

NONPOINT SOURCE SUMMARY PAGE
FY 06 319(h) Project # 06-9

1. **Title of Project:** WQMP Implementation in the Middle and South Bosque River Watersheds.
2. **Project Goals/Objectives:** (1) To foster coordinated technical assistance activities in the Hog Creek, Middle Bosque, and South Bosque River Watersheds between the TSSWCB, the McLennan County SWCD #512, and NRCS. (2) To provide technical and/or financial assistance to landowners to aid in the development and implementation of WQMPs. (3) To compile information on the location and types BMPs for each WQMP implemented
3. **Project Tasks:** (1) Program Coordination with Project Participants, (2) Development and implementation of WQMPs, (3) Compilations of WQMPs implemented in the Hog Creek, Middle Bosque, and South Bosque River Watersheds.
4. **Measures of Success:** Implementation of 35 WQMPs within the Hog Creek, Middle Bosque, and South Bosque River Watersheds.
5. **Project Type:** Statewide (); Watershed (); Demonstration ()
6. **Waterbody Type:** River (); Groundwater (); Other ()
7. **Project Location:** Segments 1225 (Lake Waco), 1225A (Hog Creek), 1246 (Middle/South Bosque)
8. **NPS Management Program Reference:** 2005 NonPoint Source Management Program .
9. **NPS Assessment Report Status:** Impaired (); Impacted (); Threatened (); Other ()
10. **Key Project Activities:** Hire Staff (); Monitoring (); Regulatory Assistance (); Technical Assistance (); Education (); Implementation (); Demonstration (); Other ()
11. **NPS Management Program Elements:** Milestones from the “2005 Texas Nonpoint Source Pollution Assessment Report and Management Program”, which will be implemented include: (1) providing financial assistance for the implementation of Water Quality Management Plans to reduce NPS pollution (2) Coordinating with Federal, State, and Local Programs (3) Committing to technology transfer, technical support, administrative support and cooperation between agencies and programs for the prevention of NPS pollution.
12. **Project Costs:** Federal (\$477,770); Non-Federal Match (\$217,833); Total Project (\$695,603)
13. **Project Management:** Texas State Soil and Water Conservation Board
14. **Cooperating Entities:** TSSWCB Dublin Regional Office; McLennan County SWCD; Natural Resources Conservation Service.
15. **Project Period:** November 1, 2006 – May 31, 2011

WQMP Implementation Assistance in the Middle and South Bosque River Watersheds
Texas State Soil and Water Conservation Board
FY06 CWA Section 319 (h) Project # 06-9

WORKPLAN

Problem/Need Statement:

According to the *2002 Texas Water Quality Inventory*, Lake Waco, the South Bosque (1246) and Tonk Creek (1246D) are fully supporting their designated uses; however, there are nutrient enrichment concerns due to elevated nitrate / nitrite nitrogen levels.

The goal of this project is to enhance the efforts and activities of the Texas State Soil and Water Conservation Board (TSSWCB) and the McLennan County Soil and Water Conservation District (SWCD) #512 to reduce and/or prevent nonpoint source (NPS) pollution loadings, from cropland, into Lake Waco. The Hog Creek, Middle Bosque, and South Bosque watersheds are predominantly agricultural, containing many row crop and small-scale beef cattle operations.

As the lead agency for the State of Texas in abating agricultural NPS pollution, the State Board works closely with local SWCDs to reduce NPS pollution from various agricultural activities. The State Board addresses the prevention or abatement of NPS pollution through the Water Quality Management Plan (WQMP) program. A WQMP is a site-specific plan, which includes appropriate land treatment practices, production practices, technologies and combinations thereof, and an implementation schedule. This program is administered by the TSSWCB and provides agricultural producers in priority areas such as the Hog Creek, Middle Bosque, and South Bosque River Watersheds an opportunity to comply with State water quality laws through traditional, voluntary, incentive-based programs. The TSSWCB oversees and is responsible for the financial assistance component of the program. The local SWCD will provide or arrange for technical assistance to applicants to develop WQMPs.

In Texas, the USDA-Natural Resources Conservation Service (NRCS) works cooperatively with local SWCDs in providing technical assistance on various soil and water conservation issues including NPS pollution. A limited amount of technical assistance will be provided by the NRCS.

General Project Description:

This project will consist of TSSWCB working cooperatively with the McLennan County SWCD #512 in the Hog Creek, Middle Bosque, and South Bosque River Watershed drainage area to provide technical and financial assistance to landowners in the implementation of WQMPs. The primary focus of the 319(h) program is to provide funds to States to implement best management practices (BMP) to abate or reduce NPS pollution. The use of 319(h) funds will greatly improve and enhance the abilities of the local SWCD to provide technical and financial assistance to landowners in the implementation of WQMPs.

