

ARCHIVED TRAININGS

- [**1,4-Dioxane:** Science, Characterization & Analysis, and Remediation \(11/9/23\)](#)
- [**6PPD & 6PPD-quinone:** Understand and Mitigating the Emerging Global Contaminants \(9/28/23\)](#)
- [**Biofuels:** Release Prevention, Environmental Behavior, and Remediation - \(9/30/14\)](#)
- [**Complex Sites:** Remediation Management of Complex Sites - \(9/22/22\)](#)
- [**Contaminants of Emerging Concern \(CEC\):** Identification Framework - \(5/21/24\)](#)
- [**Contaminated Sediments:** Remedy Selection for Contaminated Sediments - \(1/9/18\)](#)
- [**Contaminated Sediments:** Incorporating Bioavailability Considerations into the Evaluation of Contaminated Sediment Sites - \(4/18/13\)](#)
- [**Direct-Push Well Technology:** An Overview of Direct-push Well Technology for Long-term Groundwater Monitoring - \(12/11/08\)](#)
- [**DNAPL:** Integrated DNAPL Site Characterization - \(1/14/20\)](#)
- [**DNAPL:** Integrated DNAPL Site Strategy - \(9/19/17\)](#)
- [**DNAPL:** In Situ Bioremediation of Chlorinated Ethene - DNAPL Source Zones - \(5/24/2011\)](#)
- [**DNAPL:** Strategies for Monitoring the Performance of DNAPL Source Zone Remedies - \(2/7/06\)](#)
- [**DNAPL:** Surfactant/Cosolvent Flushing of DNAPL Source Zones - \(3/10/05\)](#)
- [**Ecological Use:** Planning and Promoting of Ecological Land Reuse of Remediated Sites - \(5/5/08\)](#)



UPDATED 6/20/2024

THIS LIST REPRESENTS ARCHIVED TRAININGS PROVIDED BY ITRC THROUGH CLU IN. TRAININGS HAVE NOT BEEN AMENDED SINCE PUBLICATION. SOME CONTENT MAY BE OUT OF DATE AND MAY NO LONGER APPLY.

ARCHIVED TRAININGS

[**EDM: Best Practices for Achieving and Maintaining Quality within Environmental Data Management - \(3/19/24\).**](#)

[**EDM: Best Practices for Exchanging Environmental Data - \(4/16/24\).**](#)

[**EDM: Real Life Application of Data Management Planning and Field Data Collection Best Practices - \(4/25/24\).**](#)

[**Enhanced Attenuation of Chlorinated Organics: A Site Management Tool - \(4/28/11\).**](#)

[**Environmental Molecular Diagnostics: New Tools for Better Decisions - \(11/3/16\).**](#)

[**Ethylene Oxide Emissions - \(2/22/24\).**](#)

[**Fractured Rock: Characterization and Remediation of Fractured Rock - \(9/20/22\)**](#)

[**Geospatial Analysis for Optimization at Environmental Sites - \(11/5/19\).**](#)

[**Groundwater Statistics for Environmental Project Managers - \(3/7/19\).**](#)

[**HCBs: Strategies for Preventing and Managing *Benthic* Harmful Cyanobacteria Blooms - \(10/12/23\).**](#)

[**HCBs: Strategies for Preventing and Managing Harmful Cyanobacteria Blooms - \(10/5/23\).**](#)

[**Human Health: Issues and Options in Human Health Risk Assessment - \(2/7/19\).**](#)



THIS LIST REPRESENTS ARCHIVED TRAININGS PROVIDED BY ITRC THROUGH CLU IN. TRAININGS HAVE NOT BEEN AMENDED SINCE PUBLICATION. SOME CONTENT MAY BE OUT OF DATE AND MAY NO LONGER APPLY.

ARCHIVED TRAININGS

[In Situ Bioremediation in Groundwater: Systematic Approach to In Situ Bioremediation in Groundwater: Nitrates, Carbon Tetrachloride & Perchlorate - \(11/19/02\).](#)

[In Situ Chemical Oxidation: What is New with In Situ Chemical Oxidation? - \(9/20/05\).](#)

[In Situ Remediation: Optimizing Injection Strategies and In situ Remediation Performance - \(5/16/24\).](#)

[Institutional Controls: Long-term Contaminant Management Using Institutional Controls - \(4/10/22\).](#)

[Landfills: Evaluating, Optimizing, or Ending Post-Closure Care at Municipal Solid Waste Landfills - \(2/26/09\).](#)

[Landfills: Characterization, Design, Construction and Monitoring of Bioreactor Landfills - \(4/10/08\).](#)

[Landfills: Design, Installation and Monitoring of Alternative Final Landfill Covers - \(4/13/04\).](#)

[LNAPL: Connecting the Science to Managing LNAPL Sites a 3 Part Series: Part 1 - \(2/8/22\).](#)

[LNAPL: Connecting the Science to Managing LNAPL Sites a 3 Part Series: Part 2 - \(2/15/22\).](#)

[LNAPL: Connecting the Science to Managing LNAPL Sites a 3 Part Series: Part 3 - \(3/1/22\).](#)



THIS LIST REPRESENTS ARCHIVED TRAININGS PROVIDED BY ITRC THROUGH CLU IN. TRAININGS HAVE NOT BEEN AMENDED SINCE PUBLICATION. SOME CONTENT MAY BE OUT OF DATE AND MAY NO LONGER APPLY.

