

**Texas A&M AgriLife
Texas Water Resources Institute**

**Texas Watershed Planning Short Course Project
EPA Clean Water Act §319(h) Grant
TCEQ Agreement No. 582-7-77049**

Quarter no. 7 From 9/1/08 Through 11/31/08

I. Abstract

This quarter, activities focused on preparing for and advertising the second Texas Watershed Planning Short Course, scheduled for January 12-16, 2009. The agenda was revised, as was the pre-/post-course exam. Registration for the second course was opened on June 9, 2008 and to date, a total of 28 individuals have registered for the course. Emails, publications, and the Web site are being used to advertise the course. The Watershed Planning Short Course Webpage (<http://watershedplanning.tamu.edu/>) has been visited by a total of 1,630 visitors since it became accessible online. It will continue to be updated as new material is developed for the course. Next quarter, the second short course will be offered and preparations will begin on preparing for the next short course tentatively scheduled for August 2009.

II. Overall Progress and Results by Objective and Task

OBJECTIVE 1: PROJECT COORDINATION AND ADMINISTRATION

Task 1.1: Team Organization – TWRI will assemble a team made up of university, TCEQ, TSSWCB, EPA, TCE and Texas River Systems Institute personnel, along with EPA trained Watershed Coordinators, to guide the development and delivery of the Texas Watershed Planning Short Course to water professionals throughout Texas. This team will meet quarterly to discuss project status, provide input, and coordinate project activities. Quarterly meetings will consist of face-to-face meetings, teleconferences, and TTVN meetings as appropriate.

The following actions have been completed during this reporting period:

- a. On October 31 and November 10, the TWRI Project Manager met with the River Systems Institute via conference call to discuss revising the Pre-/Post-Short Course Exam.
- b. On November 14, the TWRI Project Manager met with the members of the *Perspectives on WPPs* Panel to discuss and coordinate the presentations of the panel members.

70% Complete

Task 1.2: Project Coordination – TWRI will coordinate the project with other ongoing watershed efforts including, but not limited to the Southern Region Water Quality Coordination Project, TSSWCB Wharton Regional Office Watershed Coordination Project, TCE Watershed Stewardship Program, and TCEQ TMDL Program.

The following actions have been completed during this reporting period:

- a. Texas AgriLife Extension Service (Extension), formerly TCE, is a member of the planning team and has been subcontracted to assist with the Short Course, ensuring coordination with the Watershed Stewardship Program and Southern Region Water Quality Coordination Project.
- b. TSSWCB is a member of the planning committee and has participated in all planning team meetings. Extension and TWRI regularly participate in the TSSWCB Wharton Regional Office Watershed Coordination Project, further ensuring coordination.
- c. TCEQ TMDL Program personnel are members of the planning team and participate in planning meetings when possible.

70% Complete

Task 1.3: Quarterly Progress Reports – TWRI will prepare electronic quarterly progress reports (QPRs) for submission to the TCEQ, TSSWCB, EPA, and all members of the team. QPRs will be submitted by the 15th of the month following each state fiscal quarter for incorporation into the Grant Reporting and Tracking System (GRTS). The Reports are to include (1) Status of deliverables for each objective and (2) Narrative description in Progress Report format.

The following actions have been completed during this reporting period:

- a. TWRI submitted Year 2, Quarter 2 Progress Report on September 15, 2008.

70% Complete

Task 1.4: Project Oversight – TWRI Project Manager will provide technical and fiscal oversight to ensure Tasks and Deliverables are acceptable and completed as scheduled and within budget. With TCEQ Project Lead authorization, TWRI may secure the services of contractors as necessary. Project oversight status will be provided with the Quarterly Progress Status Reports. In addition, TWRI will attend meetings with project manager and other meetings, as needed, to review project status, deliverables, etc.