In this project, technical assistance will be provided by the McLennan County SWCD #512 and the TSSWCB Dublin Regional Office to landowners within the Hog Creek, Middle Bosque, and South Bosque River Watershed drainage area to develop and implement WQMPs within the watershed. A technician will be hired by the McLennan County SWCD to provide 100% effort in developing and implementing WQMPs. Technical assistance is best provided by local SWCDs because it will allow for greater local support from landowners in the implementation of WQMPs.

The objective of WQMP implementation is to achieve a level of pollution prevention or abatement determined by the State Board in consultation with the local SWCD to be consistent with State water quality standards. The local SWCD will determine which landowners receive technical and financial assistance for the development and implementation of WQMPs. Financial assistance will be prioritized by

the local SWCD based on proximity to: 1. Lake Waco 2. South Bosque 3. Middle Bosque 4. Hog Creek. High priority will also be given to the most cost effective and needed pollution abatement practices to address sediment and nutrient loadings into Lake Waco.

The SWCD will offer a sign-up for the implementation assistance. To obtain a WQMP, landowners and operators will submit a request for implementation assistance to the local SWCD. Upon compiling the list of producers who are interested in assistance, the SWCD will review and rank these requests based on the above listed priorities. Water quality improvement and protection will be the basis for making these decisions. Land units will further be prioritized based on site evaluations to achieve the greatest water quality benefits in the watershed.

Upon approval of the request by the SWCD, the technician will work with the landowners to develop the WQMP. WQMP development includes such activities as:

- Developing conservation plan maps showing boundaries, fields, land use, acres and facilities
- Acquiring soil maps with appropriate interpretations
- Developing an implementation schedule
- Completing worksheets used during the planning phases (nutrient management plans, erosion worksheets, and field notes)

Once the technician completes the WQMP, the landowner, NRCS, and SWCD must sign it. It will then be sent by the SWCD to the TSSWCB Regional Office in Dublin for technical review and certification. Upon certification, the technician will work with the landowner in taking the appropriate steps needed to implement the components of the WQMP. If the landowner does not implement the WQMP according to the conditions established in the plan, then the TSSWCB has the authority to decertify the plan. The technician will complete 100% status reviews on all WQMPs developed for the duration of the project.

Task, Objectives, Schedules, and Estimated Costs:

TASK 1: Program Coordination with Project Participants

Costs: \$150,520 (Federal), \$4,500 (Non-Federal), \$155,020 (Total)

Objective: To foster coordinated technical assistance activities between the TSSWCB, NRCS and McLennan County SWCD in the Hog Creek, Middle Bosque River, and South Bosque River Watersheds.

Subtask 1.1 The McLennan County SWCD will hire a technician to coordinate and carry out the project. The TSSWCB Dublin Regional Office will train the technician. (Start Date: Month 1; Completion Date: Month 36)

Subtask 1.2: The SWCD technician will attend monthly McLennan County SWCD board meetings to discuss technical assistance activities, project schedule, lines of responsibility, communication needs, and other required tasks with project participants. (Start Date: Month 1; Completion Date: Month 54)

Subtask 1.3: The SWCD technician will coordinate with other agencies and programs providing landowners incentives for adopting Best Management Practices. (Month 1 through month 54)

Subtask 1.4: The SWCD technician will attend meetings with the TSSWCB project manager and other meetings, as needed, to review project status, deliverables, etc. (Start Date: Month 1; Completion Date: Month 54)

Subtask 1.5: The SWCD technician will prepare quarterly reports and a final report for submittal to the TSSWCB. (Start Date: Month 1; Completion Date: Month 54)

Deliverables:

- Quarterly Reports
- Final report at culmination of project in electronic format

TASK 2: *Development and Implementation of WQMPs*

Costs: \$311,800 (Federal), \$213,333 (Non-Federal), \$525,133(Total)

Objective: To provide technical assistance to landowners in developing and implementing WQMPs within the Hog Creek, Middle Bosque River, and South Bosque River Watersheds.

