Monday, October 19, 2015

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 – 1:30 pm  Introduction
This session will provide (1) the opportunity for participants to introduce themselves and the watersheds they are working in, (2) information on facilities and ground rules, and (3) an overview of the course and its purpose and structure.

1:30 – 2:00 pm  Watershed Basics
An introduction to watersheds.

2:00 – 3:00 pm  Working with Stakeholders to Move the Process Forward
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.

3:00 – 3:20 pm  Break

3:20 – 4:05 pm  Partnership Building Experiences in Plum Creek
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.

4:05 – 4:35 pm  Expectations for Element A
The expectations for and an example of Element A will be reviewed and discussed to provide participants an understanding of what is necessary to identify causes and sources of water quality impairments and concerns.

4:35 – 5:30 pm  Gathering data to assess your watershed
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.

6:45 pm  Dinner
Tuesday, October 20, 2015

Facilitator: Nikki Dictson

7:00 – 8:00 am  Breakfast

8:00–8:30 am  Gathering animal density data ................................................................. Wagner

8:30 – 9:00 am  Estimating OSSF density in watersheds ............................................... Gregory

This session will discuss an approach to estimating on-site sewage facility (OSSF) numbers and locations in watersheds.

9:00 – 10:00 am  Analyzing Data to Characterize Your Watershed ......................... Davenport

How do you analyze your data? What tools are available? Is modeling needed? This session will review Chapters 7 and 8.1-8.2 of the Handbook in order to provide participants 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 (Chapter 9 of the Handbook).

10:00 – 10:20 am  Break

10:20 – 10:50 am  Expectations for Element B ................................................................. Hendon

The expectations for Element B will be reviewed and discussed to provide participants 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.

10:50 – 11:20 am  Overview of Models for Estimating Pollutant Loads & Reductions ...... Hauck

If modeling is needed, what models are available and how do you select a model? This session will provide an overview of models available, expectations for what each model can deliver, costs, and factors to consider when selecting models.

11:20–12:00 pm  Introduction to Load Duration Curves .................................................... Gregory

12:00 – 1:00 pm  Lunch

1:00–1:50 pm  Load Duration Curve (LDC) Demonstration ............................................. Gregory

1:50–2:50 pm  Assignment: Estimating Pollutant Loads for Attoyac Bayou Using LDCs

2:50–3:10 pm  Break

3:10 – 3:30 pm  Discuss LDC Assignment

3:30 – 4:00 pm  Overview and Expectations for Element C .............................................. Bira

This session will provide a discussion of expectations for Element C as well as steps to select management practices.

4:00 – 4:50 pm  Agricultural NPS Measures ................................................................. Wagner

Agricultural nonpoint source measures in Texas are typically implemented through SWCDs, TSSWCB, and NRCS. This session discusses (1) agricultural BMPs, (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.
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<th>Time</th>
<th>Session</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>4:50 – 5:30 pm</td>
<td>Texas Riparian and Stream Ecosystems .......................................................... Dictson</td>
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<td>This session will present information on riparian and stream ecosystems and their function and benefits.</td>
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<td>6:45 pm</td>
<td>Dinner</td>
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**Wednesday, October 21, 2015**

