



Toxics Cleanup Program PFAS Work

State Board of Health

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November 13, 2024

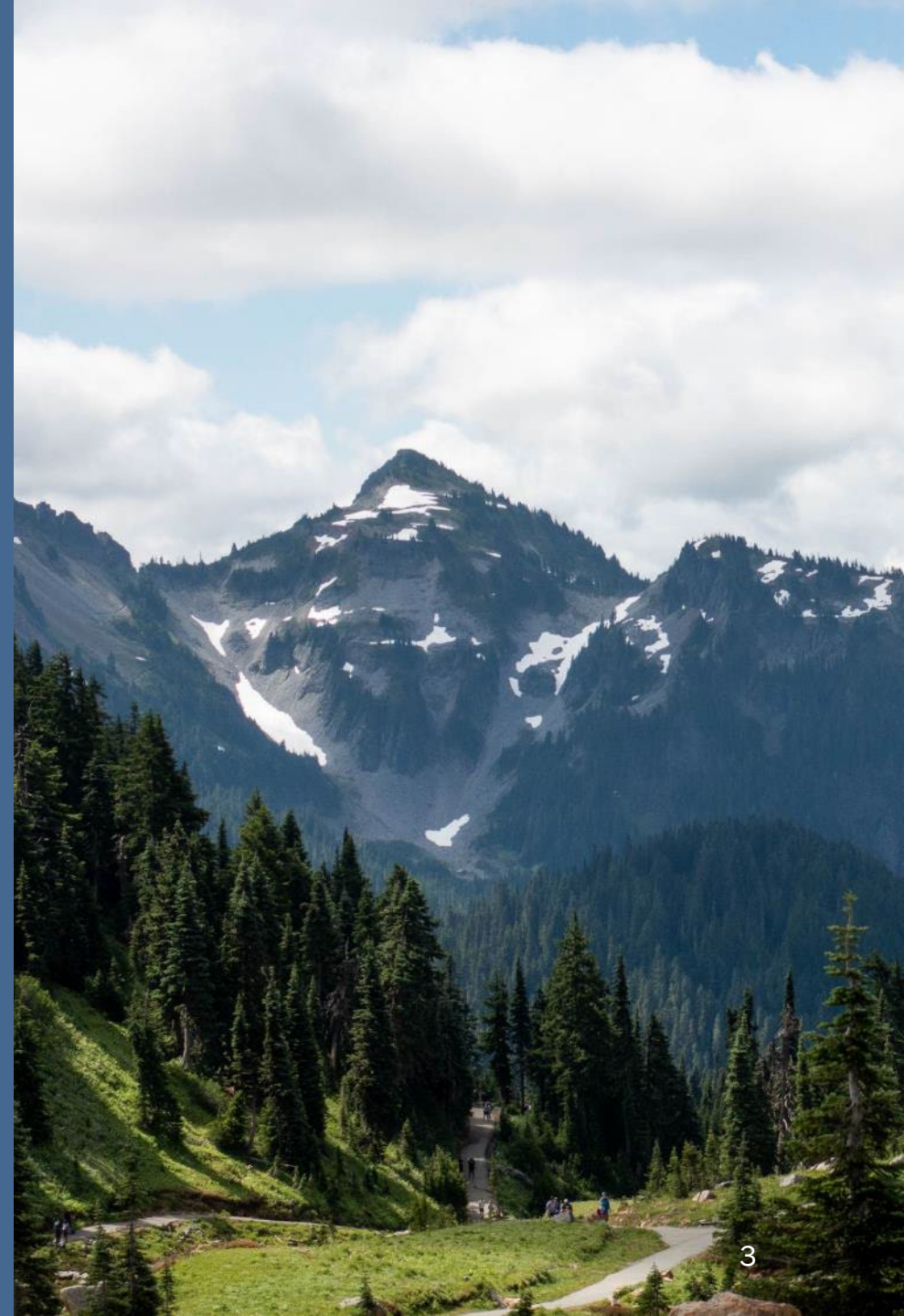
Topics

- Toxics Cleanup Program
- PFAS as a hazardous substance
- TCP PFAS Guidance
- TCP PFAS risk-based levels
- PFAS Statewide funding strategy
- TCP PFAS Sites
- Questions



