

DISCUSSION:

ISSUES THAT CONFOUND SITE CLEANUP

Audience participation encouraged!

Panelists:

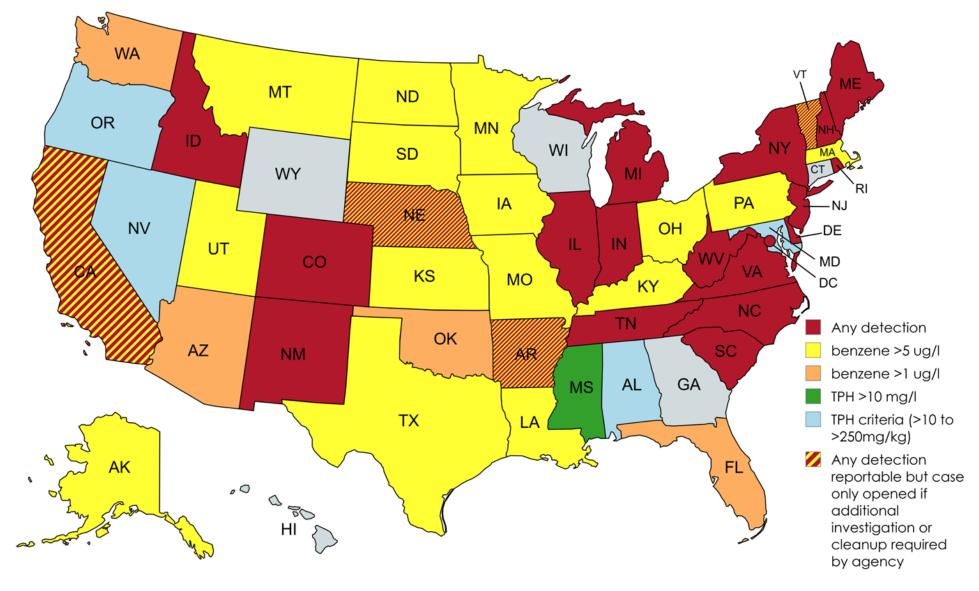
Alex Wardle, USEPA OUST
Cassandra Garcia, WA Pollution Liability Insurance Agency
Dayna Cordano, CA Water Resources Control Board
Debra Thoma, SC Department of Environmental Services
Nancy Mann, NE Department of Water, Energy, and Environment
Tom Fox, CO Division of Oil & Public Safety



HAVE A TOPIC?

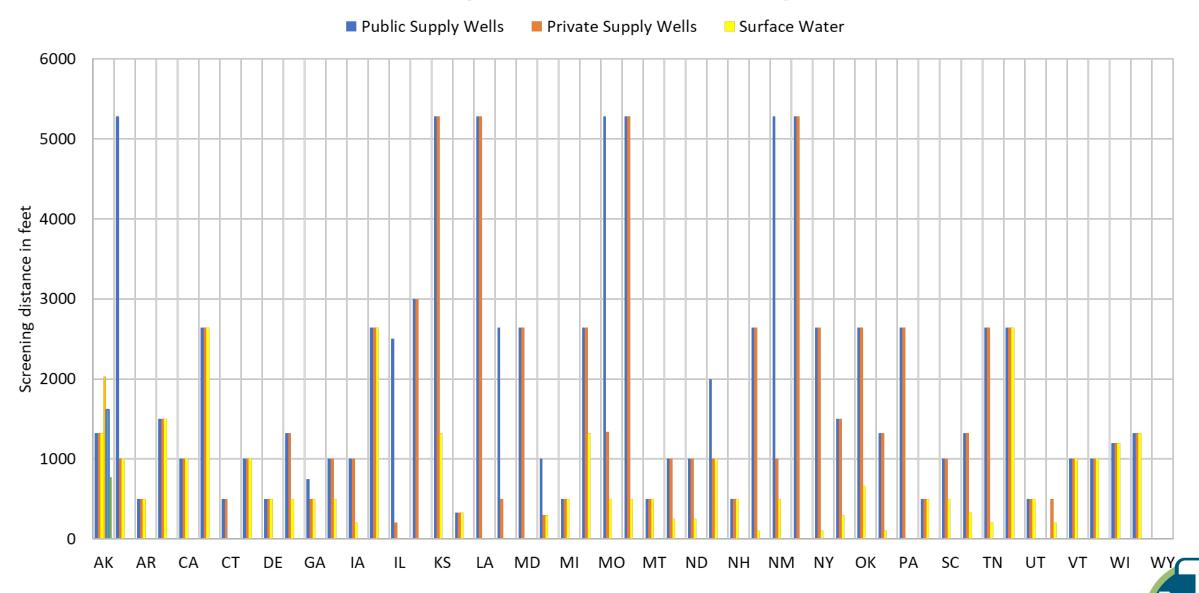
Bring it up so we can discuss it

What defines a release case?





