

Thermal Treatment Solutions

Regulatory compliant thermal treatment of non-hazardous contaminated soils and sediments in Alaska.



REPUBLIC
SERVICES

Sustainability in Action



Thermal Treatment Solutions

Republic Services offers regulatory compliant thermal treatment of non-hazardous contaminated soils and sediments in Alaska.

We provide customers a compliant, environmentally safe and cost-effective solution for treating and disposing of materials contaminated with PFAS, petroleum or oil and lubricants through thermal treatment technology. Non-hazardous soils that have been impacted by industry and commerce are thermally treated, and once certified clean, are 95% compactable fill and can be reused in a variety of situations.

Thermal Treatment Equipment

Republic Services uses a proven high temperature thermal oxidizer that consistently remediates any level of hydrocarbon contamination, all while accomplishing superior clean up levels with a wet scrubber that assures air quality levels nearly five times cleaner than stringent Alaskan Department of Environmental Conservation (ADEC) regulations. Our thermal soil remediation returns clean soil available for reuse or resell.

Lined Storage and Treatment Areas

With approximately two acres of lined storage and treatment areas, contaminated material is stored on site, placed on a membrane liner and, in accordance with ADEC guidelines for thermal soil treatment, and is covered until treated.

Our Capabilities

Our Thermal Treatment technology accepts several types of non-hazardous waste, including:

- Non-hazardous petroleum
- PFAS/PFOA contaminated soil and sediment
- Treatable granular media

Why Republic Services?

- ✓ Reduce risk/environmental impact
- ✓ Safe and compliant
- ✓ Returns soil 5x cleaner than ADEC (Alaska Department of Environmental Conservation) regulations



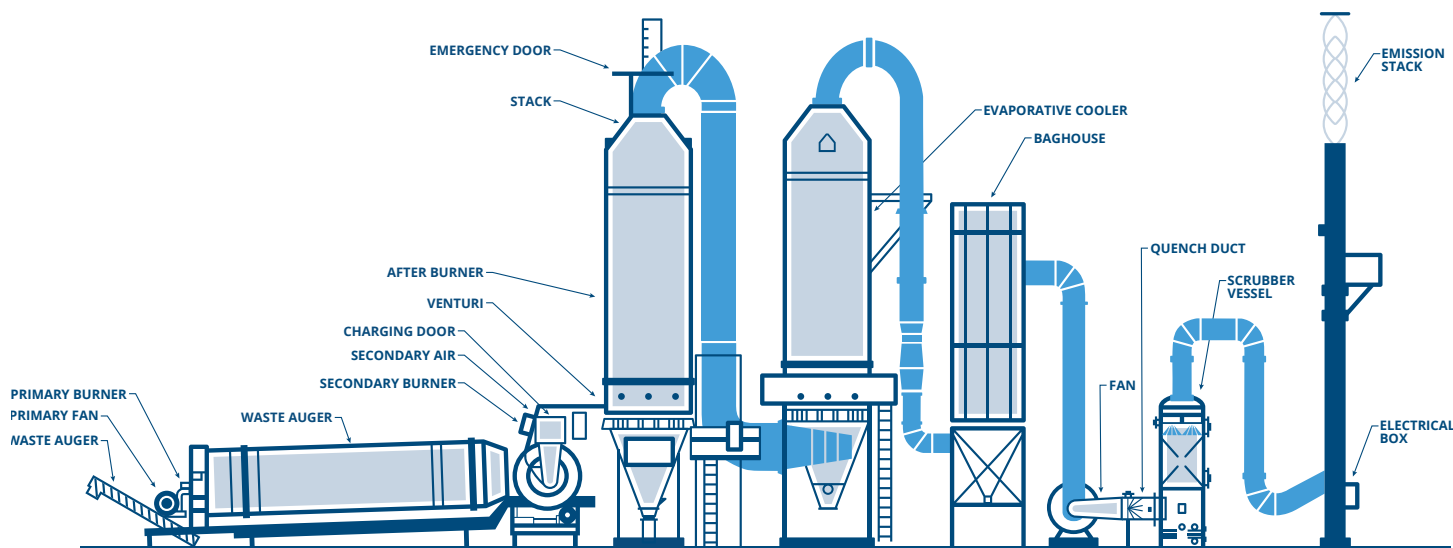
The Thermal Treatment Process

1. Ensure materials are non-RCRA or RCRA exempt
2. Inject contaminated soil into a kiln
3. Heat the soil to 1200-1500°F
4. Draw gas vapors and particulates into secondary combustion chamber to destroy PFAS compounds with 1800-2000°F temperatures
5. In the cooling tower, spray gases and particulates with water to cool to 350°F
6. Cool exhaust gases in quench duct before they enter scrubber
7. Expose gases to caustic solution
8. Exhaust gases through a stack on top of scrubber

Our Thermal Facilities

Alaska — Moose Creek Facility

- High temperature thermal oxidizer
- Remediates any level of hydrocarbon contamination
- Superior cleanup with wet scrubber
- Assures air quality is 5x cleaner than stringent state regulations



Visit RepublicServices.com or call
800.592.5489 for more information,
or contact your Sales Representative.

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