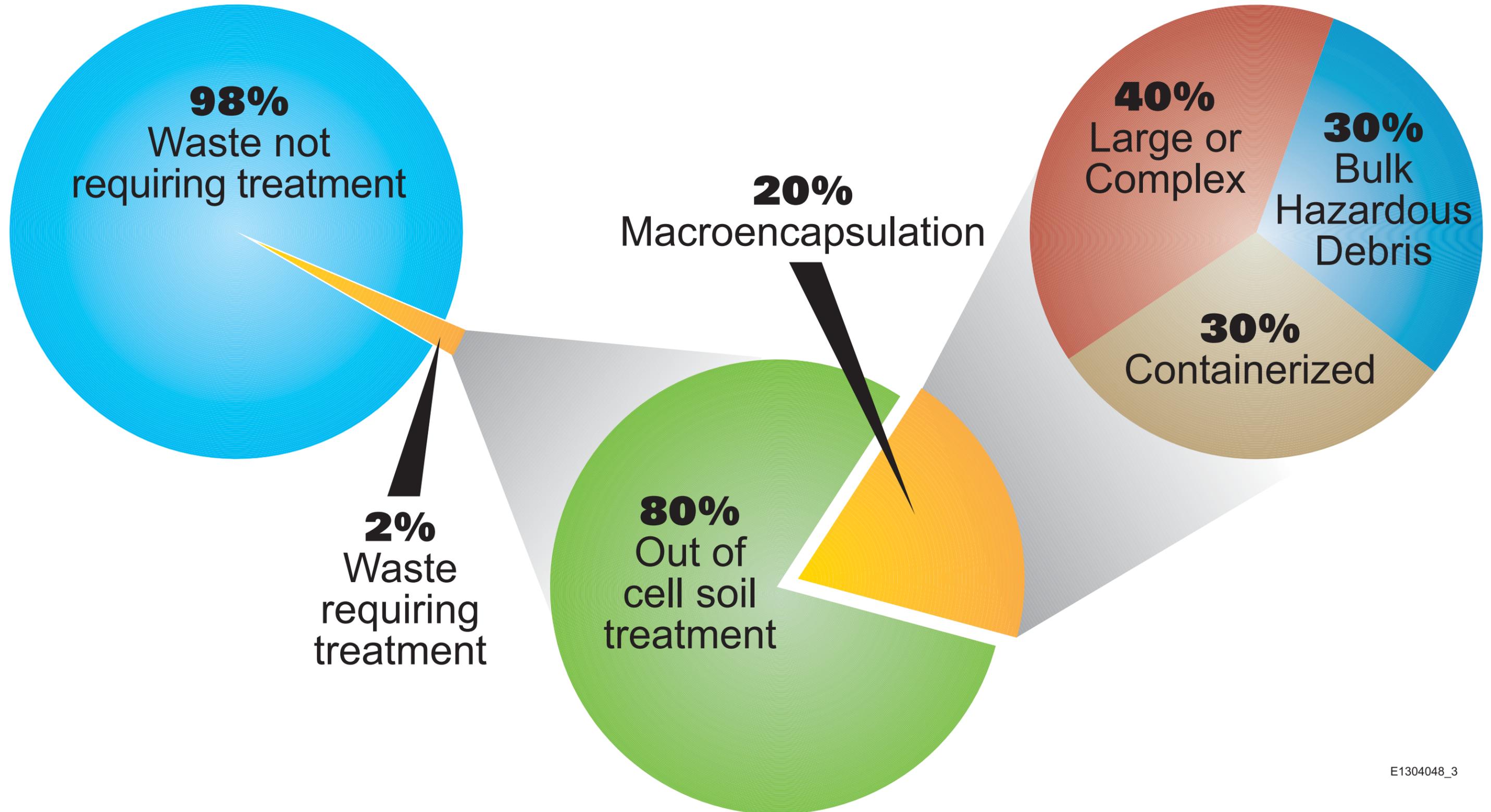
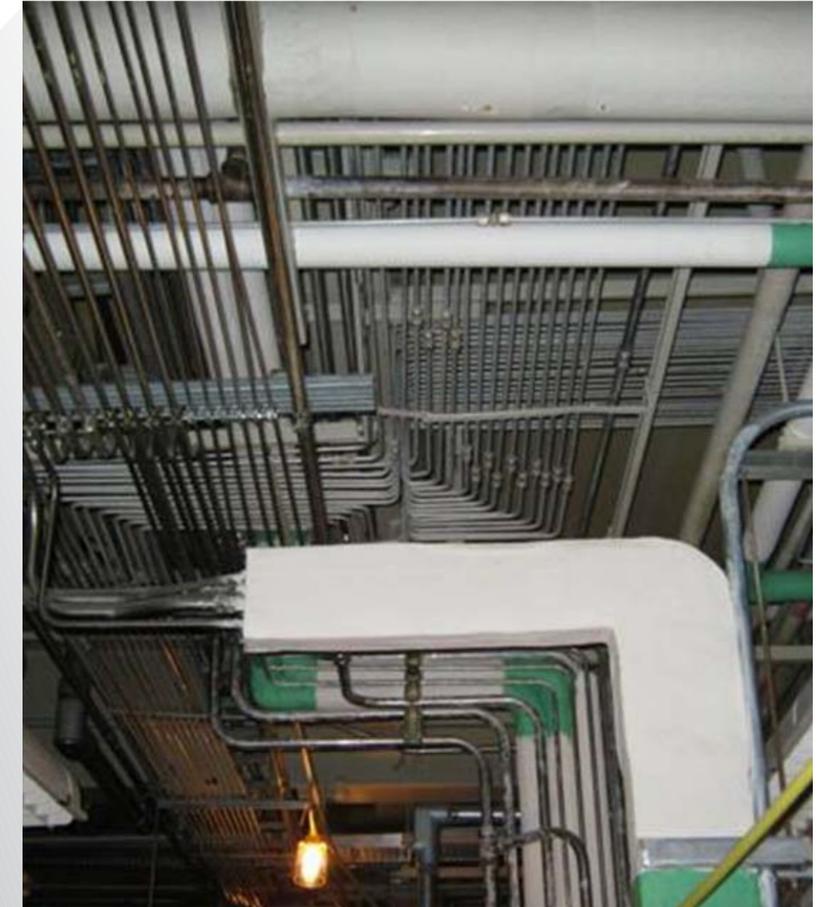
