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Bioremediation: Basics, Innovations, and Applications

Live Webinar via Zoom on March 4, 2025 from 10 AM – 2 PM

COURSE AGENDA

The course will begin with an overview of aquifer geochemistry and the various factors that influence microbial processes (Part 1), followed by transport theory as applied to in situ bioremediation project design (Part 2), and the course will conclude with field case studies (Part 3) illustrating the application of bioremediation under both aerobic and anaerobic conditions.

10:00	Part 1: Technology Overview and Microbial Processes
	 What is bioremediation?
	 How does aerobic bacteria function?
	 How does anaerobic bacteria function?
	 Aquifer geochemistry/terminal electron acceptors
11:00	Part 2: Transport Processes and Design
	 Types of bioremediation approaches
	 Types of substrates
	 Injection techniques
	 Design tools
12:00	Break
12:15	Part 3: Case Study Reviews – Aerobic
	 Different application techniques
	 Application in varying site geology
	· Limitations
	· Scalability
	· Success Metrics
1:00	Part 3: Case Study Reviews – Anaerobic
	 Different application techniques
	 Application in varying site geology
	· Limitations
	· Scalability
	Success Metrics
1:45	Questions & Answers
2:00	Wrap-Up and Webinar Adjourns