

Subgroup: Vapor Intrusion

Remediation and Redevelopment Program



Meeting Notes

Remediation and Redevelopment External Advisory Group – Vapor Intrusion

Thursday, June 5, 2025 | 10:30 a.m. to noon

By Zoom

Attendees

- Lanette Altenbach, LLA LLC
- Alex Amundson, WEC Energy Group
- Nick Anderson
- Todd Boehne, Alm Holding
- Chris Bonniwell, Tetrattech
- Jennifer Borski, DNR
- Kate Brunner, SCS Engineers
- Ed Buc, Chair, Terracon
- Renata Bitoy Bunker, Lean Design Werks
- Lynelle Caine, Stantec
- Michelle Castile
- Dan Cervin, MN Pollution Control
- Roxanne Chronert, DNR
- Michelle Cook, City of Racine
- Frank Dombrowski, WEC Energy Group
- Evan Dujardin, Westwood PS
- Alia Enright, TRC Companies
- Coreen Fallat, DNR
- Judy Fassbender, DNR
- Don Gallo, Gallo Law
- Megan Hamilton, Arcadis
- Amanda Haugen, Burns MCD
- David Henderson, AECOM
- Danika Hill-Paulus, MKE Fresh Air Collective
- Rex Key, WEC Energy Group
- Nathan Kloczko, DHS
- Nichole LaPlant, Robert E Lee, Inc.
- Jason Lowery, DNR
- Chris Lutzen, AECOM
- Jane Malone, IEA
- Kurt McClung, Endpoint Solutions
- Steve Meer, The Sigma Group
- Jessica Moy, Edge Consultants
- John Osborne, GZA
- Katie Phillips, Ramboll
- Michael Prager, DNR
- Tammy Rabideau, Masco Corp.
- Chad Rogness, Lifetime Radon Solutions
- Craig Sadownikow, Team ACS
- Toni Schoen, The Sigma Group
- Tory Schultz, AECOM
- Christine Sieger, DNR
- Katie Simonsen, DNR
- Paul Sklar, AECOM
- Timm Speerschneier, DeWitt, LLP
- Tim Stohner, KPRG Inc
- Shar Te Beest, DOT
- Jodie Thistle, DNR
- Lucas Totzke, City of Milwaukee
- Austin Ulik, One Atlas
- Marie Venne, TRC Companies
- Jim Walden, DNR
- Matthew Weiss, Sand County Environmental
- Heidi Woelfel, GZA GeoEnvironmental, Inc.
- Tim Wood, AECOM
- Brian Youngwirth, CLSE Pro

DNR Updates and Information

- Shared opportunity to comment on the updated Vapor Intrusion Guidance (RR-800) and process to receive notifications of future public comment opportunities.
- Shared information about free best practices documents available from the Association of Vapor Intrusion Professionals (AVIP).
- Provided an update on efforts by the Interstate Technology Regulatory County (ITRC) to update and combine vapor intrusion guidance.
- Highlighted collaborative relationship between the DNR and EAG.
- Shared information about upcoming full EAG meetings and training opportunities.

Discussion: Establishment of a Mitigation Contractor Certification Program

The subgroup chair provided an overview of the revisions to the draft white paper related to considerations for a potential program to certify mitigation contractors in Wisconsin.

Assignments

Final edits to the paper by the ad hoc group for consideration at the July 2025 meeting of the full EAG.

