

Rapid Response to the Norfolk Southern Chemical Spill and Chemical Fires in East Palestine, Ohio

Andrew Whelton, Ph.D., and more

awhelton@purdue.edu

www.PlumbingSafety.org

Funded by:











Our six field investigations, February 23-June 10

Goal: To better understand the chemicals present and human exposure pathways.

Environment

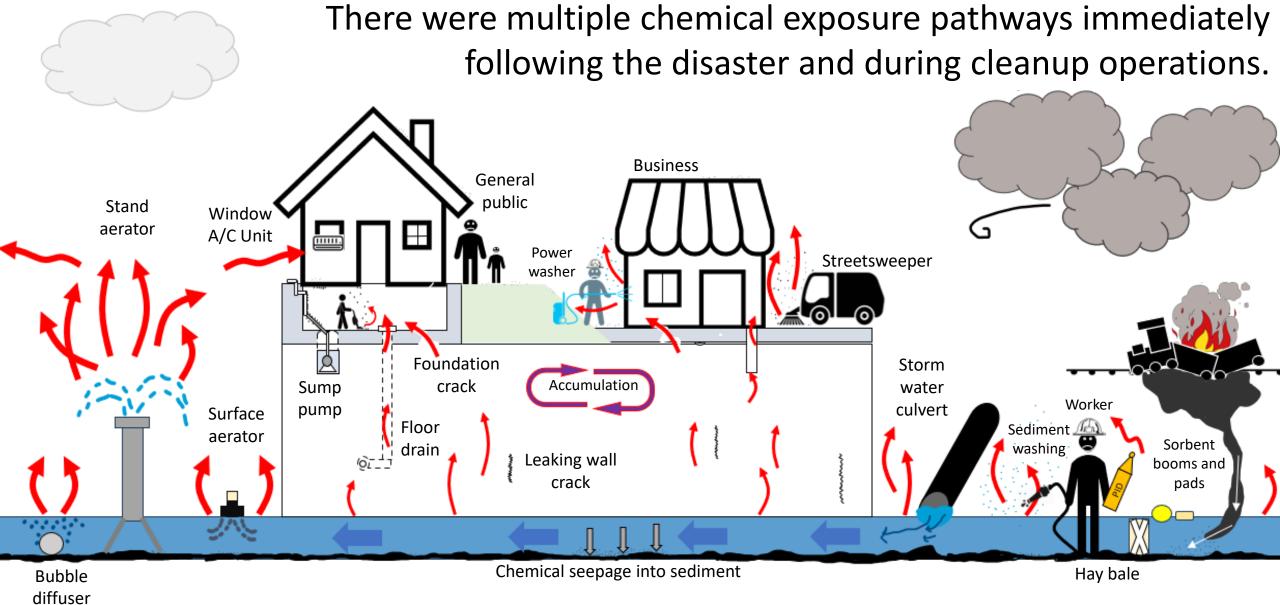
- 1. Atmospheric modeling to understand the initial chemical fate and open burn.
- 2. Creek water sampling to identify chemicals released (i.e., TPH, PFAS, VOCs, SVOCs, metals)
- 3. Estimated chemical biodegradability in creeks.
- 4. Evaluated sorbent pad cleanup effectiveness.
- 5. Evaluated the impact of aeration on chemical emission from creeks.

Buildings

- 1. Documented household and business owner experiences and reviewed test results.
- 2. Private drinking water well sampling.
- 3. Wipe sampled building exteriors and new vinyl siding.
- 4. Analyzed honey from nearby apiaries.

Provided advice and evidence to USEPA Administrator, USEPA region 5, County and State Health Department, Ohio EPA, Governor of Ohio, Governor of Pennsylvania, Elected Officials





Illness: CDC employees, US Sen. Vance Office, PA Sen. Mastriano, USEPA contractor, RR workers, East Palestine municipal employees, residents, me, and more...

PURDUE