

## **Preliminary Agenda:**

### **Day 1: Monday, September 27**

#### **8:00-9:15 Introduction to Training Course & Overview of UIC Program (Steve Platt)**

- Welcome
- Attendee and instructor introductions
- Review course agenda
- Discuss notebooks/handouts
- Logistics
- Why are we here? Discuss UIC program's mandate and the importance of inspections
- Discuss UIC Sections of 40 CFR
- Program Overlap and Coordination (RCRA, UST, etc.)
- Description of UIC Class I, II and III well classifications

## **Preliminary Agenda Continued:**

### **9:15-9:30 Break**

#### **9:30-11:30 Inspection of Class I Injection Wells (Brian Graves)**

- Brief discussion of the types of Class I wells
- Video presentation - "The Deep Well Solution"
- Brief introduction to UIC Land Ban Program and Hazardous Waste
- Construction, siting and operation (including large municipal wells)
- Monitoring requirements
- Site inspections
- Testing requirements

### **11:30-1:00 Lunch**

#### **1:00-3:00 Inspection of Class II Injection Wells (Steve Platt/Dave Rectenwald)**

- Video Presentation - "Injected Water, Protected Water"
- Well types/minimum construction standards
- Operation and monitoring requirements/equipment used
- Pre-inspection preparation/types of inspections
- How to identify violations/what to look for during inspections

### **3:00-3:15 Break**

#### **3:15-5:00 Inspection of Class III Wells (Brian Graves)**

- Well Types (discussion of all types found nationally)
- Well construction
- Operating and monitoring requirements
- Site inspections/what to look for during inspections

## **Day 2: Tuesday, September 28**

### **8:00-10:00 Mechanical Integrity Testing (George Robin)**

- Standard pressure test
- Radioactive tracer survey
- Temperature survey
- Noise log
- Brief overview of other EPA approved alternative MITs
- Other diagnostic tests
  - CBL/VDL
  - Cement evaluation tool

### **10:00-10:15 Break**

### **10:15-12:00 Plugging and Abandonment (Harlan Gerrish)**

- Goal - Isolation of USDWs
- Familiarization with field handbooks
- Volume calculations
- Well preparations
- Plug installation methods
- Plug types and locations
- Remedial operations

### **12:00-1:30 Lunch**

### **1:30-3:30 Inspection Protocols and Techniques (Roger Reinhart)**

- Objectives of inspections
- Preplanning
- Entry interview
- File review
- Record keeping and evidence documentation
- Exit interviews
- Inspection reports

### **3:30-3:45 Break**

### **3:45-5:15 Tools for UIC Enforcement (Roger Reinhart)**

- How a well documented inspection can lead to a good enforcement candidate
- Description of types of enforcement utilized
- Use of Section 1431 authority
- Case preparation
- Follow-up
- Section 1423 override and State/EPA joint enforcement

### **Day 3: Wednesday, September 29**

#### **8:00-10:00 Legal Requirements of UIC Inspectors (Joyce Howell)**

- Facility notification/access
- Presentation of proper credentials/notices
- Proper handling of warrants
- Documentation of evidence
- Handling of confidential information
- Chain of custody (sampling and photographs)
- Administrative hearing process/being a witness
- Providing compliance assistance during inspection

#### **10:00-10:15 Break**

#### **10:15-11:15 Field Safety (Dave Rectenwald)**

- Personal protective equipment
- Considerations for personal safety
- Hazards related to injection well operations
  - Safety during well drilling, treatment, and workover operations
  - Safety during routine inspections
- Weather/habitat related hazards

#### **11:15-12:30 Protection of Underground Sources of Drinking Water (USDWs) (Steve Platt)**

- UIC program mandate
- Definition of USDW and USDW exemptions
- How do injection wells cause USDW contamination?
- Protection of USDWs/Area of Review
- Endangerment of USDWs/How can it occur?

#### **12:30-1:30 Lunch**

#### **1:30-2:45 Introduction to Shallow Injection Well Program/Class V Wells (Mark Nelson)**

- Safe Drinking Water Act
- Preventative Program
- Key Concepts

#### **2:45-3:00 Break**

#### **3:00-5:00 Defining Shallow Injection Well Systems**

- Subsurface emplacement of fluids
- Well types
- Good wells vs. bad wells
- Industrial wells vs. non-industrial wells
- Endangering wells vs. non-endangering wells
- Permit vs. rule authorization
- Program variability (Different methods to achieve the same objective)
- Video - "Troubled Waters" (Automobile Service Station Waste Disposal Wells)

## **Day 4: Thursday, September 30**

### **8:00-9:00 Getting Started**

- What are priority wells types?
- What areas should be tackled first?
- Geographic targeting
- Sources of information

### **9:00-10:00 Beating the Bushes**

- No substitute for field presence
- How to obtain field presence with limited resources
- Compliance inspection/information gathering
- Gathering **all** relevant information/components of and inspection report form
- Mapping/GPS/GIS – Letting the tools and technology work for you

### **10:00-10:15 Break**

### **10:15-11:30 Compliance and Enforcement Followup**

- One size does not fit all
- Conducting a mini risk assessment
- Effective and efficient enforcement tools

### **11:30-1:00 Lunch**

### **1:00-2:30 Table Top Exercises**

- Mock inspection scenarios and role playing

### **2:30-3:30 Well Closure/Well Conversion**

- Guidance notification
- Sealing drain
- Removing dirt, etc.

### **3:30-4:00 Course Wrap-up. Questions? Hand out take home exams.**

A brief overview of the exam will occur. Exams are open book and may be taken home. The exams should be completed and returned by November 1, 2004 to:

**Stephen Platt  
EPA Region 3  
SDWA Branch (3WP32)  
1650 Arch Street  
Philadelphia, PA 19103-2029**

If you should have any questions, please call Steve at 215-814-5464. A training certificate and your graded exam will be sent to you through the mail upon successful completion of the course.