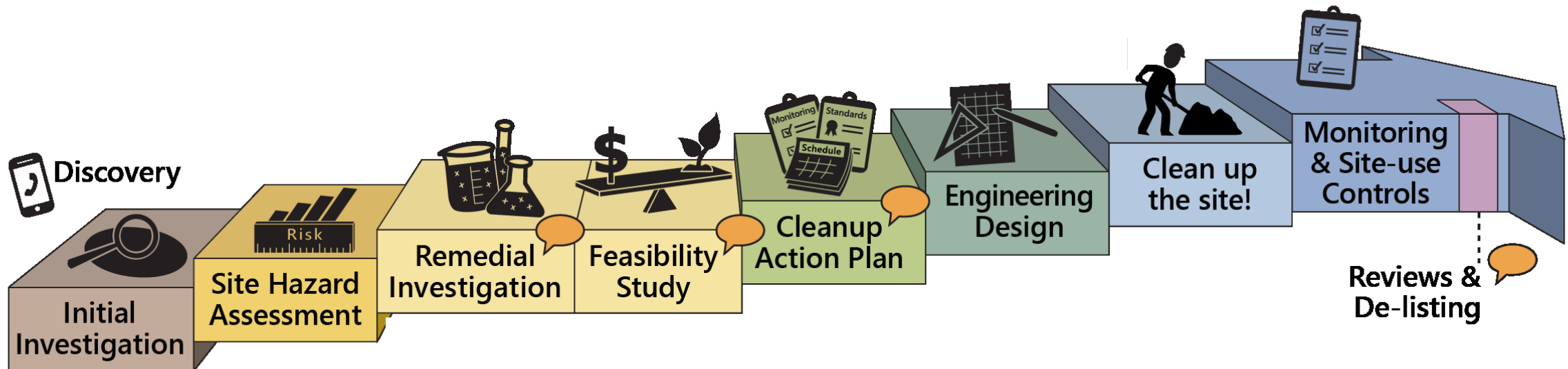


Toxic Cleanup Program (TCP)



Toxics Cleanup Program (TCP)

- Clean up contaminated sites
- Model Toxics Control Act (MTCA)



