

SUBGROUP: Vapor Intrusion

Remediation and Redevelopment External Advisory Group



Meeting Notes

Remediation and Redevelopment External Advisory Group – Vapor Intrusion

Thursday, Sept. 7, 2023 | 2-3:30 p.m.

State Natural Resources Building (GEF 2) | Room G-27 | 101 S. Webster St. Madison, WI

Action items/assignments for next meeting

- **ALL:** Seeking external chairperson for the Vapor Intrusion (VI) subgroup; the VI chair will be supported by knowledgeable DNR staff. Email Jennifer.Borski@wisconsin.gov to express interest or for more information.
- **ALL:** Please share ideas for resources that would be helpful to include on a vapor intrusion for local governments website with Jody.Irland@wisconsin.gov.
- **DNR:** Use feedback to construct a draft workplan for the VI subgroup.
- **ALL:** Subscribe to the [RR EAG listserv](#) to receive information about future meeting dates, agendas, resources, and other EAG-relevant items. Zoom attendees are automatically added to the listserv; if you would like to opt out, please email Jody.Irland@wisconsin.gov.

Introductions

In-person attendees

- Jennifer Borski, Interim Subgroup Chairperson, DNR
- Chad Rogness, Lifetime Radon Solutions
- Chris Bonniwell, Tetra Tech
- Heidi Woelfel, GZA GeoEnvironmental, Inc.
- Nathan Kloczko, DHS
- Curtis Hedman, DHS
- Rob Hoverman, DNR
- Jodie Thistle, DNR
- Joshua Davenport, KPRG and Associates, Inc.
- Jody Irland, DNR
- Michael Prager, DNR

Zoom attendees

- Jane Pfeiffer, DNR
- Chris Valcheff, Truth North Consultants
- Corey Pagels, Shannon & Wilson, Inc.
- Stephen Meer, The Sigma Group
- James Walden, DNR
- Andrea Lorenz, Foth
- Grant Neitzel, DNR
- Jenna Soyer, DNR
- Jeramiah Yee, DHS
- Josie Schultz, DNR
- Kurt McClung, SET Environmental
- Candace Sykora, DNR
- Pam Mylotta, DNR
- Lanette Altenbach, AECOM Technical Services
- Joseph Martinez, DNR
- Toni Schoen, The Sigma Group
- Jacob Krause, SCS Engineers
- Lynelle Caine, Stantec

Introduction to Vapor Intrusion

Current DNR Vapor Intrusion Projects

- Upcoming guidance
- Vapor Intrusion for Local Government Webpage and Vapor Intrusion Topic Page - Discussion and feedback

Review of Priorities and Potential Work Plan Ideas

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Remediation and Redevelopment External Advisory Group



Work Plan Brainstorming

- Themes and ideas shared during discussion:
 - Educational resources provided by DNR
 - General request for an increase in continuing education opportunities presented by the DNR: quarterly webinars, RR Reports, cross-agency partnerships to provide technical presentations or conferences (e.g., FET, DHS). Conduct a brief analysis or reflection on which current outreach channels work best for consultants, what gaps exist and how to address the gaps.
 - Passive sampling best practices, instructions to occupants to minimize sample contamination for 7-10 day passive sampling, where to purchase passive samplers, and where to process passive samples
 - Define differences in “acute exposure” by Occupational Safety and Health Administration (OSHA) permissible exposure limits (PEL) and vapor action levels (VALs) and the DNR
 - A list of common household items that cause indoor air exceedances in homes or buildings for the public
 - Clear list of DNR-preferred contaminants of concern (COCs) to be sampled for
 - Other
 - Develop mitigation licensure requirements or develop recommended standards or education pathways for mitigators in Wisconsin that align with ANSI/ARRST certifications
 - Develop label methods for [Vapor Mitigation Systems \(VMSs\)](#). Develop best practices for monitoring and tracking VMSs, and decreasing the number of “lost” VMSs

Next meeting date

- Remediation and Redevelopment External Advisory Group (EAG) – Oct. 12, 2023
- RR EAG Subgroup Series – Dec. 5, 2023

