



U.S. EPA's Vapor Intrusion Database Project

An overview for the Federal Remediation
Technologies Roundtable

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Vapor Intrusion Database Project

- Generic attenuation values have been used for almost ten years to screen sample concentrations in sub-surface media
 - Identified for residential buildings only, based upon a limited data set (paired observations) from only a few sites
 - Incorporated for Tier 2 screening in EPA's draft vapor intrusion assessment guidance (2002)



Vapor Intrusion Database Project

- Since 2002, EPA has:
 - Collected additional vapor intrusion data, primarily for residential sites
 - Designed, developed, and managed a data base to store and analyzed these data
 - Reported preliminary findings (July 2009)
- Data collection and evaluation continue.



Vapor Intrusion Database Project

- In early 2010, EPA formed a work-group to expand data base for other building types.
 - Air Force (Samual Brock, Erik Dettenmaier, Kyle Gorder)
 - Army (Doris Anders, Malcolm Garg)
 - Navy (Donna Caldwell, Amy Hawkins, Michael Helbling, Mark Kougl, Tara Myers)
 - SERDP/ESTCP (Andrea Leeson, Marvin Unger)



Vapor Intrusion Database Project

- FRTR work-group progress
 - Identified and prioritized types of data needs
 - Developed and distributed a survey form to identify sites with suitable data
 - Collating site-specific data currently
- EPA-OSRTI engaged a contractor to assist with data compilation/management



Vapor Intrusion Database Project

- Why be involved?
 - Contribute to EPA's final guidance for assessing vapor intrusion
 - Document (and verify) that commercial, industrial, and other non-residential buildings generally have lower attenuation values than residential buildings, which would support the use of higher (allowable) levels in soil gas in such land use settings.



Vapor Intrusion Database Project

- What you can do (please?):
 - Encourage and support data submissions to EPA-OSRTI by remedial project managers.
- Data will be used by EPA solely for scientific purposes in support of refining guidance.
- We prefer data that have already been submitted to applicable regulatory agencies.



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