State Screening Distances for Groundwater Investigations

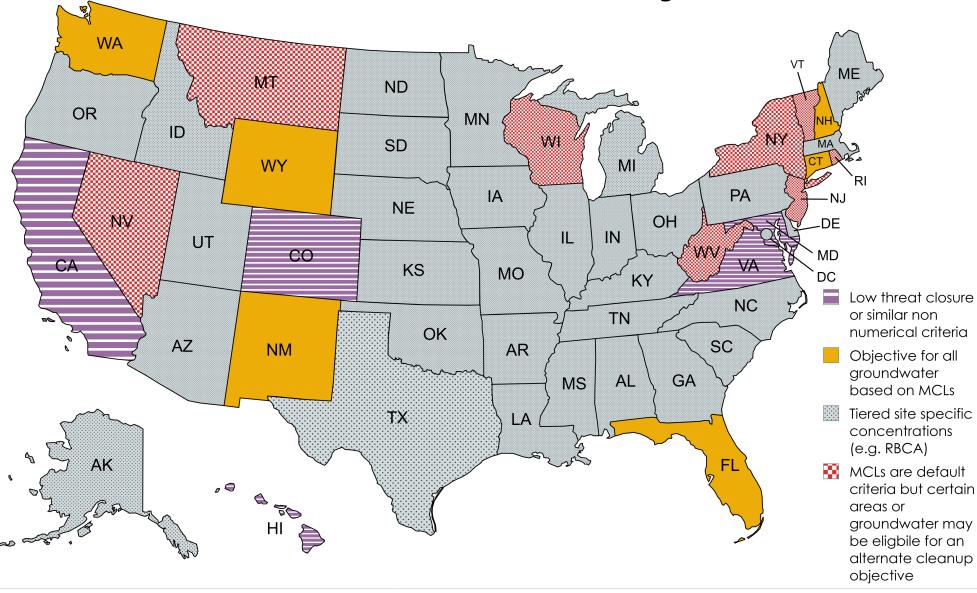


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1. STATES REQUIRE VARIOUS RECEPTOR SEARCH DISTANCES...

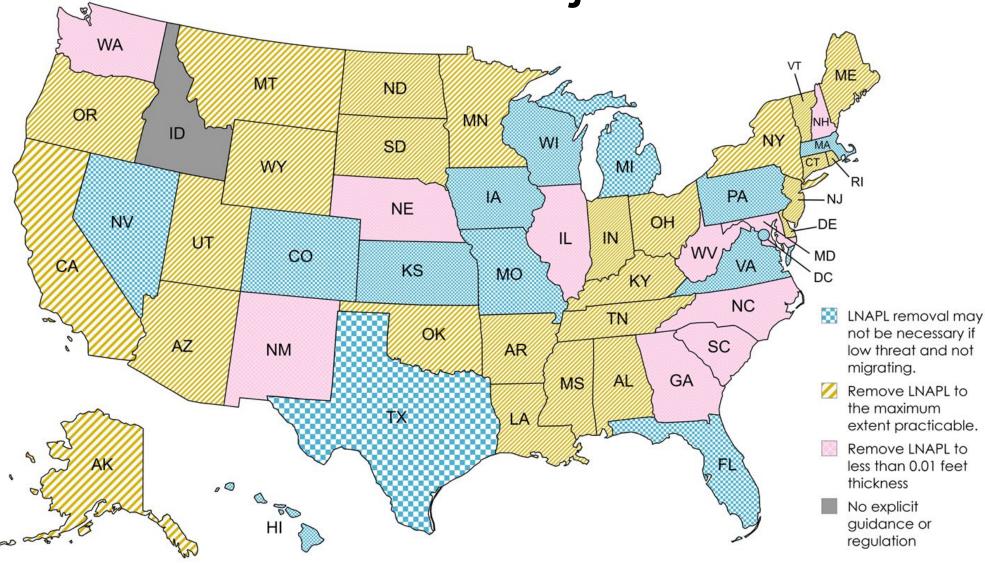
- How and why does this essential risk factor vary?
- Is the area tailored to reflect regional flows or simply a circle around a site?
- Do differing aquifers, well construction methods and materials, urban versus rural areas, and surface water uses play a role in receptor identification?
- Is future use a consideration (how far into the future)?

