

Hanford Cleanup Briefing  
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# Hanford Town site



# Operating History

- ▣ Began production in the early 1940s
- ▣ Fuel fabrication and R&D near Richland (300 Area)
- ▣ 9 production reactors along the Columbia (100 Area)
- ▣ Fuel processing in the Central Plateau (200 Area)
- ▣ Site listed on the Superfund National Priorities List (NPL) in 1989
- ▣ Federal Facility Agreement (Tri-Party Agreement) signed by the Department of Energy, the Environmental Protection Agency and the State of Washington in May of 1989

# *Hanford Site Map*



# Scope of the Cleanup

- ▣ Contaminated buildings and structures
- ▣ Spill/release sites
- ▣ Liquid disposal sites
- ▣ Solid waste burial grounds
- ▣ 53 million gallons of tank waste
- ▣ Legacy Special Nuclear Material
- ▣ Extensive groundwater contamination
- ▣ Releases to the Columbia River
- ▣ Radiological and chemical contaminants

# Cleanup Mission Strategy

- ▣ Efforts on protection of the Columbia River, including removal of source material and groundwater restoration
- ▣ 2015 vision
- ▣ Understand the nature and extent of contamination across the site to make sound cleanup decisions
- ▣ Construct the Waste Treatment Plant and manage tank waste safely