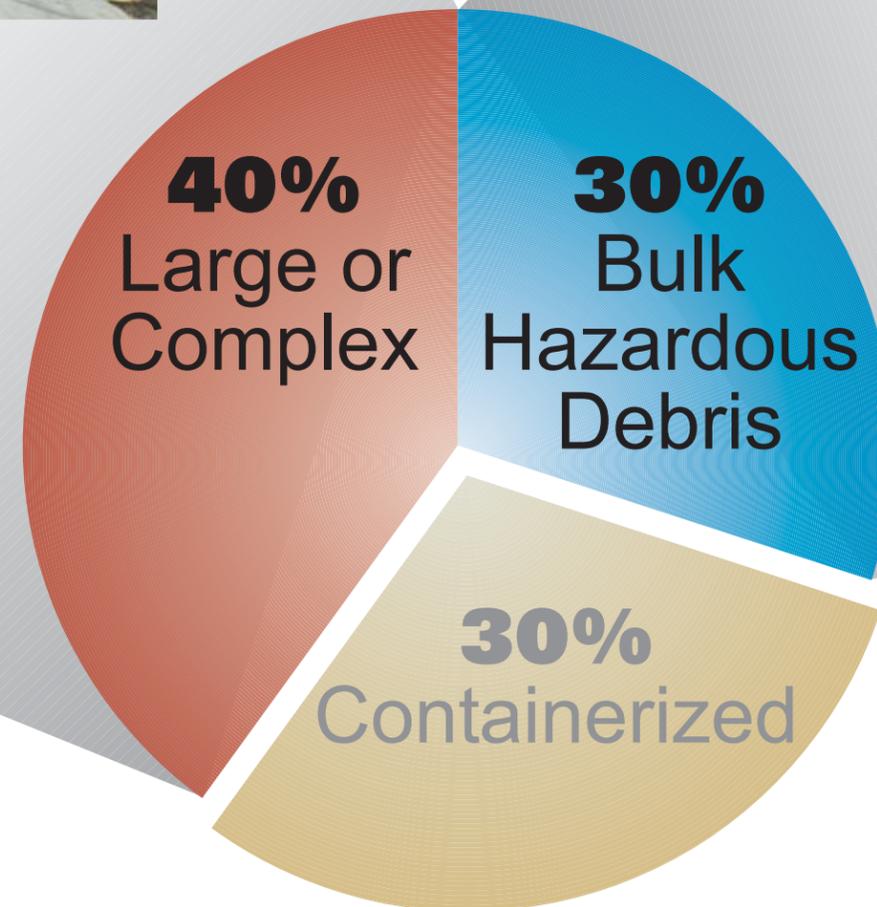