Adjourn

Remediation & Redevelopment External Advisory Group Vapor Intrusion Subgroup

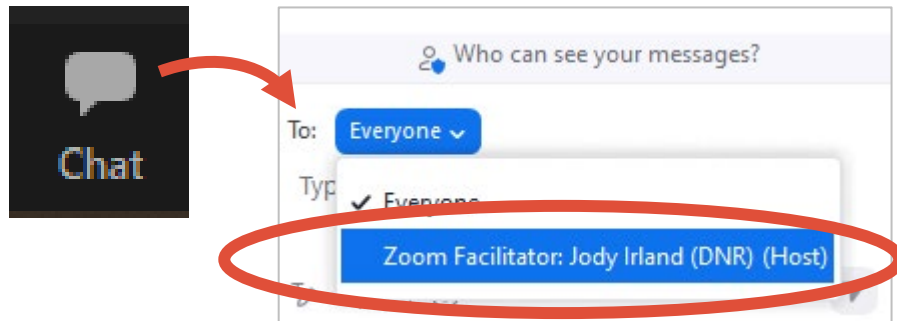
September 7, 2023

Zoom Meeting Logistics

All attendees are muted

Written Comments/Questions

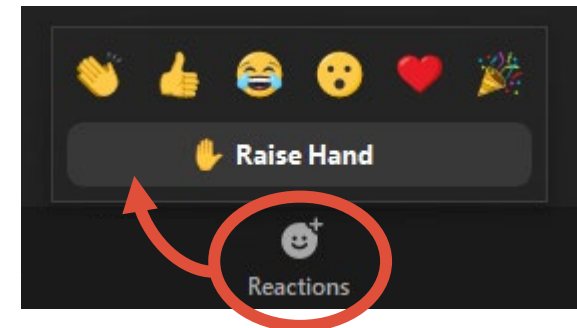
- Use **chat** and select Zoom facilitator in the “To” dropdown
- Remarks will be read out loud by facilitator



(direct message)

Verbal Comments/Questions

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




Agenda

- Introductions
- Introduction to Vapor Intrusion (VI)
- Current VI Projects
 - Upcoming guidance
 - VI for Local Governments Webpage
- Review Priorities and Potential Work Plan Ideas
- Work Plan Brainstorming
- Next Steps and Assignments
- Adjourn

Find agenda and meeting materials at
[dnr.wisconsin.gov/topic/
brownfields/rreag](https://dnr.wisconsin.gov/topic/brownfields/rreag)
under “meetings”

Future Meeting Dates

 Sign up
to receive notifications for RR EAG
and subgroups
dnr.wi.gov/topic/brownfields/rreag

RR EAG - October 12, 2023

- 9 a.m. – noon

Subgroup Series – Dec. 5, 2023

- 10 a.m. – 5:30 p.m.
- Milwaukee DNR Service Center

RR EAG - January 25, 2024

- 1 – 4 p.m.

Subgroup Series – Feb. 28

- 10 a.m. – 5:30 p.m.
- Madison GEF 2

RR EAG - April 11, 2024

- 1 – 4 p.m.