The following actions have been completed during this reporting period:

- a. Subcontracts were initiated with the Texas Institute for Applied Environmental Research (TIAER) at Tarleton State and the River Systems Institute (RSI) at Texas State to secure assistance with development and delivery of the Short Course. As of 8/31/08, the following expenditures had been reported:
 - TIAER = \$1,444
 - RSI = \$1,027

- b. Subaccounts were initiated with Texas AgriLife Research (Biological and Agricultural Engineering Department) and Texas AgriLife Extension Service (Soil and Crop Sciences Department) to secure assistance with development and delivery of the Short Course. As of 8/31/08, the following expenditures had been reported:

- Texas AgriLife Research = \$11,721
- Texas AgriLife Extension Service = \$696

70% Complete

Task 1.5: Reimbursement Forms – TWRI will submit appropriate Reimbursement Forms (2 copies), purchase vouchers (269a, and 269a 1-4) and Small and/or Minority Owned Business Report (where applicable) by the last day of the month following each state fiscal quarter.

The following actions have been completed during this reporting period:

- a. The total federal funds expended as of September 2008 were \$80,526.63.

42% Complete

Task 1.6: Contractor Evaluation – TWRI will participate in Contractor Evaluation.

The following actions have been completed during this reporting period:

- a. The Contractor Performance Evaluation Report for year 2 was submitted to TCEQ on August 7, 2008 covering the period of 9/1/07 – 8/31/08.

66% Complete

OBJECTIVE 2: DEVELOP TRAINING MATERIALS AND EDUCATIONAL PROGRAM FOR WATERSHED PLANNING SHORT COURSE

Task 2.1: Compile and Summarize Existing Programs – TWRI will collect and compile information about existing training programs.

The following actions have been completed during this reporting period:

- a. Information on existing programs was compiled and discussed with the planning team during the first and second quarters. No further work is planned.

100% Complete

Task 2.2: Develop Training Program – As directed by the TCEQ and Project Team, TWRI will modify existing training programs, such as the EPA Watershed Training Materials and those found as a result of subtask 2.1, to fit the needs of Texas professionals.

The following actions have been completed during this reporting period:

- a. Based on input from the Project Team and first short course participants, the short course agenda was revised to improve the Second Short Course scheduled for January 12-16, 2009. The final agenda for the Second Short Course is attached (Appendix A).

90% Complete

Task 2.3: Watershed Training Webpage – TWRI will develop (Months 1-3), host, and maintain (Months 3-36) an Internet Web site for information sharing and use by short course participants.

The following actions have been completed during this reporting period:

- a. TWRI developed the Website (<http://watershedplanning.tamu.edu/>) in May 2007 for information sharing and use by short course participants.
- b. The website was viewed by 111 unique visitors in September 2008.
- c. The website was viewed by 137 unique visitors in October 2008.
- d. The website was viewed by 139 unique visitors in November 2008.
- e. So far in 2008, the website has been viewed by a total of 1450 unique visitors. Including the 180 unique visitors in 2007, a grand total of 1,630 unique visitors have viewed the website.

70% Complete

OBJECTIVE 3: CONDUCT WATERSHED PLANNING SHORT COURSE AND OTHER WATERSHED TRAINING

Task 3.1: Organize Short Course Events – TWRI will identify key speakers for training, make all arrangements for facilities, advertise the short course, conduct registration, and make all travel arrangements for speakers. Travel for speakers will be fully paid for through project funds.

The following actions have been completed during this reporting period:

- a. The second *Watershed Planning Short Course* is set for January 12-16, 2009.
- b. The third *Watershed Planning Short Course* is set for August 17-21, 2009
- c. TWRI has reserved the Mayan Ranch for the second and third course.
- d. Eighteen speakers will assist as instructors for the second Short Course.
- e. Registration for the second Short Course was opened on June 9, 2008. To date, 28 individuals have registered for the January 2009 Course (Appendix B).
- f. Registration reminders were emailed to prospective participants identified by EPA, TCEQ, TSSWCB and others on September 10, October 13, November 18, and December 12.
- g. In September, TWRI mailed *Water Resources Training Courses* postcards highlighting upcoming training courses hosted by TWRI (including the *Watershed Planning Short Course*) to 7,200 engineering firms nationwide.
- h. On October 20 and December 4, TWRI sent *Water Resources Training Courses* e-mail updates regarding training courses (including the *Watershed Planning Short Course*) to state agencies, river authorities, consulting firms, and academia.
- i. On November 5, the short course was advertised through the WATERPROGRAMS-List Serv and on December 15, the short course was advertised again on the OK-NPS List Serv.
- j. On December 4, TWRI provided a presentation on the *Texas Watershed Planning Short Course* to the Texas Plant Protection Conference in College Station.
- k. On December 8, the short course was advertised through Texas A&M Agricultural Communications AgNews.

