

Introduction to Modeling Training

Texas Commission on Environmental Quality HQ, Room 201A, Bldg. B • Austin
October 5, 2017
Agenda

Wednesday, July 8

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.
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