



## ITRC Guidance Information Product Announcement (December 2010)

### ***A Decision Framework for Applying Monitored Natural Attenuation to Metals and Radionuclides in Groundwater***

New document from ITRC helps regulators and consultants understand how to appropriately apply monitored natural attenuation (MNA) to metals and radionuclides in accordance with the U.S. Environmental Protection Agency's (EPA) three-volume MNA for inorganic contaminants in groundwater document and new policy directive.



### Background

Because technical guidance specifically addressing the use of attenuation-based remedies for metals and radionuclides has only recently been available, the application of attenuation remedies for metals and radionuclides has been inconsistent. To facilitate the acceptance of attenuation-based remedies for metals and radionuclides, ITRC has developed a technical and regulatory guidance document that builds on the EPA's three-volume MNA for inorganic contaminants in groundwater document and new policy directive.

### Benefits

- ▶ Promotes agency consistency when developing, assessing, or critiquing an MNA proposal.
- ▶ Provides recommendations for evaluating attenuation-based remedies in a consistent and technically defensible manner.
- ▶ Presents a decision framework to assist users in determining whether relying on attenuation processes is feasible and can lead to successful implementation.

### Actions

Here's what you can do to bring ITRC benefits to your state:

- ▶ Promote use of guidance and FREE Internet-based training with your colleagues as well as with site owners and their consultants
- ▶ Consider using the guidance as a tool to update existing state MNA guidance
- ▶ Report to ITRC any successes or concerns related to this guidance

### Resources

#### Documents

- ▶ ITRC, *Technical and Regulatory Guidance Document on Enhanced Attenuation: Chlorinated Organics*, EACO-1, 2008.
- ▶ ITRC, *Technical and Regulatory Guidance Document on Use and Measurement of Mass Flux and Mass Discharge*, MASSFLUX-1, 2010.
- ▶ EPA, *Monitored Natural Attenuation of Inorganic Contaminants in Ground Water*, 3 vols., 2007–2010, <http://www.epa.gov/ada/gw/mna.html>.

## Links

- ▶ Go to [www.itrcweb.org](http://www.itrcweb.org) and click on “Guidance Documents” to order or download documents.
- ▶ For more information and useful links about MNA, go to [http://www.itrcweb.org/teampublic\\_APMR.asp](http://www.itrcweb.org/teampublic_APMR.asp).

## Training

ITRC has developed a FREE Internet-based training course for this product. The training provides:

- ▶ An introduction to key attenuation processes for metals and radionuclides
- ▶ Information on incorporating MNA into remedial alternatives for metals and radionuclides
- ▶ An overview of the decision framework on MNA for metals and radionuclides in groundwater within the larger evaluation framework of a contaminated site

ITRC’s Internet-based training courses assist potential users of the ITRC guidance document to understand when and how to use the document and the associated technology and/or approach. Participants can take the training “live” from the comfort of their own office or access archives of past classes at their convenience. Through ITRC’s partnership with EPA’s Technology Innovation Program, ITRC delivers training courses via the Internet to reach a geographically dispersed audience of regulators, consultants, and other members of the environmental community. The training sessions last approximately two hours, cover technical and regulatory information specific to environmental technologies and innovative approaches, and are supported by consensus-based ITRC guidance documents.

**Cost:** Sponsored by ITRC and EPA with no cost for the participant

**Dates:**

- March 10, 2011 (Thursday) 11:00 a.m.–1:15 p.m. EASTERN TIME
- July 12, 2011 (Tuesday) 2:00 p.m.–4:15 p.m. EASTERN TIME
- October 20, 2011 (Thursday) 11:00 a.m.–1:15 p.m. EASTERN TIME

**Registration:** <http://clu-in.org/studio/seminar.cfm> (opens 4–6 weeks prior to class date)

**Associated guidance documents:** Available from [www.itrcweb.org](http://www.itrcweb.org)

If you have questions after completing the online registration, call (402) 201-2419 or send an e-mail to [training@itrcweb.org](mailto:training@itrcweb.org).

### Contacts

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## Regulatory Acceptance for New Solutions

Documents, free Internet-based training, contact information

[www.itrcweb.org](http://www.itrcweb.org)