2009 ITRC Technical Project Teams

Register at www.itrcweb.org

Attenuation Processes for Metals and Radionuclides

Leads: Dib Goswami, WA and Carl Spreng, CO

Project: Develop a framework to facilitate implementation of the new EPA guidance for monitored natural attenuation of metals and radionuclides. This framework will provide a consistent basis for states, stakeholders, federal agencies, and site owners to evaluate and implement attenuation-based remedies.

Contaminated Sediments

Leads: John Cargill, DE and Kim McEvoy, NJ

Project: Develop a Technical Regulatory Guidance document that describes the contaminated sediment investigative processes including the three-dimensional delineation of source term and characterization of exposure term using tools to evaluate bioavailability.

Environmental Impacts of Ethanol and Bio-Based Fuels ***New for 2009***

Lead: Bill Burns, FL and Bill Gidley, NE

Project: Develop an information resource that addresses techniques and technologies that can be used in reducing the consumption of environmental resources for production, preventing, detecting, and characterizing releases to environmental media, evaluating remedial action options, and identifying best management practices for the distribution and storage of these fuels.

Green & Sustainable Remediation ***New for 2009***

Lead: Tom O'Neill, NJ

Project: Produce a Technology Overview document explaining what Green/Sustainable remediation is and how GSR is beginning to be implemented in new state and federal programs. Survey ITRC states, partners, and stakeholders (internal and external) on the interest in and focus of a potential Technical Regulatory guidance document.

Incremental Sampling Methodology ***New for 2009***

Leads: Mark Malinowski, CA and Ligia Mora-Applegate, FL

Project: Develop guidance for the appropriate implementation of Multi-Increment Sampling to a wide range of sampling objectives, analytes, and circumstances to improve data quality and reduce characterization costs at sites where soil data are collected.

In Situ Stabilization and Solidification ***New for 2009***

Lead: Wilmer Reyes, DE

Project: Develop a recommended protocol for conducting treatability assessments, based on the latest research and experience, including leachability test methodologies and using leaching test results to determine impacts/improvements to groundwater. Develop and obtain multi-state consensus on a technical and regulatory guidance document, including technical performance measures and long term monitoring to assess ISS technology effectiveness for organic and inorganic contaminants, including free and residual product.

Integrated DNAPL Source Strategy ***New for 2009***

Lead: Naji Akladiss, ME

Project: Develop an "Integrated DNAPL Source Strategy (IDSS)" to address the technical and regulatory issues involved in combined technology DNAPL source zone remediation designs. *[more-->]*

The IDSS will assist decision makers in determining the appropriate site conditions that are conducive to source zone clean-up, and which technologies or combinations of technologies will deplete the DNAPL and remediate any plume according to known site conditions. The guidance will also help in establishing realistic expectations for those cleanups, and in measuring progress towards achieving those expectations.

LNAPLs (Light Nonaqueous-Phase Liquids)

Leads: Lily Darkau, WY and Pam Trowbridge, PA

Project: Develop a technical and regulatory guidance document based on an assessment of LNAPLs remedial technology application cases. Provide a technical criteria framework to evaluate the effectiveness of LNAPLs remediation technologies ranging from source-zone natural attenuation to containment to aggressive removal. The framework will better equip stakeholders to evaluate technologies in the context of risk and non-risk based cleanup objectives and differing land use goals.

Mining Waste

Leads: Cherri Baysinger, MO and Paul Eger, MN

Project: Use case studies and literature searches to provide data and evaluate technologies for treating, stabilizing, reclaiming, and reusing solid mine waste and mining-impacted water and evaluate their performance. Develop a guidance document that will assist the user to properly evaluate and apply each technology. Identify regulatory barriers or impediments and recommend specific flexibility when there is a net environmental benefit.

Phytotechnologies

Lead: Kris Geller, NJ

Project: Review and update the Phytotechnology Technical and Regulatory Guidance Document and incorporate an on-line decision tool into the updated guidance. Phytotechnologies use plants to remediate or contain contaminants in soil, groundwater, surface water, or sediments.

Permeable Reactive Barriers: Technology Update ***New for 2009***

Leads: John Doyon, NJ and Kimberly Wilson, SC

Project: Although Biowalls are a variety of permeable reactive barriers (PRBs), previous guidance published on the subject of PRBs has largely ignored Biowall technology. A technology guidance document specific to biowalls technology will help promote techniques to regulators and those in the environmental field.

Remediation Risk Management

Lead: Ning-Wu Chang, CA

Project: Develop document(s) for recognizing the risks inherent in remediation projects and setting realistic performance goals and expectations. These documents will include evaluation of all risks associated with remediation at a site - from the completion of site investigations and contaminant plume assessments and starting of remedy selection process all the way up to conclusion of all remediation activities and closure of the release.

Unexploded Ordnance – Wide Area Assessment ***New for 2009***

Leads: William Harmon, MI and Guy Warren, AK

Project: Develop a technology overview document using a Frequently Asked Questions format on the potential use of Wide Area Assessment to explain the technology and its application at munitions response sites. The document will be developed jointly with the Strategic Environmental Research and Development Program (SERDP)/Environmental Security Technology Certification Program (ESTCP).