

# Monitoring Watershed Program Effectiveness

Eastern: 2:00 p.m. – 4:00 p.m.

Central: 1:00 p.m. – 3:00 p.m.

Mountain: 12:00 a.m. – 2:00 p.m.

Pacific: 11:00 a.m. – 1:00 p.m.

## A Watershed Academy Webcast:

There is increasing emphasis on evaluating the results of our efforts to control nonpoint source pollution on a watershed basis. Evaluation must be an ongoing part of any watershed management, based on proper design and data collection. Three types of data are needed to evaluate watershed management projects: administrative, social and environmental. Evaluation or effectiveness monitoring is designed to measure the actual impact of management decisions, such as implementation of nutrient management practices (administrative, social) and resulting impacts of nutrient levels (environmental) in the waterbody. Environmental monitoring needs to focus on specific variables, take place in specific locations, and at minimum frequencies to provide a measure of whether and to what extent the water quality problems are being addressed. Instructors will present an overview of watershed monitoring, three watershed effectiveness monitoring designs, and identify issues to be considered when developing effectiveness monitoring programs.

### Instructors:



#### Steven A. Dressing, Senior Scientist, Tetra Tech, Inc.

Steve has 27 years of experience in nonpoint source pollution and watershed-scale monitoring. While at NC State University, he co-authored evaluations of the Rural Clean Water Program and Model Implementation Program, two of the Nation's first watershed programs with monitoring and evaluation components, and participated in local watershed projects across the state. While working at EPA's nonpoint source control program, he created the CWA section 319 national monitoring program, worked on the CZARA section 6217 management measures guidance, and managed the Rural Sources Section. Since moving to Tetra Tech, he has worked on EPA's CAFO rule, various watershed and water quality efforts across the nation, and has become increasingly involved in urban runoff issues

#### Donald W. Meals, Senior Scientist, Tetra Tech, Inc.

Don has 30 years of experience in nonpoint source pollution and watershed management. He has worked throughout the U.S. on nonpoint source issues, focusing on monitoring of watershed-scale response to management changes, especially in the areas of livestock agriculture and phosphorus. In his home State of Vermont, he designed and led several large watershed land treatment-water quality monitoring programs, including projects in the Rural Clean Water Program and the section 319 National Monitoring Program. Don has also conducted research on the water quality effects of innovative manure and livestock management, and developed watershed phosphorus modeling systems, to assess long-term watershed response to the implementation of P management measures.



## The Watershed Academy

The Watershed Academy is a focal point in EPA's Office of Water for providing training and information on implementing watershed approaches. The Academy sponsors live classroom training and online distance learning modules through the Watershed Academy Web at [www.epa.gov/watertrain](http://www.epa.gov/watertrain). For more information, visit [www.epa.gov/watershedacademy](http://www.epa.gov/watershedacademy).

## Registration

**Registration for this Webcast opens April 3, 2008.** You must register in advance to participate in the Webcast. To register, visit [www.clu-in.org/live](http://www.clu-in.org/live). The Webcast will be a Web-based slide presentation with a companion audio portion. There are two options for accessing the audio portion of the Webcast: by phone OR by streaming audio broadcast (not both). When registering, you will be able to select the audio option you prefer to accompany the Web-based slides. If you choose the streaming audio option, you will not be able to participate by telephone. However, you will be able to submit questions online for the presenters to answer during the Webcast. Closed-captioning is available. Upon registration, you will receive complete participation instructions. **Please note that there are a limited number of toll-free phone lines available, so register early to guarantee your spot. Because of the limited number of spaces, we strongly encourage you to reserve a conference room and invite your colleagues and other partners to participate.** If you register after that limit is reached, you will be added to a waiting list. After the Webcast is over, an audio version of the Webcast will be available—visit [www.epa.gov/watershedwebcasts](http://www.epa.gov/watershedwebcasts) for more information.

## Questions?

Visit [www.clu-in.org/live](http://www.clu-in.org/live) or contact Helen Siverling at [helen.siverling@tetrattech-ffx.com](mailto:helen.siverling@tetrattech-ffx.com) or 703-385-6000.

*The materials in this Webcast have been reviewed by EPA staff for technical accuracy. However, the views of the speakers and the speaker's organization are their own and do not necessarily reflect those of EPA. Mention of any commercial enterprise, product, or publication does not mean that EPA endorses them.*