50% Complete

Task 3.2: Deliver Short Course – TWRI will facilitate the delivery of the Texas Watershed Planning Short Course to 120 water professionals in Texas and the surrounding region, providing certifications to participants. A \$350 registration fee will be charged to short course participants. As funding and need allow, additional offerings of the course will be considered.

The following actions have been completed during this reporting period:

- a. The first short course was held June 2-6, 2008. Forty-three water professionals participated.

36% Complete

Task 3.3: Organize Applied Fluvial Geomorphology Short Course Event – TWRI will coordinate with Wildland Hydrology to provide Applied Fluvial Geomorphology Short Course to 40 water professionals in Texas. A registration fee of \$500 will be charged to short course participants.

The following actions have been completed during this reporting period:

- a. Forty-four participants from TPWD, TCEQ, TXDOT, TFS, Extension, and TWRI participated in the *AFG Short Course* held on January 28-February 1, 2008.

100% Complete

Task 3.4: Develop and Administer Questionnaire – TWRI will oversee the development of a questionnaire to gauge the knowledge gained by the course participants. This questionnaire will be administered at the beginning and end of each short course to demonstrate the course's effectiveness and identify areas of the course needing adjustment.

The following actions have been completed during this reporting period:

- a. The pre- / post-course exam was revised in preparation for the second short course. The River Systems Institute, with the assistance of Jeff Thornton, led this effort.

50% Complete

OBJECTIVE 4: SUBMIT FINAL REPORT

Task 4.1: Draft Report

The following actions have been completed during this reporting period:

- a. No activity.

0% Complete

Task 4.2: Final Report

The following actions have been completed during this reporting period:

- a. No activity.

0% Complete

III. Related Issues/Current Problems and Favorable or Unusual Developments

- N/A

IV. Projected Work for Next Quarter

- Prepare and submit Year 2, Quarter 3 Progress Report
- Conduct Second *Texas Watershed Planning Short Course*
- Update Webpage as materials are developed
- Make needed adjustments to short course agenda & materials and begin making arrangements for third short course

Appendix A

Texas Watershed Planning Short Course

Course Agenda – January 12-16, 2009

Monday, January 12, 2009

Facilitator: Kevin Wagner

- 11:00 – 1:00 pm **Registration (Distribute Knowledge Assessment)**
A pre-course examination will determine the knowledge level of each participant prior to going through the course. The pre-course exam results will be compared to the post-course exam results to assess course impact/knowledge gained.
- 1:00 – 2:00 pm **Introduction..... Wagner**
This session will provide the group (1) the opportunity to introduce themselves and the watersheds they are working in, (2) information on facilities and ground rules, (3) an overview of the course, its purpose and structure and (4) a brief discussion of *The Best Watershed-Based Plans in the Nation* and its implications on the training. It will also provide an introduction to the watershed planning process as described in Chapter 2 of EPA's *Handbook for Developing Watershed Plans to Restore and Protect Our Waters (Handbook)* and briefly discuss why plans should be developed, how watershed protection plans (WPPs) interact with other water resources planning processes, and background on watershed plans/planning.
- 2:00 – 2:30 pm **Nine Elements of a Watershed Protection Plan Rush**
Provide an in-depth overview of the Nine Elements to be included in a WPP as outlined in Chapter 2 of the *Handbook*.
- 2:30 – 3:30 pm **Perspectives on WPPsPanel**
A panel composed of Randy Rush (EPA), Aaron Wendt (TSSWCB), Bill Carter (TCEQ), and Ken Banks (City of Denton) will discuss (1) the goals and importance of WPPs, (2) how WPPs fit into local, state and federal objectives and interact with other local, state and federal programs, and (3) current issues affecting watershed planning efforts.
- 3:30 – 3:50 pm **Break**
- 3:50 – 5:15 pm **Working with Stakeholders to Move the Process ForwardMacPherson**
Stakeholders form the backbone of your watershed planning effort. Learn tips on how to get off on the right foot and keep the energy going throughout your watershed planning and implementation program. Topics to be addressed include: determining who needs to be involved, making meetings count, diffusing conflict, making decisions using a consensus-based approach, and sustaining the stakeholder group. This session will focus on Chapter 3 of the *Handbook*.