Subgroup Series – May 29

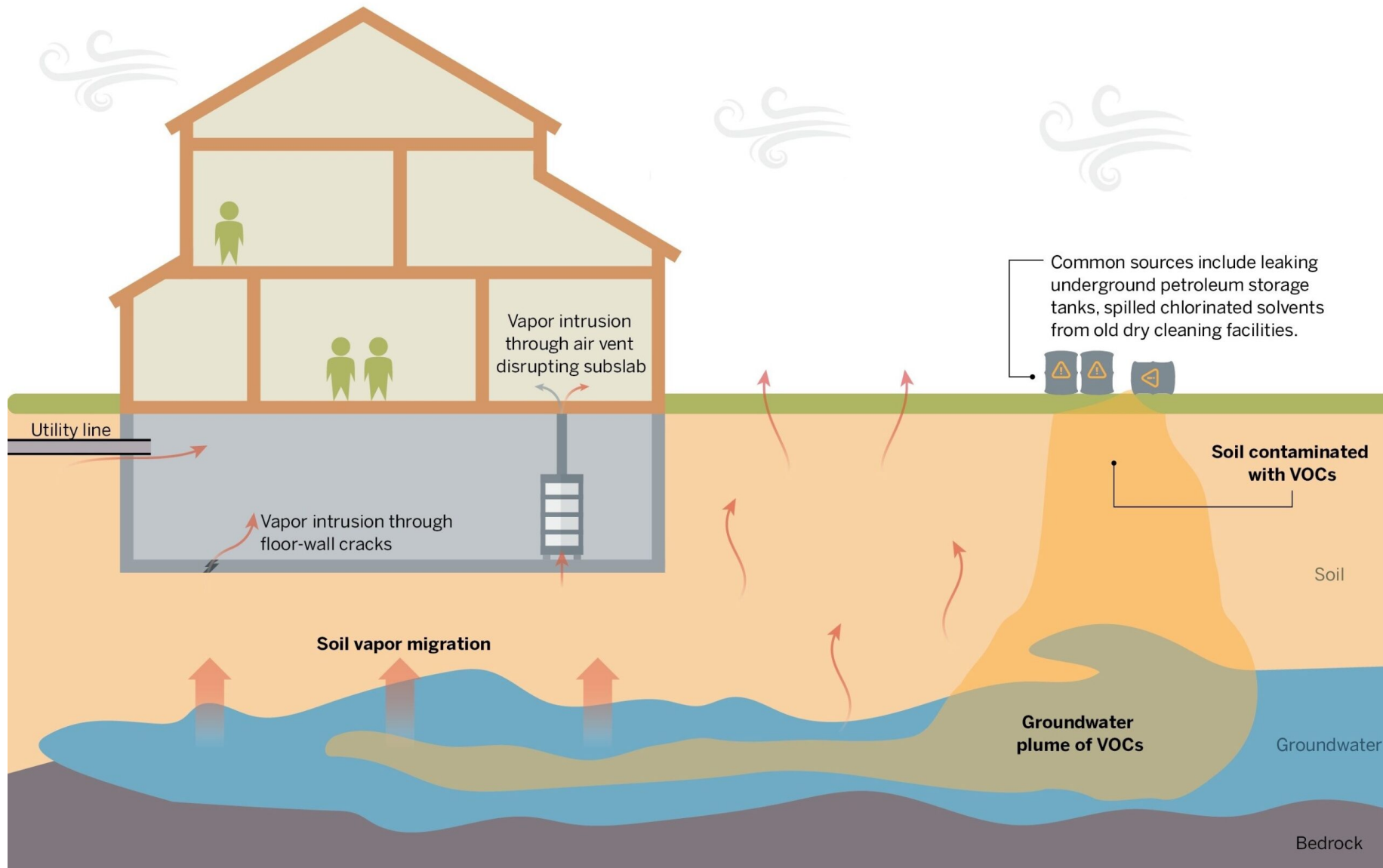
- 10 a.m. – 5:30 p.m.
- Madison GEF 2

RR EAG - July 25, 2024 (tentative)

Introductions



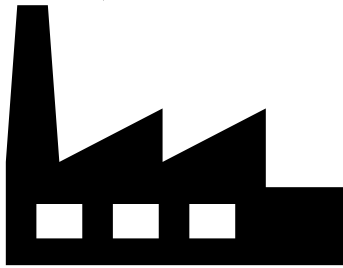
What is Vapor Intrusion?



Source: A3E Environmental Consultants



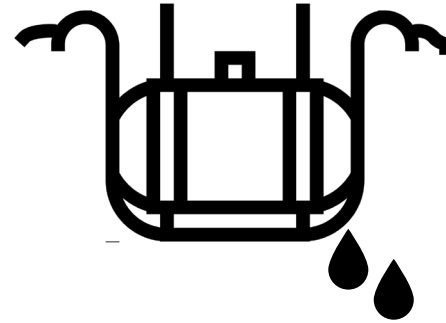
What are some causes of Vapor Intrusion?



Discharges
from
industry



Discharges
from dry
cleaners



Leaking
underground
storage tanks



Some spills

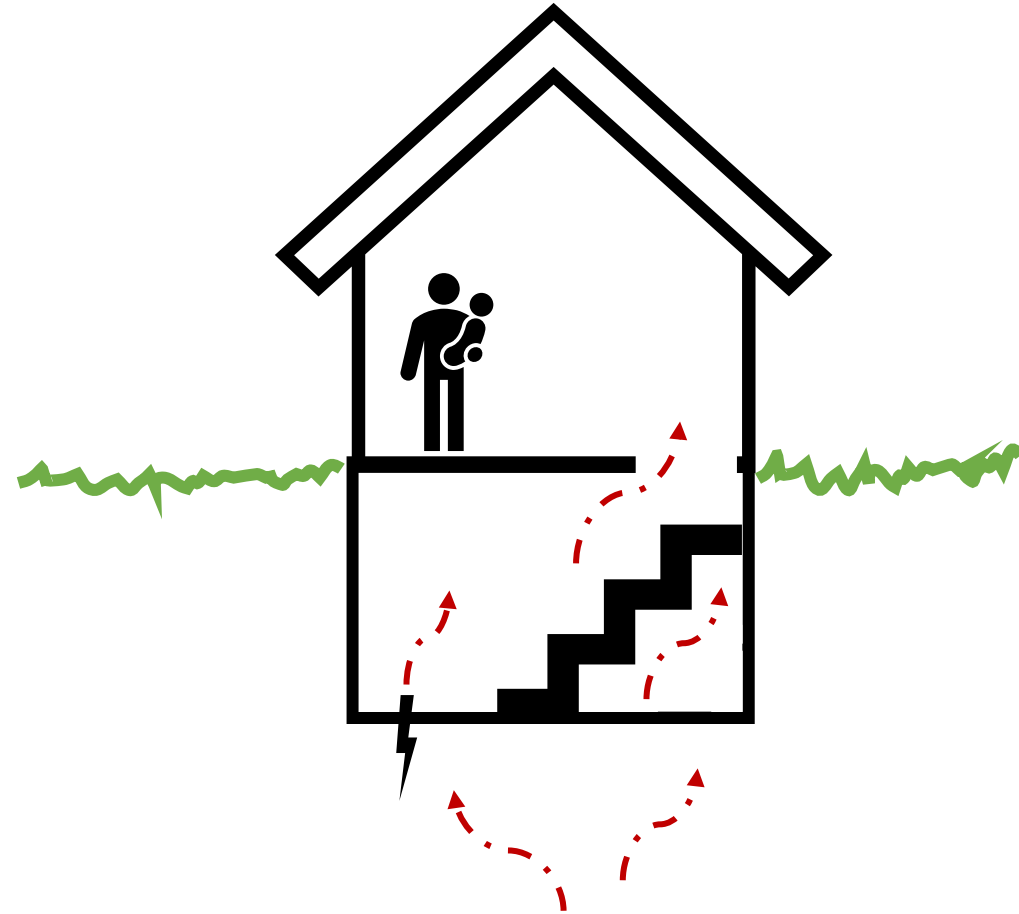
Wis. Stat. § 292.11 & Wis. Admin. Code chs. NR 700-799