Groundwater Objectives





LNAPL Objectives



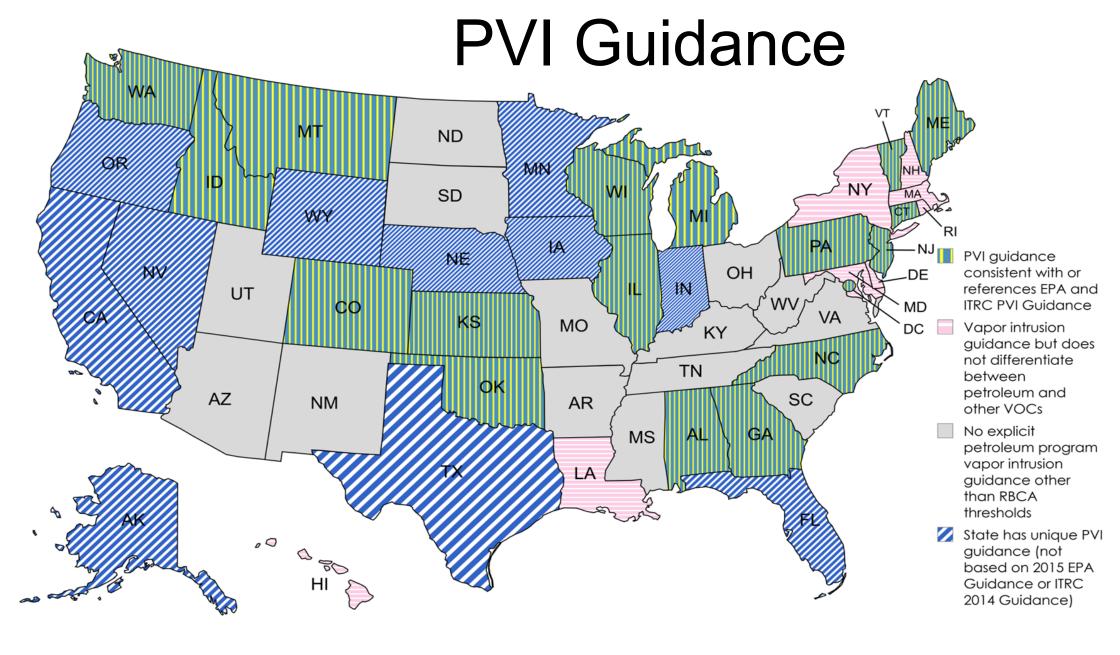


2. How do states interpret Maximum Extent Practicable (MEP) for site closure?

- What factors do states consider when determining MEP, and what "weighting" is assigned?
- When is enough enough?
- If closure criteria are not met, what additional steps are taken to advance the site toward closure?

3. OVERLAPPING PLUMES

- What methods do states use or accept to differentiate overlapping releases? Or sources / ages on one site?
- When multiple Responsible Parties (RPs) are identified, how do states apportion responsibility? What if no RP can be identified?
- What criteria are applied (analyses, hydrogeology), and what success has been achieved?
- Has HRSC been used successfully at such sites to answer this question?





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4. How does your state assess Petroleum vapor intrusion (PVI)?

- Is EPA's VISL table used?
- Do you account for biodegradation? Vary the attenuation factor?
- Are RBSLs set, or is modeling allowed (PVI Screen, Biovapor)?
- How are you assessing conduits / backfill for contamination to avoid utility damage?
- Do you have examples of cases where utility backfill was documented as a PVI pathway?
- Do you have community engagement materials available for use?

5. WHEN A WATER SUPPLY BECOMES CONTAMINATED OR PVI MITIGATION IS STARTED...

- How does the state respond if / when the RP is not able to financially address the situation?
- Or if the RP dies or becomes defunct?
- What is a typical 'exit plan'?

6. IS CLOSURE WITH CONTAMINATION OFFSITE AN ALTERNATIVE?

- Does any state NOT allow it, and why?
- What restrictions (no LNAPL, minimum depth, F&T modeling, etc.)?
- How are property owners notified (notification, public meeting)?
- Can they object based on non-RBCA issues?
- If deed notifications / restrictions... the process in your state?
- If closed, how / when is a site re-opened?

7. What is the impact of PFAS on your PETROLEUM PROGRAM?

- Do you anticipate it will have an impact?
- Are you required to sample for it?
- What about other contaminants (metals, CVOCs, etc.)?
- Is it affecting waste disposal? (maybe become hazardous?)
- Is analysis/disposal reimbursable under your state fund?