ARCHIVED TRAININGS

[**LNAPL:** An Improved Understanding of LNAPL Behavior in the Subsurface - State of Science vs. State of Practice - Part 1 - \(5/4/17\).](#)

[**LNAPL:** Characterization and Recoverability - Improved Analysis - Part 2 - \(5/11/17\).](#)

[**LNAPL:** Evaluating LNAPL Remedial Technologies for Achieving Project Goals - Part 3 \(5/18/17\).](#)

[**Managed Aquifer Recharge** - \(5/30/24\).](#)

[**Mass Flux and Mass Discharge:** Use and Measurement of Mass Flux and Mass Discharge - \(9/28/17\).](#)

[**Metals and Radionuclides:** A Decision Framework for Applying Attenuation Processes to Metals and Radionuclides - \(10/13/11\).](#)

[**Microplastics** - \(2/27/24\).](#)

[**Microplastics** Policies & Research Around the Globe - \(3/22/23\).](#)

[**Mining:** Biochemical Reactors for Treating Mining Influenced Water - \(12/7/15\).](#)

[**Mining** Waste Treatment Technology Selection - \(4/20/14\).](#)

[**Munitions:** Quality Considerations for Multiple Aspects of Munitions Response Sites - \(2/21/19\).](#)

[**Munitions:** Geophysical Classification for Munitions Response - \(9/18/18\).](#)



THIS LIST REPRESENTS ARCHIVED TRAININGS PROVIDED BY ITRC THROUGH CLU IN. TRAININGS HAVE NOT BEEN AMENDED SINCE PUBLICATION. SOME CONTENT MAY BE OUT OF DATE AND MAY NO LONGER APPLY.

ARCHIVED TRAININGS

Munitions: Survey of Munitions Response Technologies - (7/16/09).

Munitions: Site Investigation and Remediation for Munitions Response Projects - (1/30/07).

Munitions: Geophysical Prove-Outs for Munitions Response Projects - (1/25/05).

Munitions: Response Historical Record Review (MRHRR) - (6/22/04).

Natural Attenuation of Chlorinated Solvents in Groundwater: Principles and Practices - (9/23/03).

Natural Attenuation of Chlorinated Solvents in Groundwater: Principles and Practices & Historical Case Analysis of Chlorinated Volatile Organic Compound Plumes - (12/13/00).

Passive Diffusion Bag Samplers for Volatile Organic Compounds in Ground Water - (9/25/03).

Passive Sampling: Protocol for Use of Five Passive Samplers - (9/14/10).

Perchlorate Remediation Technologies - (10/7/10).

Perchlorate: Overview of Issues, Status, and Remedial Options - (1/15/08).

Permeable Reactive Barriers: Technology Update - (10/11/12).

Permeable Reactive Barriers: Lessons Learned and New Directions - (6/15/06).



THIS LIST REPRESENTS ARCHIVED TRAININGS PROVIDED BY ITRC THROUGH CLU IN. TRAININGS HAVE NOT BEEN AMENDED SINCE PUBLICATION. SOME CONTENT MAY BE OUT OF DATE AND MAY NO LONGER APPLY.

ARCHIVED TRAININGS

[Permeable Reactive Barriers: Advanced Techniques on Installation of Iron Based Permeable Reactive Barriers and Non-Iron Based Barrier Treatment Material - \(3/21/02\).](#)

[Permeable Reactive Barriers for Chlorinated Solvent, Inorganic, and Radionuclide Contamination - \(3/19/02\).](#)

[Petroleum Vapor Intrusion: Fundamentals of Screening, Investigation, and Management - \(4/11/19\).](#)

[PFAS Beyond the Basics: Topics on PFAS Biosolids: Sources, Transport, and Management of PFAS Surface Releases - \(5/9/24\).](#)

[PFAS Beyond the Basics: Sampling, Analysis, Surface Water, & Air Occurrence - \(4/18/24\).](#)

[PFAS Beyond the Basics: PFAS Human Health, Ecological Effects and Regulations - \(4/23/24\).](#)

[PFAS Beyond the Basics: PFAS Fate and Transport, Site Characterization and Source ID Training - \(5/23/24\).](#)

[PFAS: 101 Training - \(2/29/24\).](#)

[PFAS Roundtable: Treatment Technologies & Aqueous Film Forming Foam - \(4/6/21\).](#)

[PFAS Roundtable: Physical and Chemical Properties, Site Characterization, Fate and Transport - \(10/6/20\).](#)

[Pump and Treat Optimization - \(9/21/23\).](#)



THIS LIST REPRESENTS ARCHIVED TRAININGS PROVIDED BY ITRC THROUGH CLU IN. TRAININGS HAVE NOT BEEN AMENDED SINCE PUBLICATION. SOME CONTENT MAY BE OUT OF DATE AND MAY NO LONGER APPLY.

