Part Four

Experience Surface Water Quality Monitoring & Safety in the Field!

Goal

To reinforce surface water quality definitions, scientific information, and concepts presented using "hands-on" field training and to increase understanding of the chemical, biological, and physical components of water quality assessment.

Module	Material	Time
13. Safety and Access Issues	Overhead 4-1	35 minutes
14. Streamwalk: Monitoring Stream Surface Waters	Pgs. 150-159	4 hours
15. Monitoring Ponds & Lakes	Pgs. 160-162	2 hours
16. Monitoring Beach/Estuary Surface Waters		2 hours

Part Four is designed to provide short-course participants an overview of the safety issues they need to consider when participating in a monitoring program. It also explores water chemistry and habitat assessment by providing a basic experience in monitoring. This field experience integrates definitions, concepts, and skills presented in the short-course.

Upon completion of Part Four, participants will be able to:

1. Define and identify key personal safety precautions;
2. Define the equipment safety precautions to consider in a monitoring program;
3. Understand how and when to safely access water monitoring sites;
4. Conduct "physical" water habitat (stream, river, pond, lake, estuary, or beach) assessments;
5. Measure and record data about water chemistry in specific segments;
6. Conduct "biological" water habitat assessments;
7. Relate and integrate water quality measurements to each other and how these three monitoring components effect local water quality;
8. Understand why it is important to test for different water quality and quantity components;
9. Apply water monitoring techniques to a lake, pond, or estuary.