5:15 – 6:00 pm **Partnership Building Experiences in Plum Creek..... Dictson**
Experiences in Plum Creek watershed with getting local involvement, announcing meetings, setting up the committee and subcommittees, publicizing the effort, what needs to be discussed/decided at each meeting, and timelines will be discussed. Sample invitation letters, ground rules, press releases, and other materials will be provided.

6:45 pm **Dinner**

8:00 – 9:00 pm
(optional) **Q & A**
This session provides participants the opportunity to discuss issues and questions regarding partnership building, the nine key elements, and WPP perspectives with other watershed coordinators, EPA, TCEQ and TSSWCB.

Tuesday, January 13, 2009

Facilitator: Nikki Dictson

8:00 – 8:45 am **Breakfast**

8:45 – 9:45 am **Using Outreach to Develop & Implement WPPs - Element E.....MacPherson**
Outreach is a powerful tool to get stakeholders involved early in the planning process, promoting behavior change in the watershed, and enhancing the implementation of your management strategies in the watershed. Learn tips and tools to conduct effective outreach without breaking the bank. This session will focus on Chapter 12.2 of the *Handbook*.

9:45 – 10:30 am **Defining the Scope of the WPP.....Wendt**
This session will discuss identifying issues of concern, developing preliminary goals, and selecting indicators of environmental conditions as outlined in Chapter 4 of the *Handbook*.

10:30 – 10:50 am **Break**

10:50 – 12:00 pm **Gathering data to assess your watershed.....Dictson/Wagner**
What data do you need? Where do you find the data? How do you get info from TCEQ and other agencies? This session will examine (1) materials from Chapters 5-6 of the *Handbook*; (2) how GIS may be used for watershed analysis, source identification and watershed characterization; and (3) sources of data in Texas and how best to obtain it.

12:00 – 1:00 pm **Lunch**

1:00 – 2:10 pm **Analyzing Data to Characterize Your Watershed.....Davenport**
How do you analyze your data? What tools are available? Is modeling needed? This session will concentrate on materials from Chapters 7 and 8.1-8.2 of the *Handbook* in order to provide the group an understanding of the methods/options available for analyzing watershed data and estimating pollutant loads. Simplistic methods for calculating loads and assessing sources will be presented. The session will also examine refining goals, identifying management objectives, and determining load reductions needed as described in Chapter 9 of the *Handbook*.

- 2:10 – 3:10 pm **Communicating to Diverse Audiences to Achieve Your GoalsMacPherson**
There is no one-size fits all approach. This session will explore various strategies and techniques to translate technical data into useful information.
- 3:10 – 3:30 pm **Break**
- 3:30 – 4:30 pm **Web-Based Tools for Watershed Assessment & Management McDonnell**
Web-based tools available from EPA to support watershed planning will be reviewed.
- 4:30 – 5:15 pm **Revising the Texas Water Quality Standards Hamilton**
What can watershed groups do if they think, after completing data analysis for Element A, that the water quality standards are not appropriate and it might be advisable to do a Use Attainability Analysis? This session will outline the steps that must take place as well as the status of current triennial standards review, especially as related to standard for contact recreation/bacteria.
- 5:15 – 6:00 pm **Expectations for Element A Rush**
The expectations for and an example of Element A will be reviewed and discussed to provide the group an understanding of what is necessary to identify causes and sources of water quality impairments and concerns.
- 6:45 pm **Dinner**
- 8:00 – 9:00 pm
(optional) **Q & A**
This session provides participants the opportunity to discuss issues and questions regarding Element A and watershed characterization with other watershed coordinators, EPA, TCEQ and TSSWCB.

