

Introduction to Modeling Training

Texas Commission on Environmental Quality HQ, Room 201A, Bldg. B • Austin

October 5, 2017

Agenda

Thursday, October 5

9 a.m. to 5 p.m.

- 9:00 a.m. **Introductions, Overview & How Modeling fits into Watershed Planning** ... Lucas Gregory, TWRI
Provide participants with an introduction to watershed modeling and models available for use. Participants will gain an understanding of what model is needed for watershed protection planning, how modeling results fit in to 9 Elements, and the resources needed to take next steps.
- 9:30 a.m. **Models Overview: Purposes and Limitations**R. Srinivasan, TAMU
This presentation will provide a broad overview of purposes and limitations of currently available models including their strengths and weaknesses; validation and calibration. This will include case studies and demonstrations. Handout: EPA Guidelines Decision Matrix
- 10:30 a.m. **Break**
- 10:45 a.m. **Models Overview: Purposes and Limitations** ... continued
- 12:15 p.m. **Lunch** (*catered lunch or bring your own*)
- 1:00 p.m. **Using Simple Tools or Non-Model Tools**..... L. Hauck, TIAER
This presentation will discuss how to model with limited observations as well as minimum data or analysis needed (LDC, estimator, export coefficient, literature values, GIS landuse based)
- 1:45 p.m. **Quality Assurance Project Plans (QAPPs)**Sandra Arismendez, TCEQ
Present on QAPPs from a conceptual standpoint. What needs to be covered; how the data need to be described; references to uncertainty estimation and sensitivity analysis; requirements for gathering existing data.
- 2:45 – 3:00 p.m. **Break**
- 3:00 – 4:00 p.m. **Factors to Consider when Modeling: Time & Money**R. Srinivasan, TAMU
What are the data needs and requirements for models? This presentation will discuss model capabilities; time; money; etc. and the data available for calibrating/validating models.
- 4:00 – 4:45 p.m. **Stakeholder Communications and Modeling**..... Lucas Gregory, TWRI
Provide examples on the process of bringing stakeholders to the table to understand the model, get consensus approval of inputs and presenting modeling results to engage stakeholders in implementation.
- 4:45 – 5:00 p.m. **Wrap Up** Lucas Gregory, TWRI

The Texas Watershed Planning education program is managed by the [Texas Water Resources Institute](#), part of [Texas A&M AgriLife Research](#), [AgriLife Extension](#) and College of Agriculture at [Texas A&M University](#). The training course is supported by funding through a federal Clean Water Act Section 319(h) Nonpoint Source Grant administered by the Texas State Soil and Water Conservation Board from the Environmental Protection Agency.