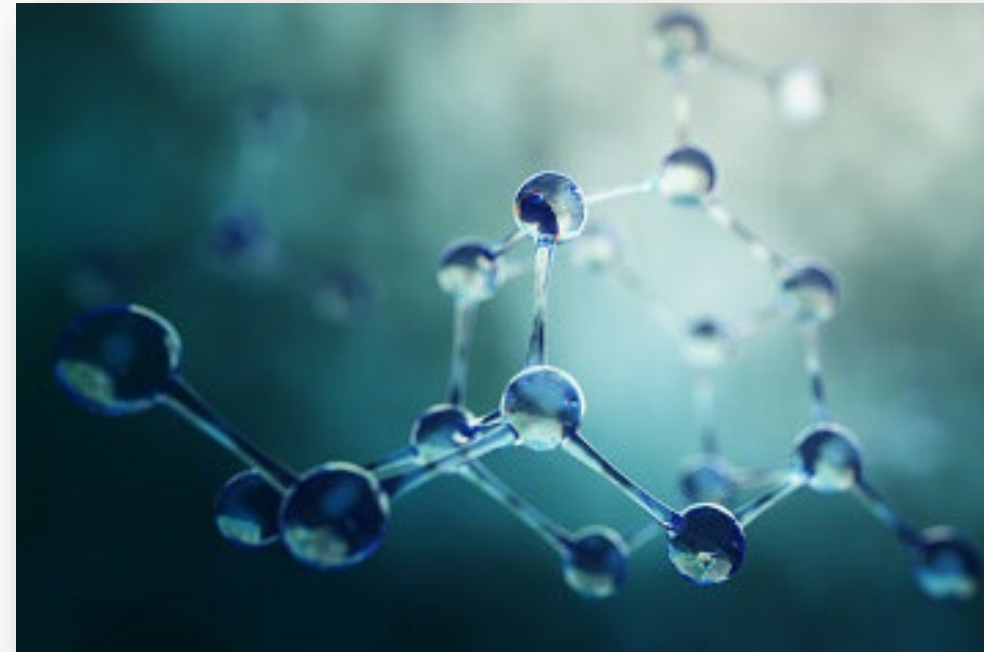


PFAS as a Hazardous Substance



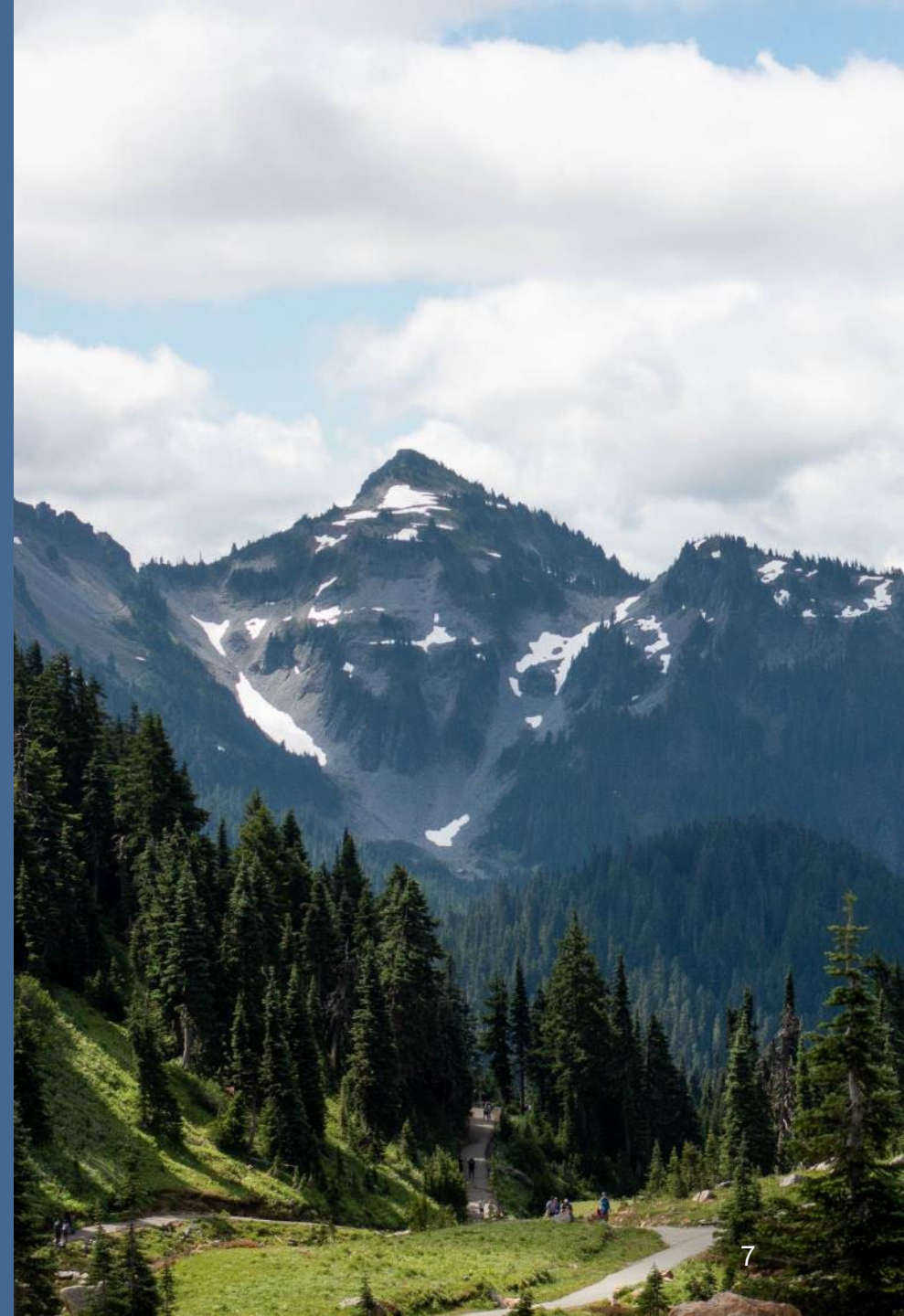
PFAS as a Hazardous Substance

- October 2021: PFAS are hazardous substances under the Model Toxics Control Act (MTCA)
 - Hazardous substances under Ecology's Dangerous Waste Rule are considered hazardous substances under MTCA
- Potential risks to people and ecological receptors
- PFAS releases required to be reported
- July 2024: EPA's CERCLA determined PFOA and PFOS to be hazardous substances





Toxic Cleanup Program (TCP) Guidance



TCP PFAS Guidance

- Investigating and cleaning up PFAS contaminated sites
- Background
- Screening
- Sampling
- Analytical methods
- TCP risk-based levels (human health, ecological)
- Treatment technologies



