Briefing for the Joint Standing Committee on Agriculture, Conservation and Forestry

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MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

Protecting Maine's Air, Land and Water

What are PFAS & Where are they?

PFAS = per- and poly fluoroalkyl substances



- Any member of the class of fluorinated organic chemicals containing at least one fully fluorinated carbon atom
- Found in ME in
 - Groundwater and Surface Water
 - Active/Closed Landfills
 - Sludge/Septage Land Application Sites
 - Contaminated/Remediation Sites (AFFF often the source)

How are PFAS being managed in Maine?

- Public Law 2021, Chapter 478, Effective October 18, 2021
- An Act to Investigate PFAS Substance Contamination of Land and Groundwater
- Requires DEP to conduct soil and water investigation for contamination derived from application of sludge and septage; and Coordinate with Maine Department of Agriculture



Maine's Interim Drinking Water Std = 20 ppt for the sum of six PFAS: PFOA, PFOS, PFNA, PFDA, PFHpA & PFxHS

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Prioritizing Sludge Sampling Locations**

		reakdown of Tiers dep/spills/topics/pfas/index.html		
Tier	Land application of sludge* (volume - cy)	Other Considerations	Nearest homes	
I	10,000 or more		_	
11	5,000 - 10,000	Site may be downgraded to Tier III OR elevated to Tier I	Within ½ mile	
III	Less than 5,000	Site may be elevated to Tier I		
IV	More research/time nee	date indicates no sludge was land a eded to verify. Once verified, these s r as appropriate using the above cri	ites may	

* PFAS likely to be present in sludge based on an evaluation of known sources or contributors of wastewater at a treatment facility.
** Septage will be handled separately from sludge.

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PFAS Investigation Timelines



Estimated

- Tier I sites: Through early 2023
- Tier II sites: 2023 2024
- Tier III & IV sites: 2024 2025

- Timelines estimated not exact
 - Investigation expected to speed up as DEP gains experience
 - Difficult to know where expanded, step-out sampling will be necessary, this will impact pace of investigation
 - Staff are working as fast as possible!

PFAS Investigation Timeframes

- Half of all sites must be sampled by end of 2024; all by end of 2025
- Extremely fast-paced! Narrow focus soil and water
- Perspective -- 208 weeks between 1/1/2022 and 12/31/2025
- Approximately 3.5 sites per week (water and soil) by each project team under the best of circumstances
 - Multiple samples are obtained in each field location
 - Weather conditions/seasons and other factors will impact pace





PFAS Investigation Process

1. In depth review of project licenses/annual reports to determine where land applications really took place

- 2. Develop an initial sampling & analysis plan (SAP) for each site
- 3. Contact landowner/homeowner to schedule sampling events
- 4. Coordinate with the DACF to determine if additional considerations or sampling required for landowners
- 5.Conduct sampling event and deliver samples to the lab
- 6. Obtain and review lab results for data quality and irregularities
- 7. Provide landowner/homeowner with laboratory results
- 8. Evaluate data to determine need for stepped out SAP

PFAS Post-investigation Process

- Elevated soil results:
 - DEP coordinates with DACF regarding lab results
 - DACF coordinates with landowners to discuss next steps
 - DEP and DACF process still being refined
- Elevated residential water results:
 - DEP coordinates with homeowners to discuss lab results
 - Bottled water provided until filtration systems can be installed and maintained
 - Farm water systems; coordinate with DACF
 - Drinking water lines; coordinate with DWP



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Self-Testing

- DEP can't get to every site at the beginning despite concerns!
- For sites that haven't been scheduled:
 - Private drinking water wells can be tested by individual homeowners – guidance is available on DEP website
 - Soil sampling, sampling of animal tissue, sampling of agricultural products is more challenging and will require assistance from the Department of Agriculture, Conservation and Forestry

Interagency Coordination

- DEP is coordinating with several different agencies
 - Assistance to Farms and Agriculture (DACF)
 - Health Impacts and risk communication (CDC)
 - Public Drinking Water lines, public water systems (DWP)
 - Fish, Wildlife, Game and recreational impacts (IF&W)
- Agencies meet regularly
- Not all agency mission/goals align perfectly – some confusion for the public
- Inter-agency website expected early Summer



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Contact us at: pfas.dep@maine.gov

www.maine.gov/dep/spills/topics/pfas/index.html



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