Armor for the IC Achilles Heel

Brownfield's 2005

November 3, 2005

Battle Plan

- Why do we need these tools?
- What are they?
- How does it relate to Brownfield's?

Tactical

- Increasing use of ICs
- ICs have well researched strengths and weaknesses
- Existing and ultimately imperfect tools resulted in unintended consequences
- Need for IC tools designed for objectives

Three-Prong Approach

- Comprehensive IC tracking
  - Data Standard based tracking system
- Pre-emptive approaches for IC information notification
  - One-Call and Terradex
- Well Crafted Proprietary Controls
  - UECA

Making IC Tracking Work

- Track status throughout the life-cycle
- System make ICs more effective
- Coordinate cross-agency responsibilities
- Needs to be robust and flexible

- Solution – IC Tracking Data Standard capable of linking systems

Data Standard Development

- Cross-program/cross-agency workgroup developed standard

- Utilizes XML –
  - EPA and universal standard for exchanging data between parties

- Consists of XML Schema Definition (XSD) –
  - Defines how IC data should be organized
  - Modular design to allow for reuse and extensibility
  - Multiple methods of implementation for cataloging and transferring data

Data Standard Implementation

- Establishes data element relationships to facilitate IC data transfer through:
  - "Mapping" of data elements from existing tracking systems to the standard
  - "Adoption" of exact data elements from the standard within new or enhanced tracking systems

- Information on the standard available through the EDSC website www.envdatastandards.net and www.epa.gov/edr

Status

- Comment period closed in October 2005 for the IC standard
- Making minor changes and it will be final
- Grants are available for States to implement
  - $20 million available in 06
  - States can partner with local agencies as well
  - 4 types of grants
  - Deadline is November 21 for grant submittals
  - http://www.epa.gov/neengprg/grants/index.html

Pre-emptive IC Tools

One-Call

Purpose of One-Call Systems

- Protect Underground Utilities
  - Service disruptions
  - Protect excavator health and safety
  - Protect the environment
    - Typically from releases

Overview of One-Call Systems

- 50 Separate State One-Call Statutes
- 66 One-Call Systems in 50 States
- Purpose of Systems is Directed at Protection of Underground Utilities
- Overwhelming Majority Organized as Nonprofit Corporations
  - Some Operated, Under Contract, by For-Profit Corporations

Purpose of Entering Cleanup Sites Into One-Call Systems

- Include Information concerning residual contamination, cleanup equipment and use restrictions in existing systems
- Notify excavators & future users
- Protect remedies
  - State, Industry, EPA, etc.
- Protect excavators & public from potential exposure

Status

- Pilots
  - Wisconsin
  - Pennsylvania
- Best Practices
  - Working on developing an appropriate process
    - Concerns from excavators
    - Looking for partnerships