**Guidance for
Investigating and Remediating
PFAS Contamination in
Washington State**

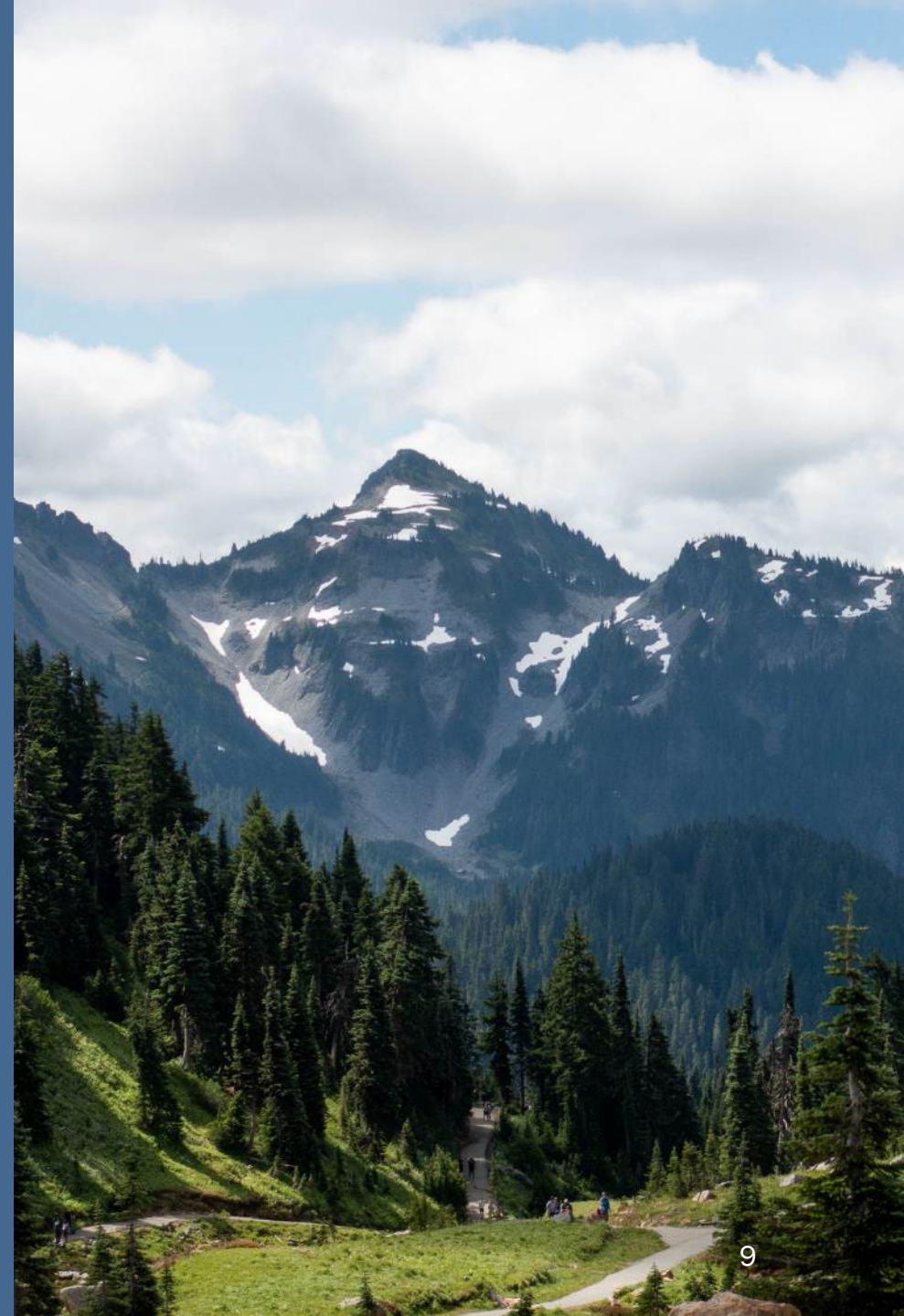
Toxics Cleanup Program

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TCP PFAS Risk-Based Levels

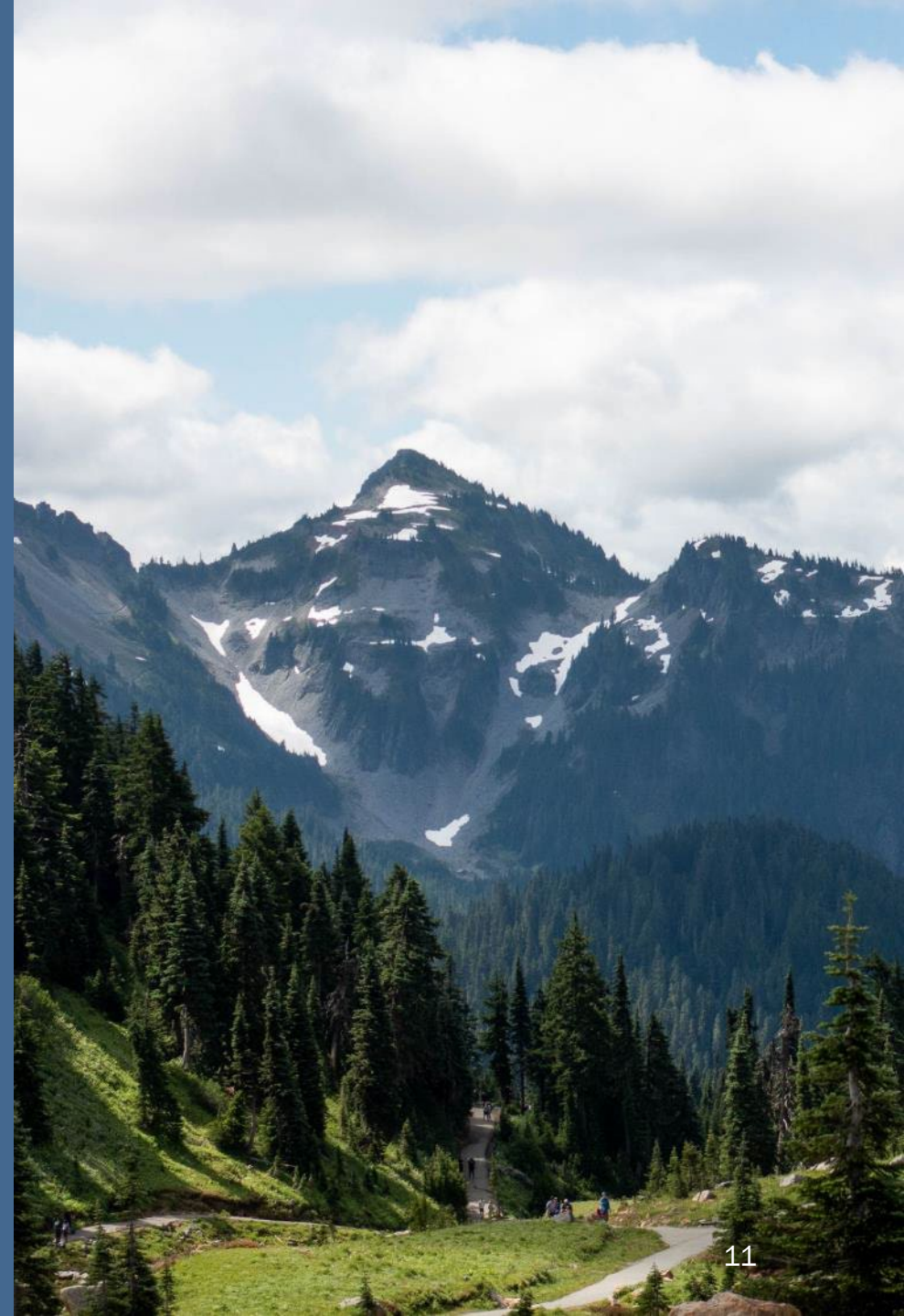


TCP PFAS Risk-Based Levels

Media	Human Health	Ecological	Comments
Groundwater	Yes	Not applicable	EPA's MCLs used as groundwater cleanup levels when available
Soil	Yes	Yes	Protects groundwater from PFAS in soil and incidental ingestion
Surface Water	Yes	Yes	EPA's water quality standards used as surface water levels when available
Sediment	In process	In process	2025 or later
Air	To be determined	Not applicable	Will evaluate once more data is available