Small Percentage of Waste Received at ERDF Requires Macroencapsulation



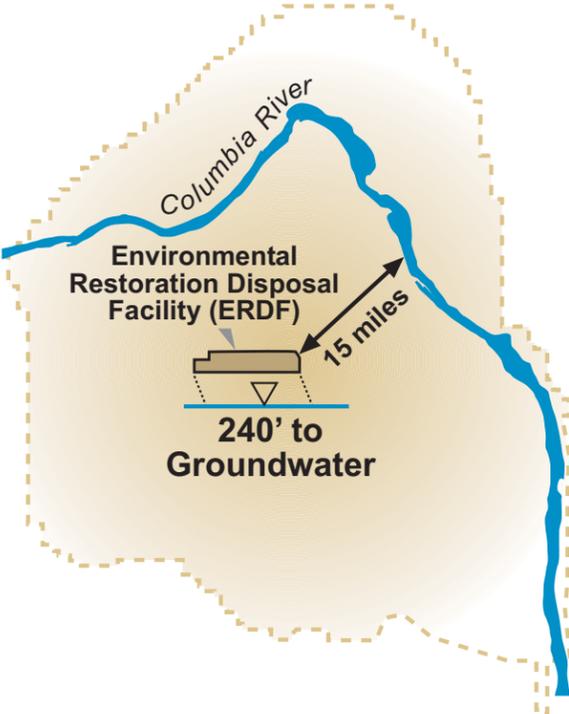
Small Percentage of Waste Received at ERDF Requires Macroencapsulation



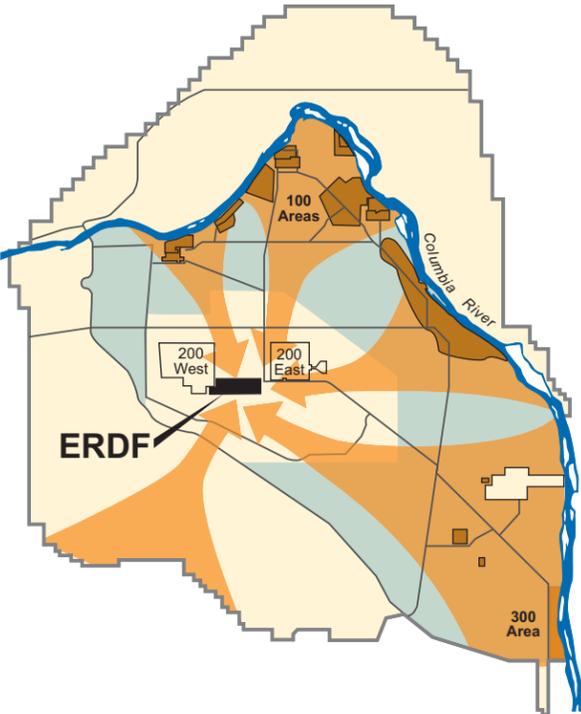
3,000 cubic yards of hazardous debris from the 324 Building alone will be disposed at ERDF. The 324 Building is a cat-2 nuclear facility that poses extensive and hazardous disposal challenges.