Vapor Intrusion Subgroup RR External Advisory Group

June 5, 2025

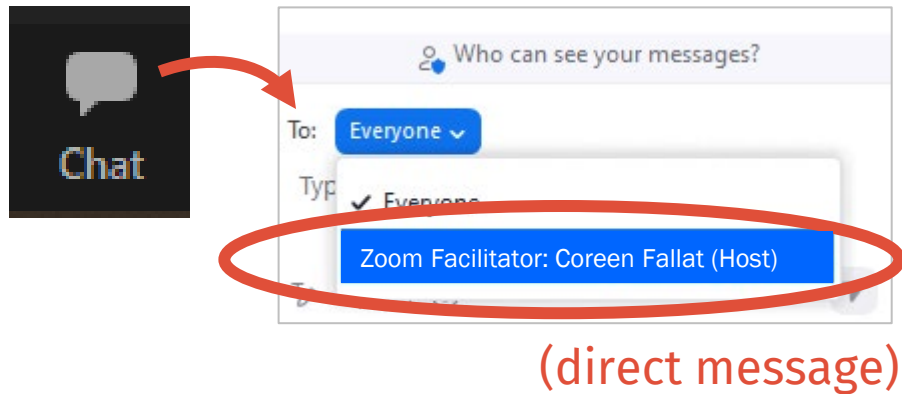


Zoom Meeting Logistics

All attendees are muted

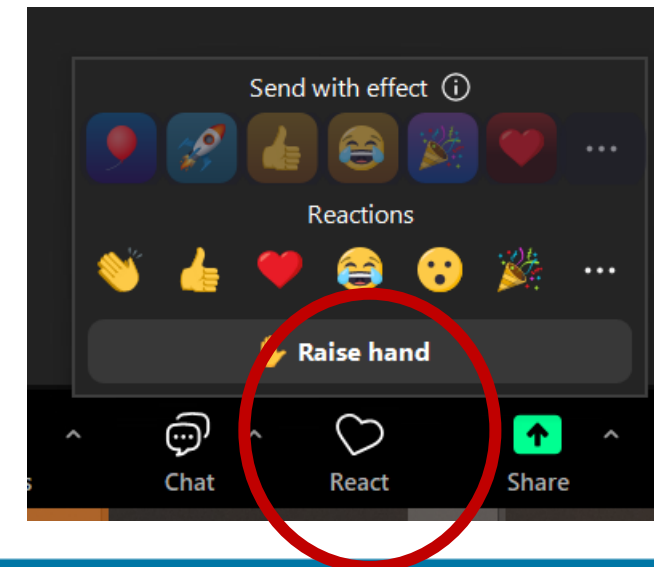
Written Comments/Questions

- Use **chat** and select Zoom facilitator in the “To” dropdown
- Remarks will be read out loud by facilitator



Verbal Comments/Questions

- **Select React to Raise hand** to request a turn to talk (* 9 on phone)
- Please unmute when your name is called (*6 on phone)



Introductions



Agenda



- DNR Updates
- Discussion: Mitigation Certification Issue Paper
- Assignments
- Upcoming Meetings



DNR Updates

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

Public Input Opportunity

Vapor Intrusion Guidance (RR-800)



Deadline: July 27, 2025



Submit comments: dnrrrguidance@wisconsin.gov

Public notices webpage:

<https://dnr.wisconsin.gov/topic/brownfields/publicnotices.html>

Included Updates:

Understanding and Identifying Vapor Intrusion

- Overview of variables affecting vapor intrusion
- Vapor intrusion conceptual site model
- Recommendations on vapor investigations
- Soil screening distance from chlorinated solvents
- Groundwater screening criteria for various contaminants
- Information about assessing parking garages and elevators
- Sampling options and techniques (passive, evacuated canister sub-slab vapor)
- History of dry cleaners and other sources of chlorinated solvents

Tools and Examples

- Building decision matrix
- Visually descriptive figures and flowcharts
- Example vapor investigation status map

Addressing Vapor Intrusion

- Recommendations for mitigating vapor
- Use of active notification, including telemetry
- Information about assigning vapor continuing obligations at interim action

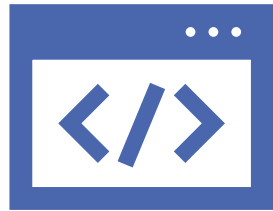
More Public Input Opportunities

Coming Soon!

Publications

- **Updated** RR-997 Guidance: Implementation of Wis. Admin. Code chs. NR 749 & NR 750 Fees
- **Updated** RR-753 Ready For Reuse Guidance
- **Updated** RR-0158 Ready for Reuse Model Municipal Resolution
- **Updated** RR-0159 Ready for Reuse Analysis of Cleanup Alternatives
- **Updated** RR-0160 Ready for Reuse Model Community Relations Plan
- **Updated** RR-0161 Ready for Reuse Public Notice Template
- **New** RR-0152 Guidance: Soil Cleanup Standards
- **New** RR-0156 Natural Attenuation Guidance

Public Input Opportunities



Public notices webpage:

<https://dnr.wisconsin.gov/topic/brownfields/publicnotices.html>



Sign up to receive notifications:

https://public.govdelivery.com/accounts/WIDNR/subscriber/new?topic_id=WIDNR_567



**Enhancements
On the Way!**

RR Database Tracking System (BRRTS)

**Launch:
June 10th**

Updates from Association of Vapor Intrusion Professionals (AVIP) and Interstate Technology Regulatory Council (ITRC)