Wednesday, January 14, 2009

Facilitator: Eric Mendelman

- 8:00 – 8:45 am **Breakfast**
- 8:45 – 10:00 am **Overview of Models for Estimating Pollutant Loads & ReductionsHauck**
If modeling is needed, what models are available and how do you select a model? This session will present materials from Chapter 8.3-8.5 of the *Handbook* to give the group an overview of the models available, expectations for what each model can deliver (i.e. what you can and cannot get from them), costs, and factors to consider when selecting models (i.e. timelines and data needs for complex watershed models).
- 10:00 – 10:20 am **Break**
- 10:20 – 10:40 am **Simple Tools for Estimating Loads and Load Reductions..... Kenimer**
This session will demonstrate how to use load duration curves (LDC) to determine needed pollutant load reductions and assess potential sources of the pollutants.

10:40 – 11:00 am	<p>Assignment 1: Perform LDC to Estimate Bacteria Loads/Reductions Flow and bacteria concentration data will be provided to develop an LDC and assess bacteria reductions needed.</p>
11:00 – 12:00 pm	<p>Perspectives on Monitoring, Modeling and Decision Making Harmel An overview of the difficulties of data collection, the uncertainty in collected data, and how to use data in modeling and decision making will be discussed.</p>
12:00 – 1:00 pm	<p>Lunch</p>
1:00 – 1:30 pm	<p>Expectations for Element B Wendt The expectations for Element B will be reviewed and discussed to provide the group with an understanding of the level of detail and effort needed to determine ‘acceptable’ pollutant loadings, and whether or not load reductions are needed to reach acceptable levels.</p>
1:30 – 2:00 pm	<p>Pollutant Fate and Transport Mechanisms Kenimer Knowing the fate and transport mechanisms of the pollutant(s) being addressed will help decision-makers select the most appropriate BMPs for their watershed. This session will discuss the fate and transport mechanisms for major pollutants encountered in the state and what types of practices are most appropriate for addressing them.</p>
2:00 – 3:10 pm	<p>Urban NPS Measures Davenport This session will provide an overview of (1) urban NPS measures, (2) how to develop a preliminary list of urban BMPs to address the issues of concern, (3) finding information on the effectiveness of urban BMPs, (4) estimating BMP implementation costs; and (5) stormwater permitting.</p>
3:10 – 3:30 pm	<p>Break</p>
3:30 – 4:20 pm	<p>Agricultural NPS Measures Wagner Agricultural NPS measures in Texas are typically implemented through the SWCDs, TSSWCB, and NRCS as part of a Water Quality Management Plan or Resource Management System. This session provides an overview of (1) agricultural BMPs and these plans, (2) how to develop a preliminary list of agricultural BMPs to address the issues of concern, (3) finding information on the effectiveness of agricultural BMPs, and (4) estimating BMP implementation costs.</p>
4:20 – 4:40 pm	<p>Assignment 2: Select Agricultural NPS BMPs Using the NRCS Field Office Technical Guide, the class will quickly select BMPs to address a variety of water resource issues and sources.</p>
4:40 – 6:00 pm	<p>Wastewater Treatment Systems Lesikar This session provides an overview of (1) wastewater treatment systems (WWTFs and OSSFs), (2) their effectiveness in removing pollutants, and (3) the costs of implementing and upgrading/improving these systems.</p>
6:45 pm	<p>Dinner</p>

8:00 – 9:00 pm (optional) **Q & A**
This session provides participants the opportunity to discuss issues and questions regarding BMPs and Element B with other watershed coordinators, EPA, TCEQ and TSSWCB.