ARCHIVED TRAININGS

[Phytotechnologies - \(4/10/11\)](#)

[Risk Management for Site Remediation - \(11/13/14\)](#)

[Radiation Site Cleanup: CERCLA Requirements and Guidance - \(6/5/07\)](#)

[Radiation Risk Assessment: Updates and Tools - \(4/15/07\)](#)

[Radiologically-Contaminated Facilities: Decontamination and Decommissioning of Radiologically-Contaminated Facilities - \(3/4/10\)](#)

[Remediation Process Optimization Advanced Training - \(8/16/07\)](#)

[Remediation Process Optimization: Performance-based Environmental Management - \(1/26/10\)](#)

[Remediation Process Optimization: What is Remediation Process Optimization And How Can It Help Me Identify Opportunities for Enhanced and More Efficient Site Remediation? - \(9/28/04\)](#)

[Risk Assessment: Use of Risk Assessment in Management of Contaminated Sites - \(8/30/11\)](#)

[Risk Assessment and Risk Management: Determination and Application of Risk-Based Values - \(4/8/10\)](#)

[Sediment Cap Chemical Isolation Training - \(4/30/24\)](#)

[Small Arms Firing Ranges: Characterization and Remediation of Soils at Closed Small Arms Firing Ranges - \(6/10/03\)](#)



THIS LIST REPRESENTS ARCHIVED TRAININGS PROVIDED BY ITRC THROUGH CLU IN. TRAININGS HAVE NOT BEEN AMENDED SINCE PUBLICATION. SOME CONTENT MAY BE OUT OF DATE AND MAY NO LONGER APPLY.

ARCHIVED TRAININGS

Small Arms Firings Ranges: [Environmental Management at Operating Outdoor Small Arms Firing Ranges - \(6/28/05\).](#)

Soil [Background & Risk Assessment - \(1/24/23\).](#)

Soil: [Bioavailability of Contaminants in Soil: Considerations for Human Health Risk Assessment - \(5/3/22\).](#)

Soil: [Incremental Sampling Methodology \(ISM-2\) Update Training Modules - \(10/4/22\).](#)

Soil [Sampling and Decision Making Using Incremental Sampling Methodology - Part 1 - \(1/5/17\).](#)

Soil [Sampling and Decision Making Using Incremental Sampling Methodology - Part 2 - \(1/12/17\).](#)

Soil: [Real-Time Measurement of Radionuclides in Soil - \(10/28/08\).](#)

Solidification/Stabilization: [Development of Performance Specifications for Solidification/Stabilization - \(6/25/13\).](#)

Stormwater: Panel Event: [Stormwater Best Management Practices Performance Evaluation - \(9/10/19\).](#)

Sustainability: [Sustainable Resilient Remediation \(SRR\) - \(4/11/23\).](#)

Sustainability: [Green & Sustainable Remediation - \(2/20/14\).](#)

TPH [Risk Evaluation at Petroleum-Contaminated Sites - \(2/21/19\).](#)



THIS LIST REPRESENTS ARCHIVED TRAININGS PROVIDED BY ITRC THROUGH CLU IN. TRAININGS HAVE NOT BEEN AMENDED SINCE PUBLICATION. SOME CONTENT MAY BE OUT OF DATE AND MAY NO LONGER APPLY.

ARCHIVED TRAININGS

[**Triad Approach: A New Paradigm for Environmental Project Management - \(2/10/05\).**](#)

[**Vapor Intrusion Mitigation \(VIM-1\) - A Two Part Series \(Part 1\) - \(3/14/24\).**](#)

[**Vapor Intrusion Mitigation \(VIM-1\) - A Two Part Series \(Part 2\) - \(3/28/24\).**](#)

[**Vapor Intrusion Pathway: A Practical Guideline - \(4/29/08\).**](#)

[**Wetlands: Guidance for Characterization, Design Construction and Monitoring of Mitigation Wetlands - \(10/11/05\).**](#)

[**Wetlands: Constructed Treatment Wetlands - \(1/7/05\).**](#)



THIS LIST REPRESENTS ARCHIVED TRAININGS PROVIDED BY ITRC THROUGH CLU IN. TRAININGS HAVE NOT BEEN AMENDED SINCE PUBLICATION. SOME CONTENT MAY BE OUT OF DATE AND MAY NO LONGER APPLY.