

Monitoring and Assessment for Watershed Plans

Methods for Identifying and Characterizing Nonpoint Sources of Pollution



Sponsored by the Indiana Department of Environmental Management, the Conservation Technology Information Center, the U.S. Environmental Protection Agency, and Tetra Tech

**Greensburg Community Learning Center
422 E. Central Ave
Greensburg, Indiana**

November 30th, 2007

Workshop Agenda

- 8:00 – 8:15 **Workshop Registration**
Pick up workshop notebooks and sign in
- 8:15 – 8:30 **Introductions and Workshop Purpose**
Barry Tinning, Tetra Tech
- 8:30 – 9:00 **Watershed Planning and the Nine Key Elements**
Barry Tinning, Tetra Tech
Perspectives on monitoring, assessment, and watershed plans
EPA's Nine Key Elements and monitoring requirements
Links between land use / land management and water quality
- 9:00 – 10:15 **Overview of Basic Monitoring Concepts (8:30 –10:00)**
Don Meals or Steve Dressing, Tetra Tech
Getting the big picture: how to look at your watershed
Purposes of chemical, physical, and biological monitoring
Common monitoring parameters & measurement methods
- 10:15 – 10:30 **Break**
- 10:30 – 11:45 **Assessment and Monitoring in Developing Watershed Plans**
Don Meals or Steve Dressing, Tetra Tech
Accessing existing web-based and other monitoring data
Using RiverWatch data for assessment and planning
Observational approaches – NRCS SVAP, aerial photos, habitat RBPs
Characterizing baseline waterbody conditions
Interpreting and using existing data to identify pollution causes and sources
- 11:45 – 12:00 **Discussion**
Review of topics covered during the morning session

- 12:00 – 1:00 **Lunch**
To Be Provided on Site
- 1:00 – 2:30 **Estimating Pollutant Loads and Identifying Critical Areas**
Don Meals or Steve Dressing, Tetra Tech
Monitoring and pollutant load estimation
Simple spreadsheet models and more complex models
Identifying critical areas for BMP applications
Linking BMP types and performance to pollutant causes and sources
- 2:30 – 2:45 **Break**
- 2:45 – 3:30 **The Logistics of Assessment and Monitoring**
Don Meals or Steve Dressing, Tetra Tech
Data quality objectives and quality assurance project plans
Who does the monitoring? What works? What doesn't? What's the cost?
Presenting monitoring and assessment information via maps and other formats
- 3:30 – 4:15 **Discussion**
IDEM and Tetra Tech Staff
Why do monitoring efforts succeed or fail?
- 4:15 **Workshop Conclusion**
Please fill out your evaluation forms!
Drive safely!