Thursday, January 15, 2009

Facilitator: Nikki Dictson

8:00 – 8:45 am **Breakfast**

8:45 – 9:45 am **Other Approaches to Managing Pollutant Sources Thornton**
In addition to conventional treatment methods, other options exist for achieving water quality protection and improvement. Among these are wetland development, riparian protection, and urban planning and zoning. This session will discuss these and other approaches and how to incorporate them into WPPs.

9:45 – 10:30 am **Cedar Creek Reservoir Case Study Wolfe**
This session will discuss evaluating and selecting management practices for Cedar Creek Reservoir. Session will also discuss developing decision criteria and summarizing evaluation results for presentation to stakeholders, obtaining feedback from stakeholders, ranking preferences, and selecting the final management strategy.

10:30 – 10:50 am **Break**

10:50 – 11:45 am **Overview and Expectations for Element C Rush**
This session will provide a discussion of expectations for Element C as well as steps to select management practices as described in Chapter 10 of the *Handbook*.

11:45 – 12:00 pm **Texas Watershed Steward Program Dictson**
This session provides an overview of the Texas Watershed Steward Program, a science-based, watershed education designed to help citizens identify and take action to address local water quality issues. Incorporation of this program into WPP efforts empowers stakeholders by providing them with the knowledge to make informed decisions about water resources.

12:00 – 1:00 pm **Lunch**

1:00 – 2:00 pm **Targeting Critical Areas and Scheduling Implementation Davenport**
To achieve the most effective and immediate benefit, BMP implementation must be targeted to the most critical areas. This session discusses the targeting of control measures and the importance of this effort to the ultimate success of the WPP. This session also discusses scheduling implementation efforts (Element F) as described in the final management strategy (Chapter 12.3 of the *Handbook*).

2:00 – 2:45 pm	<p>Developing Interim Milestones & Criteria to Measure Progress Davenport This component of the WPP is where you define in realistic terms how you will determine (1) if you are on track and making progress or not, (2) how/when you evaluate your progress, and (3) what to do if watershed improvements are not on track. This session will discuss developing interim measurable milestones (Element G) and establishing a set of criteria to measure progress (Element H) toward meeting water quality goals as presented in Chapter 12.4-12.5 of the <i>Handbook</i>.</p>
2:45 – 3:05 pm	Break
3:05 – 4:05 pm	<p>Designing & Implementing Effectiveness Monitoring – Element I.....Hauck This session will provide guidance on developing Element I as described in Chapter 12.6 of the <i>Handbook</i>. Selecting an appropriate experimental design that incorporates previous and ongoing monitoring efforts will be discussed.</p>
4:05 – 4:20 pm	<p>Using Volunteer Monitoring For Assessment and Outreach..... Pinchback This session provides an overview of Texas Stream Team (formerly Texas Watch), a statewide network of volunteers, partners, and institutions that promote a healthy and safe environment through education, data collection, and community action. This session will describe how voluntary efforts such as Texas Stream Team may be a valuable component to any WPP.</p>
4:20 – 4:50 pm	<p>Expectations for Element D Rush This session will discuss expectations for Element D which describes the financial and technical assistance needs and identifies the sources/authorities that will be relied on for implementation as described in Chapter 12.7 of the <i>Handbook</i> (Element D). Funding sources in Texas will be discussed along with match requirements and the mechanisms for requesting it.</p>
4:50 – 5:35 pm	<p>Cost – Benefit Analysis in Hickory CreekBanks This session will discuss the cost-benefit analysis completed for Hickory Creek. This detailed financial analysis of implementation strategies is, by many accounts, considered one of the best completed in Texas and will provide a great example for watershed coordinators to utilize to achieve the expectations for Element D.</p>
5:35 – 6:00 pm	<p>Connecting with the Community.....Thornton This session will focus on creating community level commitment. Building on the stakeholder and partnership processes, identified during the Monday afternoon sessions, as well as the volunteer monitoring and outreach programs, identified during the Thursday afternoon sessions, this session provides tips on creative ways to actively engage the community in watershed management. Media opportunities, like "send your legislator down the river," and "friends of the river" programs, will form a focus of this session.</p>
6:45 pm	Dinner

8:00 – 9:00 pm (optional) **Q & A**
This session provides participants the opportunity to discuss issues and questions regarding selecting BMPs, assembling the remaining elements of WPPs, and determining implementation costs with other watershed coordinators, EPA, TCEQ and TSSWCB.