ERDF's Unique Combination of Characteristics

Distance to Surface and Groundwater



Hanford On-Site Waste Only



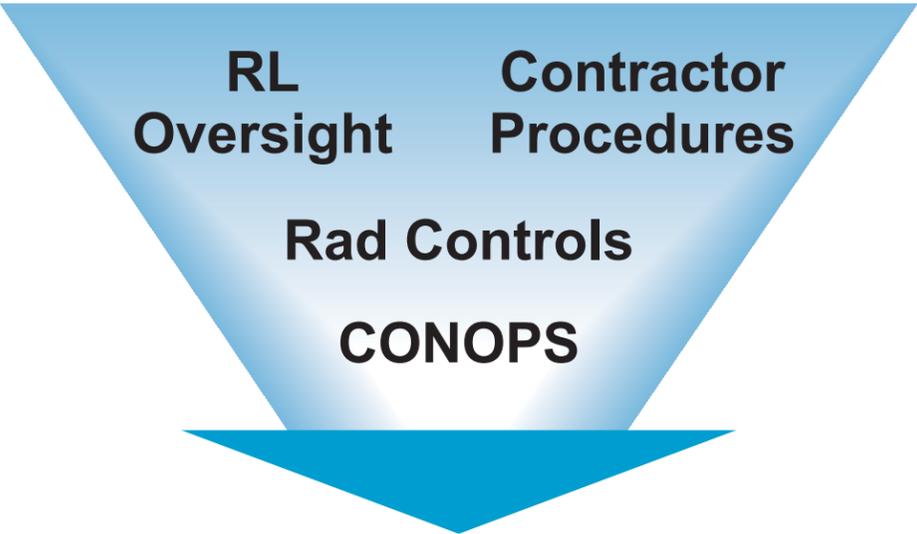
Arid Environment



- ~7" annual precipitation
- 25-year/24-hour design storm = 1.28" rainfall

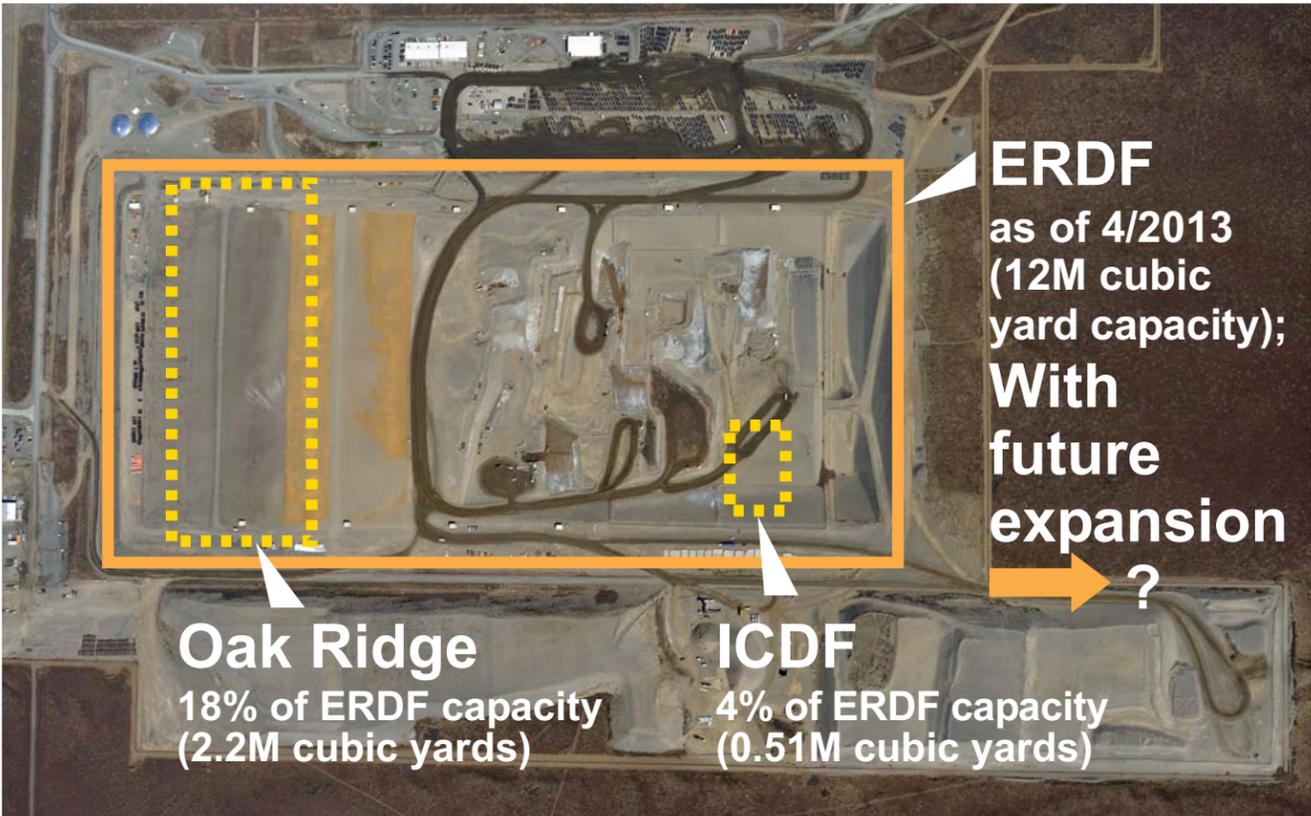


Disciplined Process to Disposal



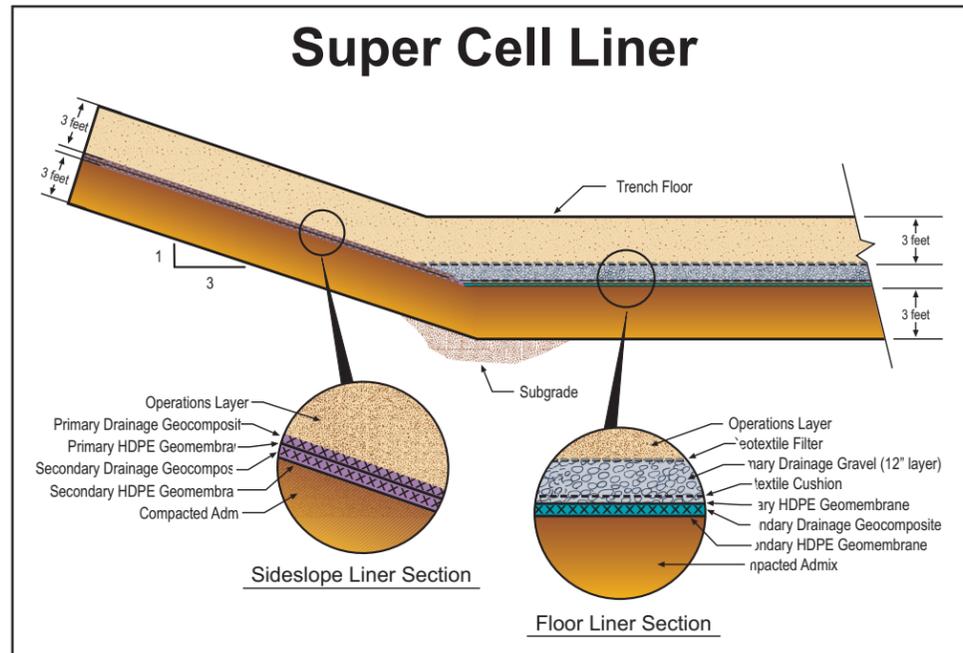
DOE Disciplined Operations

Large Size and Scale of Operations

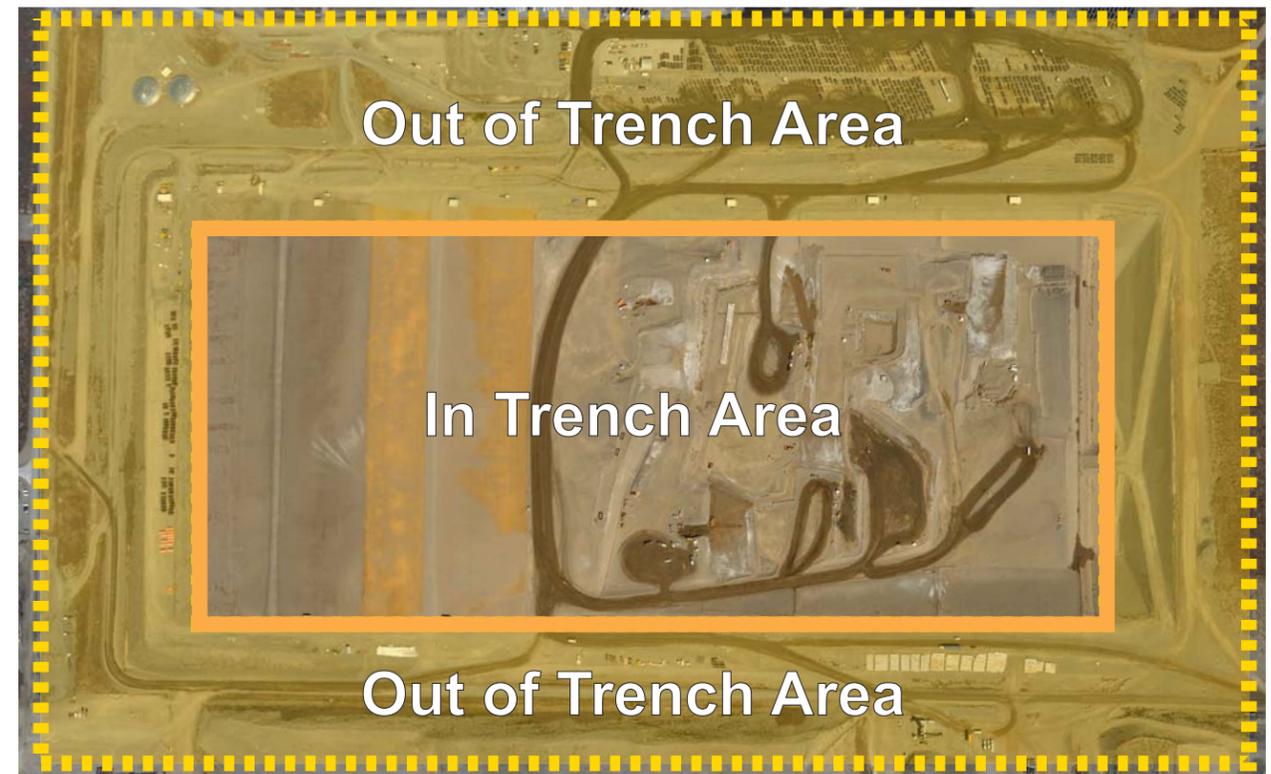


In-Trench Treatment Advantages

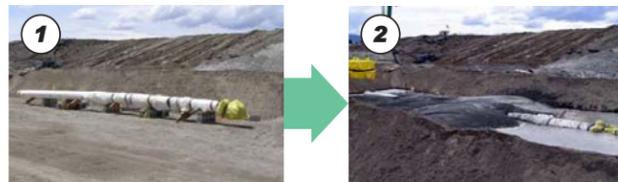
Reduced potential for contaminant migration



- Double liner system
