

Geology Best Practices: Conceptual Site Model Development for Site Characterization and Remediation

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Background/Objectives. The U.S. Environmental Protection Agency's new Geology Best Practices technical guide (in press) outlines key considerations for characterizing geologic environments to support the development of robust conceptual site models (CSMs).

Approach/Activities. This guide will assist site managers and other practitioners in identifying key geologic elements to inform field data collection activities, support construction of geologically robust CSMs, and ultimately reach successful site remediation outcomes. The document describes collection, analysis, and synthesis of data at appropriate resolution to inform the CSM at the site scale.

Lessons Learned. This session will review best practices included in the technical guide, discussing unconsolidated and consolidated geologic media. We will cover tips and checklists for project managers and other technical staff, ensuring that geologists and related specialists provide critical input when and where needed.