



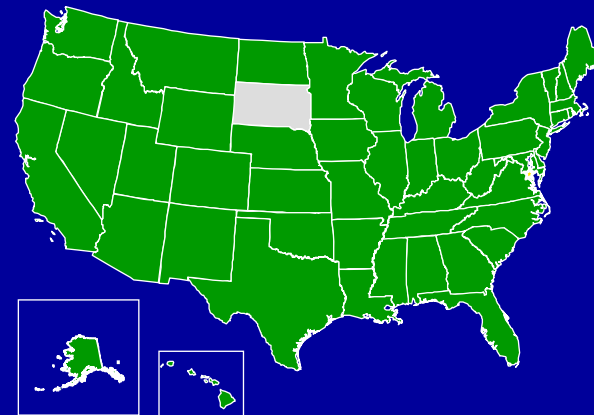
ITRC – Who We Are & What We Do

Background:

Host Organization



- Network
 - State regulators 50 States!!!
 - Federal government
 - Industry
 - Consultants
 - Academia
 - Community stakeholders
- Documents
 - Technical and regulatory guidance documents
 - Technology overviews
 - Case studies
- Training
 - Internet-based
 - Classroom



Federal Partners



DOE



EPA



DOD

Industrial Affiliates Program

Contaminated Sediments Team *by*

***Kim Ward, NJDEP
on behalf of ITRC***



**FRTR Meeting
Arlington, VA**

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Contaminated Sediments Team: Problem Statement

- ∅ Quantification of chemical constituents in sediments is relatively simple; **however**,
 - ∅ No clear understanding of the regulatory endpoint once identified exceedance of regulatory guidelines;
 - ∅ No guidance on how to characterize sediments and bioavailability to develop a remediation strategy; and,
 - ∅ Lack of State, Federal and Industry understanding of what governs chemical exposure and how to measure it.

Contaminated Sediments Team: Project Description

- Develop a Tech-Reg Guidance document about the contaminated sediment investigative processes
 - including the 3-dimensional delineation of source term
 - characterization of exposure term using tools to evaluate bioavailability
 - tool to assess the optimal remedial alternative for the site by understanding what is the exposure threat

Team Membership

- **State:**
 - CA, OR , PA , NH , DE , SC , NY, NJ , WA
 - Other Agencies - British Columbia Ministry of Environment
- **Federal:**
 - Navy, Army, USGS, EPA, Army Corp.

Data Collection

- Case Study Survey:
 - where bioavailability has been measured/calculated and used to develop cleanup levels at contaminated sediment sites.
 - to obtain a basic understanding of :
 - the methods used to quantify sediment contaminant bioavailability,
 - how these methods were used in a RA to develop cleanup levels.
- Evaluate and Report:
 - use of bioavailability within the framework of

Expected Products

1. Bioavailability Overview -

- summarize literature reviews/case studies that assess contaminant bioavailability in site characterization process;
- define terms: bioavailability, biotransformation, bioconcentration and biomagnification; and,
- measurement tools associated with these terms.

2. Tech-Reg Guidance: Characterization of Contaminated Sediments with focus on the Application of Bioavailability

- Investigative process of characterizing potentially contaminated sediments and how bioavailability fits into that process