- Increased distance to facility boundary - less possibility of contaminant migration into environment or outside boundary

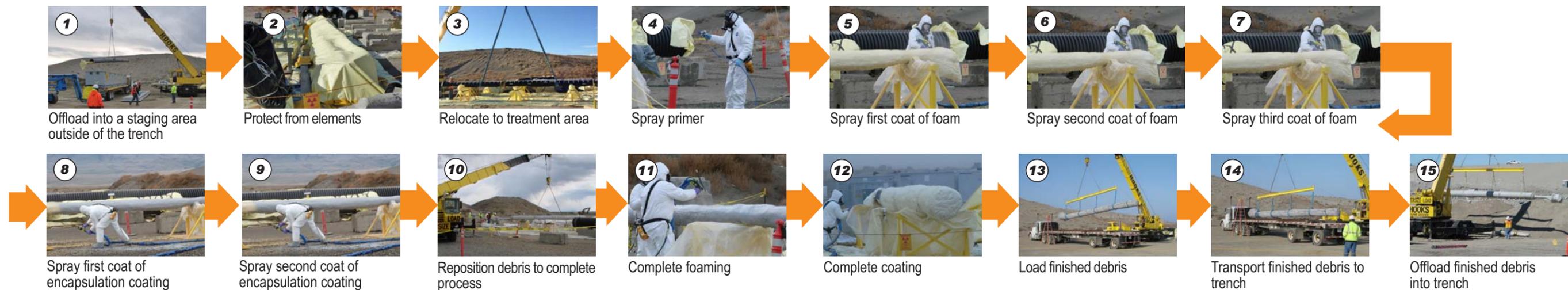


In-Trench Treatment



- Length of time with in-trench treatment: **Less than one week**
- Length of time with out-of-trench treatment: **Months and weather-dependent**

Out-of-Trench Treatment



Additional Treatment Steps Multiply Risks to Workers and the Environment



Industrial Risks

- Increased crane use
- 1 lift/load for in-trench vs. 5 lifts/load for out-of-trench



Chemical Risks

- Added chemical exposure pathway
- Additional respiratory protection needed
- Exposure time while spraying chemicals increased



Radiological Risks

- Longer staging time increases worker exposure
- Close proximity to contaminated waste

Simplified Operations

- In trench treatment uses one method (grout) for all waste forms
- Waste is never moved post-treatment – preserves integrity of macro
- Waste handling is at absolute minimum – *one* time
- Room to spread out
 - Not confined to small operations areas
 - Workers not in proximity of waste
 - More ALARA
- Less expensive – More \$\$ available for cleanup

Summary

In trench treatment is more protective of people and the environment, as well as less expensive.