http://www.deq.state.ms.us/MDEQ.nsf/page/TWB_Total_Maximum_Daily_Load_Section?OpenDocument or through Basin Management website at http://www.deq.state.ms.us/MDEQ.nsf/page/WMB_Basin_Management_Approach?OpenDocument

Potential management actions:
Mississippi NRCS program website at http://www.ms.nrcs.usda.gov/programs/, particularly the EQIP program conservation practice, sign up, and ranking documents