Friday, January 16, 2009

Facilitator: Kevin Wagner

8:00 – 8:45 am **Breakfast**

8:45 – 10:30 am **Financing Watershed Implementation Hemenway**
This session will provide an overview of Plan2Fund, Plan2Fund OPT, and the Directory of Watershed Resources developed by the Environmental Finance Center (EFC) Network for helping implement watershed plans.

10:30 – 10:50 am **Break**

10:50 – 11:15 am **Putting It All Together Dictson**
This session will discuss assembling a WPP, gaining stakeholder approval, submitting the WPP for state and federal review, developing an evaluation framework and devising a method for tracking progress as described in Chapter 12.8-12.11 of the *Handbook*.

11:15 – 12:00 pm **Implementing your WPP..... Thornton**
This session will discuss what to do once the WPP is ready for implementation as described in Chapter 13 of the *Handbook*, including implementation strategies, adaptive management, and what you can do to ensure the long-term sustainability of your WPP. Options such as developing 501(c)(3) organizations will be reviewed.

12:00 – 12:30 pm **Knowledge Assessment/Course Evaluation**
A post-course examination will be distributed and the results compared to the pre-course exam in order to determine course impact and knowledge gained. A course evaluation will also be distributed to gain feedback on how to improve the course.

12:30 pm **Adjourn; Lunch**
Certificates will be distributed as the class turns in their post-course exam and course evaluations.

Appendix B
Texas Watershed Planning Short Course
January 12-16, 2009 Course Registrants

Last Name	First Name	Title	Agency
Anderson	Erin	Environmental Planner	Houston-Galveston Area Council
Armitano	Emily	Assistant Director	River Systems Institute
Banks	Kenneth	Manager, Environmental Quality	City of Denton
Barchers	Kristen	Program Specialist	Texas Commission On Environmental Quality
Beran	Larry	Research Scientist	Texas AgriLIFE Research
Bira	Mike		EPA
Lesikar	Bruce	Professor	Texas AgriLife Extension Service
Burger	Don	Deputy Public Works Director	City of November
Bushnoe	Tara	Natural Resources Coordinator	Upper Guadalupe River Authority
Calvin	Andrea	Water Quality Program Director	Lake Pontchartrain Basin Foundation
Carter	Bill	NPS Team	Texas Commission On Environmental Quality
Chalise	Anju	Project Manager	Texas Commission On Environmental Quality
Core	Chelsea	Environmental Specialist	Lake Pontchartrain Basin Foundation
Flowers	Joan	Sr. Water Quality Scientist	Jacobs Carter Burgess, Inc.
Gudgell	Lee	Water Quality Technician	Guadalupe-Blanco River Authority
Morris	Henry	Program Specialist	Texas Commission On Environmental Quality
Ling	Ward	Project Manager	Texas Commission On Environmental Quality
Long	Donna	QA Officer/Water Quality Specialist	TX State Soil and Water Conservation Board
Rister	M. Edward	Professor	Texas AgriLife Research
Magin	Debbie	Director of Water Quality Services	Guadalupe-Blanco River Authority
Mechell	Justin	Extension Assistant	Texas AgriLife Extension Service
Niemann	Kerry	Project Manager	Texas Commission On Environmental Quality
Pence	Nathan	River Project Manager	City of New Braunfels
Pinchback	Jason	Senior Grant Coordinator	Texas Stream Team - River Systems Institute
Reeves	Rebecca	Assessments and Planning Supervisor	San Antonio River Authority
Snodgress	Maria	Permit Coordinator	TCEQ/TRAVIS
Supercinski	Danielle	Project Manager	Texas Water Resources Institute
Wells	Nina	Environment Specialist/Scientist	NMED/Surface Water Quality Bureau