**Facilitator: Nikki Dictson**

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<tr>
<th>Time</th>
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<tr>
<td>7:00 – 8:00 am</td>
<td>Breakfast</td>
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<td>8:00 – 8:50 am</td>
<td>Urban NPS Measures .......................................................... Davenport</td>
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<td>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.</td>
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<td>8:50 – 9:35 am</td>
<td>Wastewater Treatment Systems, Issues, and Permits .......................................................... Gregory</td>
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<td>This session briefly reviews wastewater treatment systems (WWTFs and OSSFs), their impacts, and effectiveness in removing pollutants in addition to identifying and addressing wastewater treatment system issues in your watershed.</td>
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<td>9:35 – 10:00 am</td>
<td>Other Common Measures (Wildlife, Pets, etc.) .......................................................... Wagner</td>
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<td>10:00 – 10:20 am</td>
<td>Break</td>
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<td>10:20 – 11:00 am</td>
<td>Targeting Critical Areas .......................................................... Davenport</td>
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<td>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 to the ultimate success of the WPP.</td>
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<td>11:00 – 11:30 pm</td>
<td>Estimating Load Reductions from BMPs .......................................................... Wagner</td>
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<td>11:30 – 12:00 pm</td>
<td>Assignment: Estimating Load Reductions from BMPs</td>
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<td>12:00 – 1:00 pm</td>
<td>Lunch</td>
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<td>1:00 – 1:15 pm</td>
<td>Discuss BMP Load Reduction Assignment</td>
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<td>1:15 – 1:30 pm</td>
<td>Expectations for Element E .......................................................... Bira</td>
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<td>The expectations for and an example of Element E will be reviewed and discussed to provide participants with an understanding of the information/education components of the WPP.</td>
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<td>1:30 – 2:15 pm</td>
<td>Using Outreach to Develop and Implement WPPs .......................................................... Dictson</td>
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<td>Outreach is a powerful tool to get stakeholders involved early in the planning process, promote behavior change in the watershed, and enhance implementation of management strategies in the watershed. Learn tips and tools to conduct effective outreach without breaking the bank.</td>
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2:15 – 2:45 pm  **Overview of Educational Programs** ................................. Gregory
This session provides an overview of the Texas Watershed Steward, Texas Well Owner Network, Lone Star Healthy Streams, and other education programs. Incorporation of these programs into WPP efforts provides stakeholders with the knowledge to make informed decisions about water resources.

2:45 – 3:00 pm  **Watershed Resources and Tools Available**.......................... Dictson
Presentation provides an overview of watershed resources and tools available, kiosks, online modules, web apps, and TWRI’s watershed planning website.

3:00 – 3:20 pm  Break

3:20 – 4:20 pm  **Designing & Implementing Effectiveness Monitoring – Element I**......Hauck
This session will provide guidance on selecting an appropriate experimental design that incorporates previous and ongoing monitoring efforts.

4:20 – 4:30 pm  **Break / Hayride to River for Next Presentation**
*Please note: This is a light field exercise at the Medina River. Appropriate field attire for expected weather is recommended. Participants will divide into 3 groups for the presentations below.*

4:30 – 5:30 pm  **Water Quality Monitoring: Practical Guidelines & Lessons Learned**...........Harmel/Gregory/Tidwell
An overview of the how to use automated samplers, multi-probes, flow meters, and Texas Stream Team volunteer monitoring kits will be provided. *sessions are 20 minutes each*

6:45 pm  Dinner

**Thursday, October 22, 2015, 2013**  Facilitator: Kevin Wagner

7:00 – 8:00 am  Breakfast

8:00 – 8:30 am  **Expectations for Elements F, G, and H**..............................................Bira
The expectations for Element F, G, and H will be reviewed to provide insight on the level of detail and effort needed to schedule implementation, describe interim milestones, and establish criteria to determine if load reductions are achieved.

8:30 – 9:10 am  **Developing Interim Milestones & Criteria to Measure Progress**.....Davenport
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 (Chapter 12.4-12.5 of the *Handbook*). This is the point in the WPP 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.

9:10 – 9:40 am  **Scheduling Management Measure Implementation**............................Hendon

9:40 – 10:00 am  Break

10:00 – 10:45 am  **Assignment: Consistency Review of Elements F, G, and H**

10:45 – 12:00 pm  **Discuss Elements F, G, and H Assignment**
12:00 – 1:00 pm  **Lunch**

1:00 – 1:25 pm  **Expectations for Element D** ................................................................. **Bira**
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 (Chapter 12.7 of the Handbook).

1:25 – 2:10 pm  **Implementation Costs and Sources of Funding** .......................... **Wagner**
This session will discuss sources of funding in Texas for implementation of WPPs along with match requirements and the mechanisms for requesting it.

2:10 – 2:30 pm  **Course Wrap-Up** ............................................................... **Wagner**
This session will discuss assembling a WPP, gaining stakeholder approval, and submitting the WPP for state and federal review.

2:30 – 3:00 pm  **Knowledge Assessment/Course Evaluation**
A post-course examination will be distributed to determine course impact and knowledge gained. A course evaluation will also be distributed to gain feedback on how to improve the course.

3:00 pm  **Adjourn**
Certificates will be distributed as the class turns in their post-course exam and course evaluations.