PFAS Statewide Funding Strategy



PFAS Statewide Funding Strategy

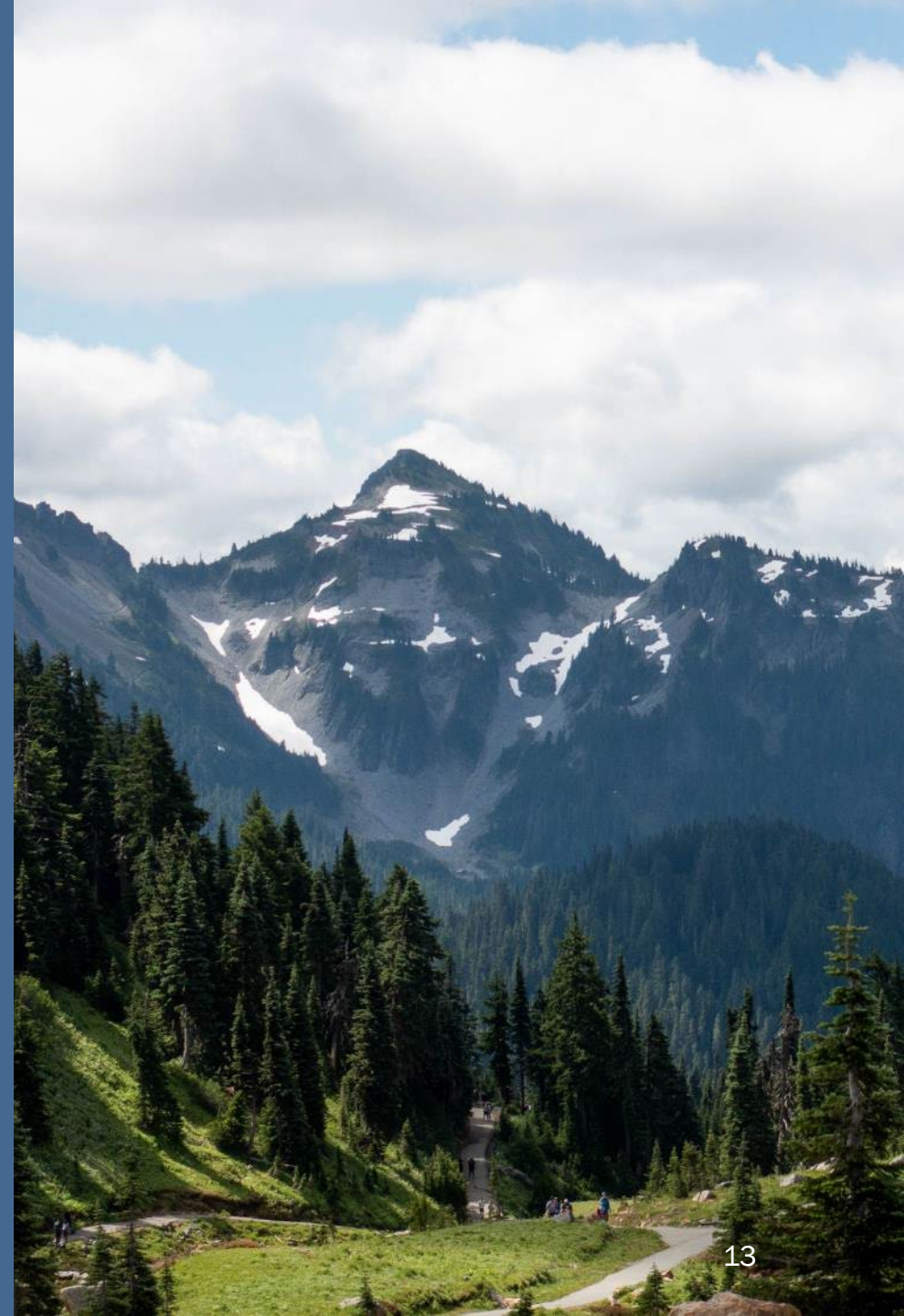
Resources and Funding Needed

- TCP request for new staff
 - 3 site managers
 - 1 public involvement staff
- TCP request for \$3 million
 - Initial sampling
 - Interim actions, including providing safe drinking water





TCP PFAS Sites



TCP PFAS Sites

- 35 Confirmed PFAS sites
 - PFAS has been detected at the site
- 36 Suspected PFAS sites
 - Reason to suspect PFAS is present based on nearby sources
 - Airports, fire stations, fire training centers, etc.
- 935 other potential PFAS sites
 - PFAS might be present based on the type of site
 - Landfills, dry cleaners, metal plating and finishing sites



Dry Cleaners



Landfill Leachate

DoD PFAS Sites

Suspected or Confirmed PFAS in Groundwater & Soil

- *US Navy Air Whidbey Island*
- *Naval Base Kitsap – Bangor*
- Naval Base Kitsap – Keyport
- Naval Base Kitsap - Manchester
- Bremerton Naval Complex
- US Naval Station Pacific Beach
- US Naval Station Everett
- US Navy Radio Station Jim Creek
- US Navy Port Hadlock
- US Navy Jackson Park
- *Joint Base Lewis McChord*
- *Yakima Training Center*



Military Bases

DoD – Department of Defense

Red, italic font = sites with PFAS detections in drinking water

Other PFAS Sites

Suspected or Confirmed PFAS in Groundwater & Soil

- *Bailer Hill Area*
- *Lower Issaquah Valley*
- *State Fire Training Academy*
- *Fairchild Air Force Base*
- *Spokane International Airport*
- *Seattle-Tacoma International Airport*
- Paine Field
- Port of Pasco Big Industrial Park Lagoons
- Marshall Landfill
- Washington Cold Storage



Airports

Red, italic font = sites with PFAS detections in drinking water

Summary

- Contamination presence and severity unknown
 - Not analyzed at many sites where they may be present
- Number of PFAS sites will increase as more areas are sampled and investigated
- Requesting additional resources and funding now
- More resources and funding will be needed in the future



Metal Plating and finishing



Thank you

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