Subtask 2.1: The SWCD technician will develop a minimum of 35 WQMPs within the Hog Creek, Middle Bosque River, and South Bosque River Watersheds. (Start Date: Month 1; Completion Date: Month 54)

Subtask 2.2: The SWCD technician will send out notifications announcing the availability of assistance for implementing WQMPs, and will assist the McLennan County SWCD in accepting and prioritizing the WQMP applications. The TSSWCB project manager must approve all announcements, letters and publications developed before distribution. (Start Date: Month 1; Completion Date: Month 54)

Subtask 2.3: The SWCD technician, with assistance from NRCS and the TSSWCB Dublin Regional Office, will provide landowners with information on appropriate best management practices and will work with landowners in developing and implementing WQMPs within the Hog Creek, Middle Bosque River, and South Bosque River Watersheds. (Start Date: Month 1; Completion Date: Month 54)

Subtask 2.4: The TSSWCB will provide technical review and certification of WQMPs. (Start Date: Month 1; Completion Date: Month 54)

Subtask 2.5: The SWCD technician will conduct status reviews on all WQMPs to ensure BMP implementation schedules are being followed. (Start Date: Month 1; Completion Date: Month 54)

Subtask 2.6: The SWCD technician will assist holders of WQMPs in the acquisition of current soil tests though utilization of project funding. (Start Date: Month 1; Completion Date: Month 54)

Deliverables:

- 35 WQMPs developed and implemented within the watershed.
- Records of BMPs implemented to date by each producer.
- Copies of status reviews.
- Records of soils tests and summary of test results.

TASK 3: Compilation of WQMPs Implemented in the Hog Creek, Middle Bosque River, and South Bosque River Watersheds.

Costs: \$15,450 (Federal), \$0 (Non-Federal), \$15,450 (Total)

Objective: To compile information on the location and types of BMPs for each WQMP implemented.

Subtask 3.1 The SWCD technician, with assistance from the NRCS, TSSWCB Dublin Regional Office and the SWCDs, will compile information on the location and types of BMPs for each WQMP implemented within the Hog Creek, Middle Bosque River, and South Bosque River Watersheds. (Start Date: Month 1; Completion Date: Month 54)

Deliverables:

- A spreadsheet and map showing the location and types of BMPs for each WQMP implemented.

Coordination, Roles and Responsibilities:

Participating organizations and agencies along with their roles in this project include:

- Texas State Soil and Water Conservation Board - Project oversight. Responsible for technical review and certification of WQMPs. Work with, and assist as needed, the SWCD in the implementation and development of WQMPs. Also assist the SWCD in inventorying current BMPs and land use practices and the implementation of WQMPs.
- McLennan County SWCD - Responsible for the supervision of the technician. Responsible for developing, and implementing WQMPs within the Hog Creek, Middle Bosque, and South Bosque River Watersheds. Responsible for the tracking of soils tests funded through the project. Responsible for tracking the implementation of WQMPs. Responsible for project quarterly reports and Final Report.
- Natural Resources Conservation Service - Work with, and assist as needed, local SWCD in the implementation and development of WQMPs.

Public Participation:

This is an internal TSSWCB project with the McLennan County SWCD and NRCS. This project will provide technical and financial assistance to landowners in this SWCD in the implementation of WQMPs in the Hog Creek, Middle Bosque, and South Bosque River Watersheds.

Measures of Success:

- Implementation of 35 WQMPs throughout the course of the project by the technician within the targeted area.

**Middle and South Bosque River Watershed project
Itemized Budget 6/15/10
Contract 06-9**

Object Class Category	Federal	Non-Federal	Total
1 Personnel			
One Technician at 100% effort	\$143,700	\$0	\$143,700
District Board Members	\$0	\$4,500	\$4,500
Subtotal Personnel	\$143,700	\$4,500	\$148,200
2 Fringe Benefits			
Benefits at 28%	\$11,020	\$0	\$11,020
Subtotal Fringe	\$11,020	\$0	\$11,020
3 Travel	\$450	\$0	\$450
4 Equipment	\$0	\$0	\$0
Subtotal Equipment	\$0	\$0	\$0
5 Supplies			
Computer/Printer	\$3,000	\$0	\$3,000
General Office Supplies at \$50/month	\$1,800	\$0	\$1,800
Subtotal Supplies	\$4,800	\$0	\$4,800
6 Contractual			
Financial Audit	\$4,000	\$0	\$4,000
Soil Test	\$2,000	\$0	\$2,000
Subtotal Contractual	\$6,000	\$0	\$6,000
7 Construction			
Financial Assistance for WQMP Implementation	\$311,800	\$213,333	\$525,133
Subtotal Construction	\$311,800	\$213,333	\$525,133
8 Other	\$0	\$0	\$0
Subtotal Other	\$0	\$0	\$0
9 Total Direct Costs	\$477,770	\$217,833	\$695,603
10 Total Indirect Costs	\$0	\$0	\$0
11 Total Costs	\$477,770	\$217,833	\$695,603