Industry Best Practices
Documents Available

<https://www.vi-pro.org/>



Vapor Intrusion
Guidance Document
Effort

<https://itrcweb.org>

Industry Best Practice Documents Available from AVIP

Available without Membership

- AVIP Conceptual Site Model
- AVIP Active Fact Sheet
- AVIP Passive Fact Sheet
- AVIP Mitigation Design

Association of Voluntary
CSM Best Practice -



Conceptual Site Model (CSM) Checklist

Page ___ of ___

Project Name: _____

Project Address: _____

CSM Date: _____

Prepared By: _____

Revision Number: _____

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Appendices

- | | |
|---|---------------------------------|
| A | Conceptual Site Model Checklist |
| B | Example CSM Diagrams |

Characteristics (Building Scope)

Current/Present Use: _____

Other (Illegal Uses): _____

Property Use: _____

Characteristics

One Story: ☐

Multi-Story: ☐

Stand Alone: ☐

Complex: ☐

Other: _____

Approximate Age: _____

Distance to Road: _____

Condition: _____

Details: _____

Basement: ☐

Crawlspace: ☐

Earthen: ☐

Other: _____

Other: _____

Other: _____

Other: _____

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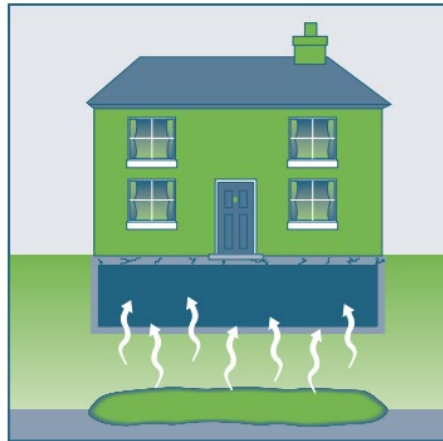
Interstate Technology Regulatory Council

ITRC is working to combine and update three documents into one web-based guidance document.



Technical and Regulatory Guidance

Vapor Intrusion Pathway: A Practical Guideline



January 2007

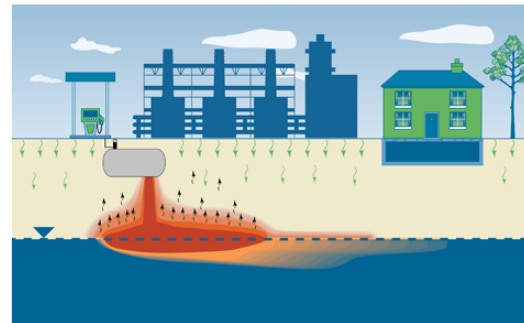
Prepared by
The Interstate Technology & Regulatory Council
Vapor Intrusion Team



Guidance Document

Petroleum Vapor Intrusion

Fundamentals of Screening, Investigation, and Management



October 2014

Prepared by
The Interstate Technology & Regulatory Council
Petroleum Vapor Intrusion Team



Technical/Regulatory Guidance

Technical Resources for Vapor Mitigation Training

IMPORTANT: This guidance document was developed for use on the web. Please review the following disclaimers before using the PDF version of the web-based document:

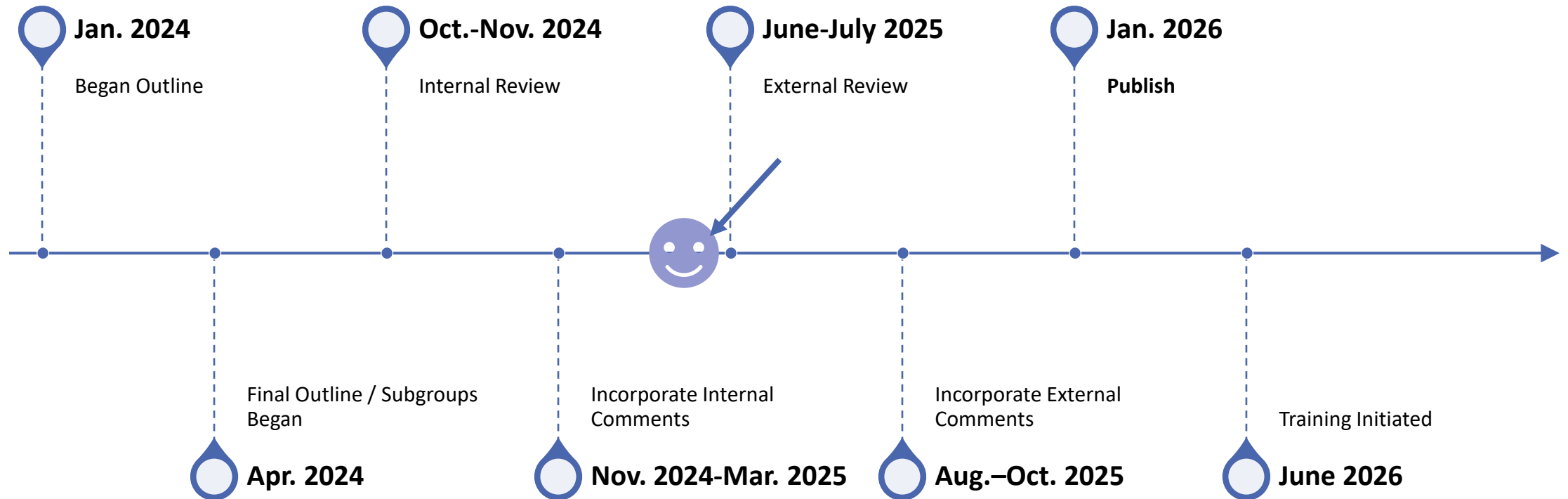
- Web-based formatting may not be optimal when using this document as a PDF.
- Hyperlinks will send users to the web-based document.
- Glossary terms are not hyperlinked.
- The majority of the references are not hyperlinked.