What is NOT Vapor Intrusion?

- Mold
- Radon
- Particulate matter (i.e., dust you can see in the air)
- Products being used in the business or industry
- Off-gassing from household or construction products
- Spills from within a containment area
- Bad smells such as odor from manure being spread

Why should you care about Vapor Intrusion?

- Contamination can persist for decades
- Health risk factors include toxicity of the chemical, amount and length of exposure, and health of the individual.
 - e.g., TCE may affect blood, kidney, liver, immune, and nervous systems, and reproduction and fetal development.
- Vapors may be harmful to health even when odorless and colorless. Special testing is necessary.



What does the DNR do regarding VI?

- Dry cleaning and Vapor Intrusion Team (DVIT)
- Participate in national conferences and work groups
- Provide trainings and education
- Draft guidance
 - *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin (RR-800)*
 - *Guidance for Documenting the Investigation of Human-made Preferential Pathways Including Utility Corridors (RR-649)*
- Support and regulate the investigation and cleanup of hundreds of contaminated sites with VI

VI resources and information available at dnr.wi.gov by searching “vapor”

Coming Soon!

Vapor Intrusion for Local Governments Website



General
Public



What VI resources do
local governments
need or want the most?



Environmental
Professionals

DNR VI Priorities

- Provide education for a variety of stakeholders and protect the public health
- Identify and prioritize high risk sites
- Assess public risk for stalled chlorinated solvent sites
- Increase success of vapor mitigation installations and long-term stewardship of systems
- Identify locations of potential historical chlorinated solvent sources for local government planning purposes

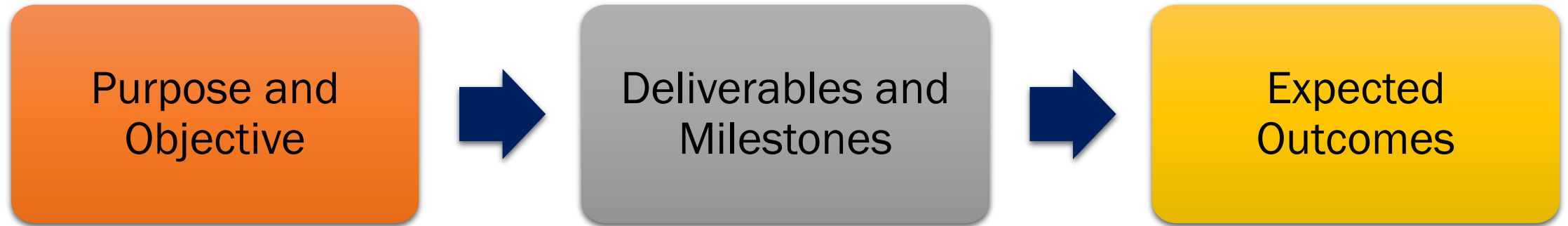
Ideas for potential VI Work Plan from last EAG meeting

- Process for DNR to proactively reach out to local governments without data in-hand first
- Expand opportunities and community partnerships for DNR sponsored continuing education
- Enhance partnerships with chemical vapor intrusion mitigation professionals

Protect public health

Provide education and share best practices

Work Plan Brainstorming



Ideas for potential VI Work Plan from last EAG meeting

- Process for DNR to proactively reach out to local governments without data in-hand first
- Expand opportunities and community partnerships for DNR sponsored continuing education
- Enhance partnerships with chemical vapor intrusion mitigation professionals

Action Items and Next Steps

- **Seeking external chairperson** who will be supported by knowledgeable DNR buddies, email Jennifer.Borski@wisconsin.gov

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OFF THE RECORD"