SESSION 33
Sediment Cap Chemical Isolation

THURSDAY 19 SEPTEMBER
20:00 – 22:00 CEST (Central European Summer Time)

ONLINE

Opening

20:00 Welcome from Interstate Technology Regulatory Council (ITRC) and Remtech Europe

Charles Reyes (ITRC Director), Claudio Sorrentino (DTSC, ITRC), Marco Falconi (ISPRA, Remtech Europe)

Presentations

20:10 Sediment Cap Chemical Isolation training

Wes Thomas, Oregon Department of Environmental Quality; Wardah Azhar, Parsons; Bhawana Sharma, Jacobs; Deirdre Reidy, Anchor QEA; Danny Reible, Texas Tech University; Todd Cridge, Haley & Aldrich; Tamara Sorell, Brown & Caldwell

21:50 Questions and Answers

Claudio Sorrentino (DSTC, ITRC), Marco Falconi (ISPRA, Remtech Europe)

22:00 End of the training

Register yourself in the Google form **https://forms.gle/72utRdxGZG1iJLDm7**

BRIEF DESCRIPTION OF THE TRAINING

The ITRC Sediment Cap Chemical Isolation Guidance provides a framework for the design, construction, and long-term monitoring of the chemical isolation function of sediment caps. The framework consists of an iterative design process informed by site-specific data that balances achievement of chemical design criteria, physical design constraints, constructability and permitting requirements. In addition, the guidance summarizes key construction considerations and presents a recommended approach for monitoring and evaluating long-term chemical isolation performance.

The Sediment Cap Chemical Isolation Training will cover several key elements of the recommended framework, including:

- *A capping overview that summarizes objectives of capping, role of the chemical isolation layer, and generic cap types and compositions.*
- *A discussion of performance objectives and design concepts that includes the selection of chemical isolation performance targets criteria and development of design criteria while considering the site setting and conceptual site model elements.*
- *An overview of chemical isolation layer modeling tools and discussion of their applicability to support chemical isolation design, important model input parameters, and the impact of uncertainty and sensitivity of modeling results.*
- *A summary of chemical isolation construction considerations, including an overview of available construction methods and tolerances and quality assurance and quality control measures.*
- *A discussion of cap performance monitoring and maintenance objectives and approaches that include developing monitoring objectives to assess chemical isolation performance and methods for guiding long-term maintenance decisions.*