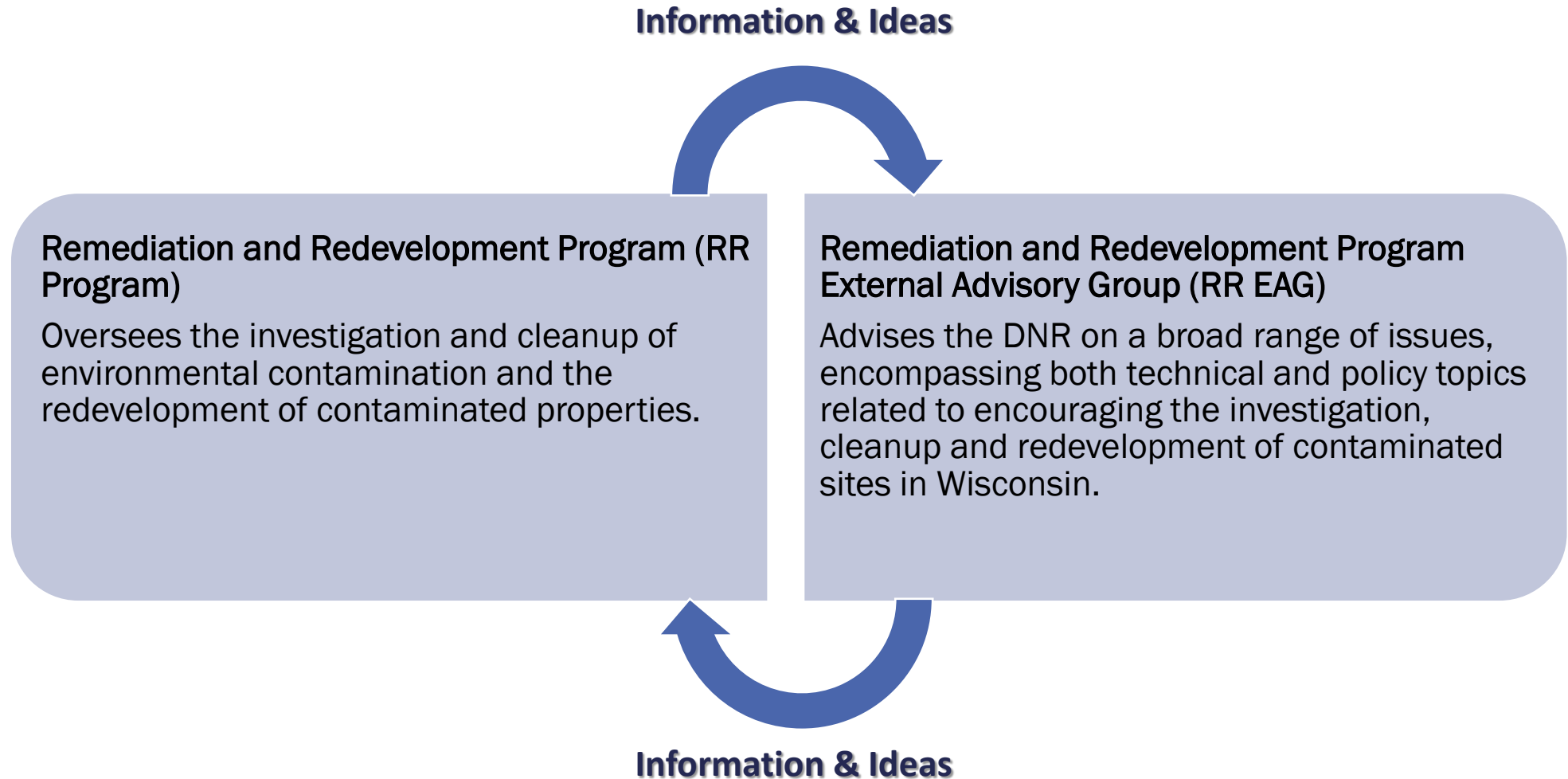
December 2020
Prepared by

The Interstate Technology & Regulatory Council (ITRC)
Vapor Intrusion Mitigation Training Team

ITRC Vapor Intrusion Document Timeline



Collaboration between the DNR the EAG



Mitigation Certification Issue Paper

Ed Buc, Terracon

Remediation and Redevelopment External Advisory Group

ISSUE PAPER

ESTABLISHMENT OF A MITIGATION CONTRACTOR CERTIFICATION PROGRAM

Vapor Intrusion Subgroup

Contributors: Ed Buc (Terracon), Danika Hill-Paulus (MKE FreshAir Collective), Robert Hoverman (23point5, LLC), Jane Malone (Indoor Environments Assoc), Steve Meer (The Sigma Group), Chad Rogness (Lifetime Radon Solutions), Chris Valcheff (True North Consultants), Heidi Woelfel (GZA GeoEnvironmental, Inc.), Nathan Kloczko (DHS), Amanda Koch (DHS)

This proposal and recommendations were developed by the Remediation and Redevelopment External Advisory Group and members of the public, and do not necessarily represent the opinions or the position of the Wisconsin Department of Natural Resources or other state agencies.

TYPE OF RECOMMENDATION - LEGISLATIVE

This issue paper is to document the business need for mitigation contractor certification in Wisconsin and related issues for consideration. Discussions have been led by an ad hoc committee consisting of volunteers from the DNR's Remediation and Redevelopment External Advisory Group's (RR EAG) Vapor Intrusion Subgroup. A mitigation certification program is being considered to address issues with contractor qualifications and accountability identified in Wisconsin with both radon and vapor intrusion mitigation systems. The National Radon Proficiency Program (NRPP), which is administered by the Indoor Environments Association (IEA), also known as AARST, is working to develop and finalize credentials for vapor intrusion

Issue: Vapor Intrusion and Radon Mitigation



Ad hoc committee created to examine the need for a certification program for all mitigation contractors



Reviewed program under development by National Radon Proficiency Program (NRPP)



Issue paper captures the ad hoc committee's work to date

Issue Paper: Reason and Status



Type of Recommendation

Document the need and issues related to certification in Wisconsin
Address contractor qualifications and accountability for radon and vapor intrusion mitigation systems



Current Effort

National credential for vapor intrusion mitigation in development by NRPP, administered by Indoor Environments Association (aka AARST)

Background

- Need for a Mitigation Certification Program in Wisconsin
- State Agency Roles and Interrelationships
- Current Status and Challenges of Mitigation
- Health Rationale for Certification
- NRPP Certification Development
- Preventing Conflicts with Existing Regulations
- Applicability of Certifications to Subcontractors
- Additional Considerations

New Since May 2025 EAG Meeting

Reformatted

Clarified legislative action needed to address issue

Added ANSI/AARST New Construction standard (CC-1000-2018 Rev. 5/23)

Removed Indoor Environments Association organizational chart

Added information from Housing & Urban Development (HUD) regarding radioactive and hazardous substances

Moved related professionals from “Proposal” to “Resources Needed”

Proposal

Continued evaluation of a
certification program for
mitigation in Wisconsin

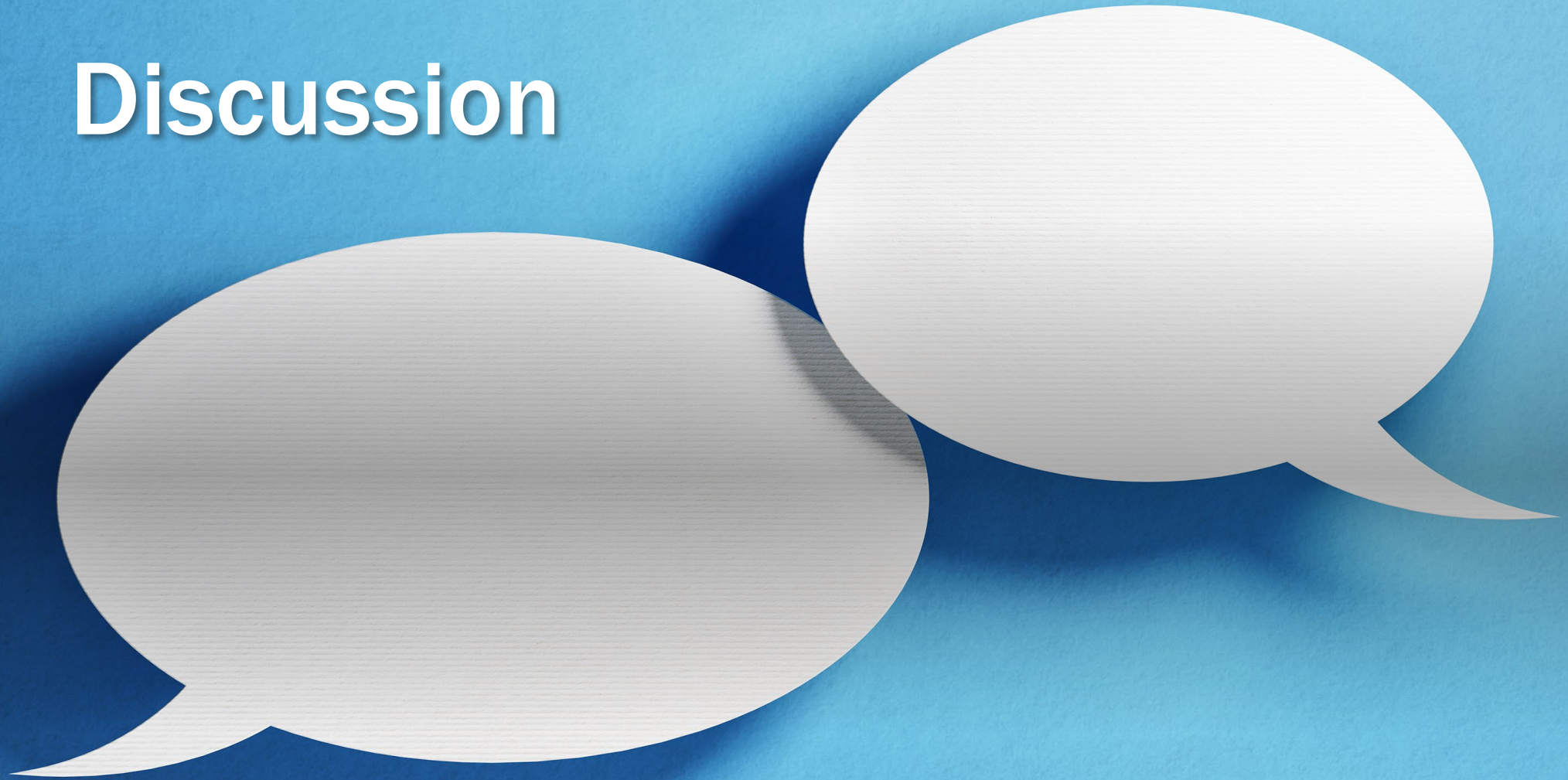
Continue discussion
following NRPP's
completion of credential for
vapor intrusion mitigation



Next Steps

- July 17, 2025 – Present issue paper to EAG for approval
- Aug./Sept, 2025 – EAG VI Subgroup meeting to initiate work on next topic
- 2026/2027 – Re-convene ad hoc committee following creation of national VI mitigation credential

Discussion



Assignments



Upcoming Meetings: Back to Basics Training and EAG Meetings

July 17, 2025

Investigation,
Sampling
and Lab Data

October 29,
2025

Planning for
Remediation
and
Continuing
Obligations

January 23,
2026

Applying for
Closure and
Maintaining
Continuing
Obligations

April 21, 2026

Notifying
Affected
Parties and
the Public



Brownfields 2025

Sustainable Communities Start Here

AUGUST 5–8, 2025 | CHICAGO, ILLINOIS

- Registration now open
- Great opportunity for professional development and networking
- DNR is helping to plan and will be speaking on panels
- Sign-up for exhibit space and to be a sponsor
- Help get the word out to your partner organizations



CONNECT WITH US

RR Program

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@WI_DNR



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"WILD WISCONSIN:
OFF THE RECORD"