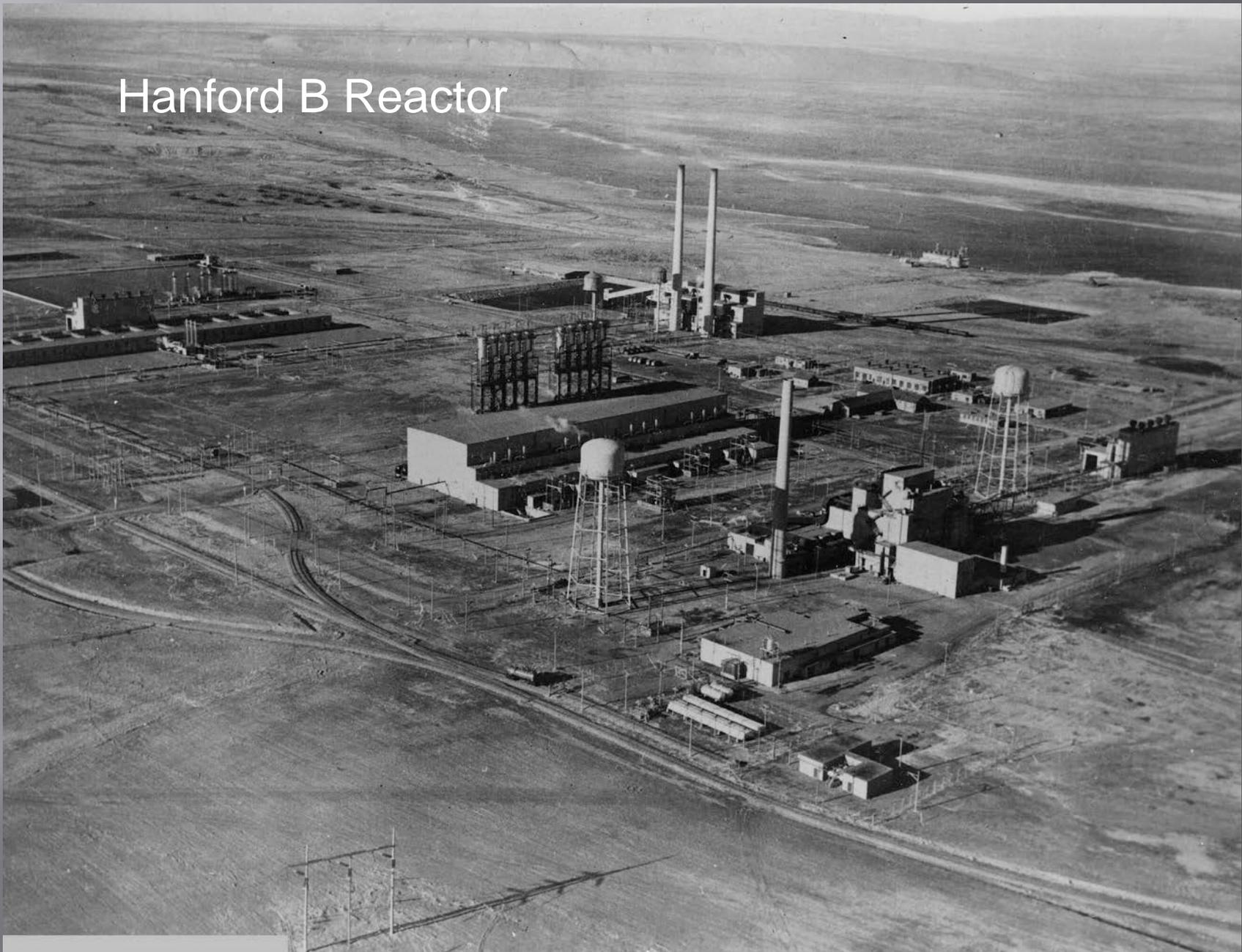
# Hanford 300 Area during operations



# 300 Area in 2010



# Hanford B Reactor



# Reactor interim safe storage



# 100 Area soil remediation



# 100 BC Cleanup



# Environmental Restoration Disposal Facility - ERDF





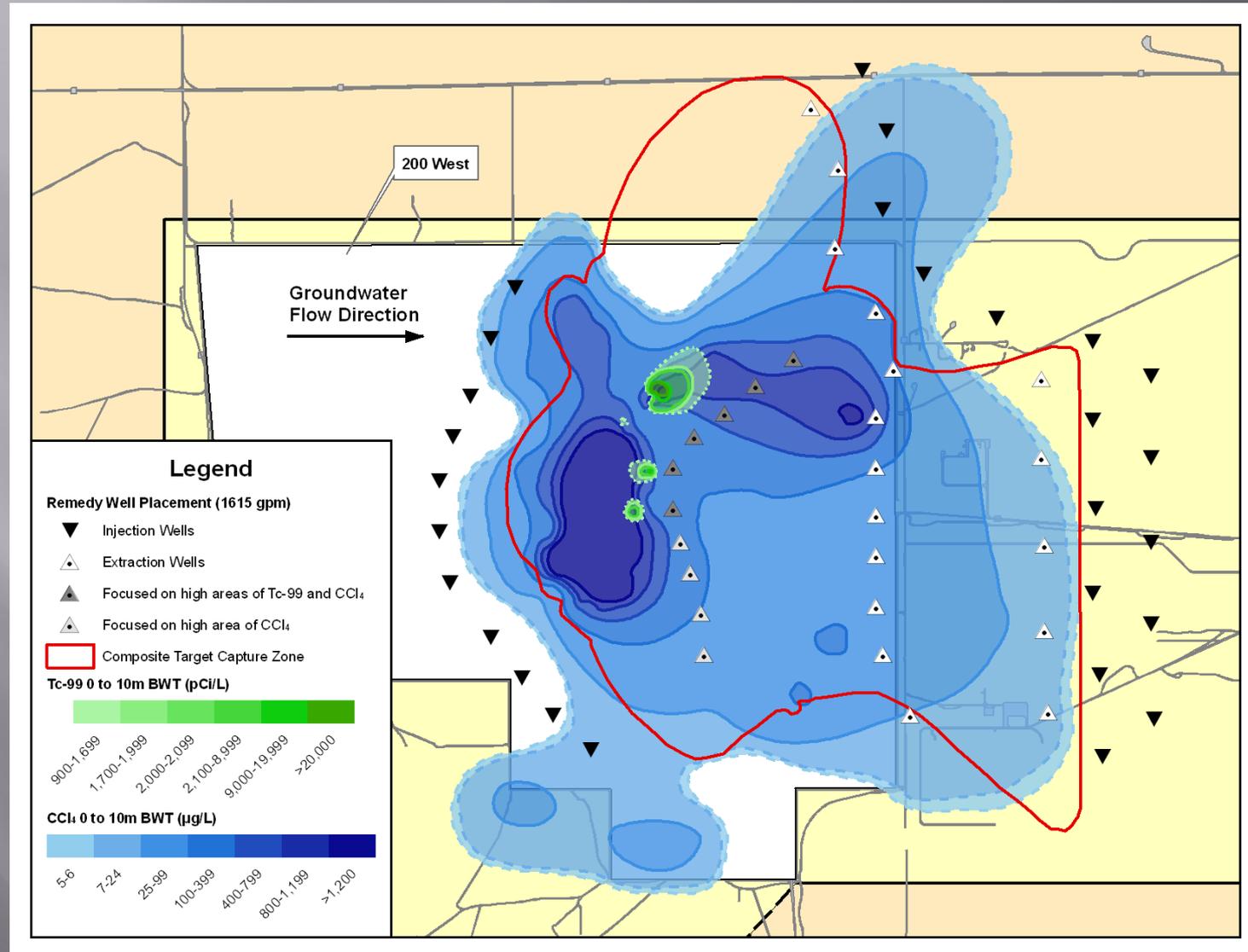
# PFP before demolition



# Plutonium "button"



# Carbon Tetrachloride Groundwater Plume emanating from PFP



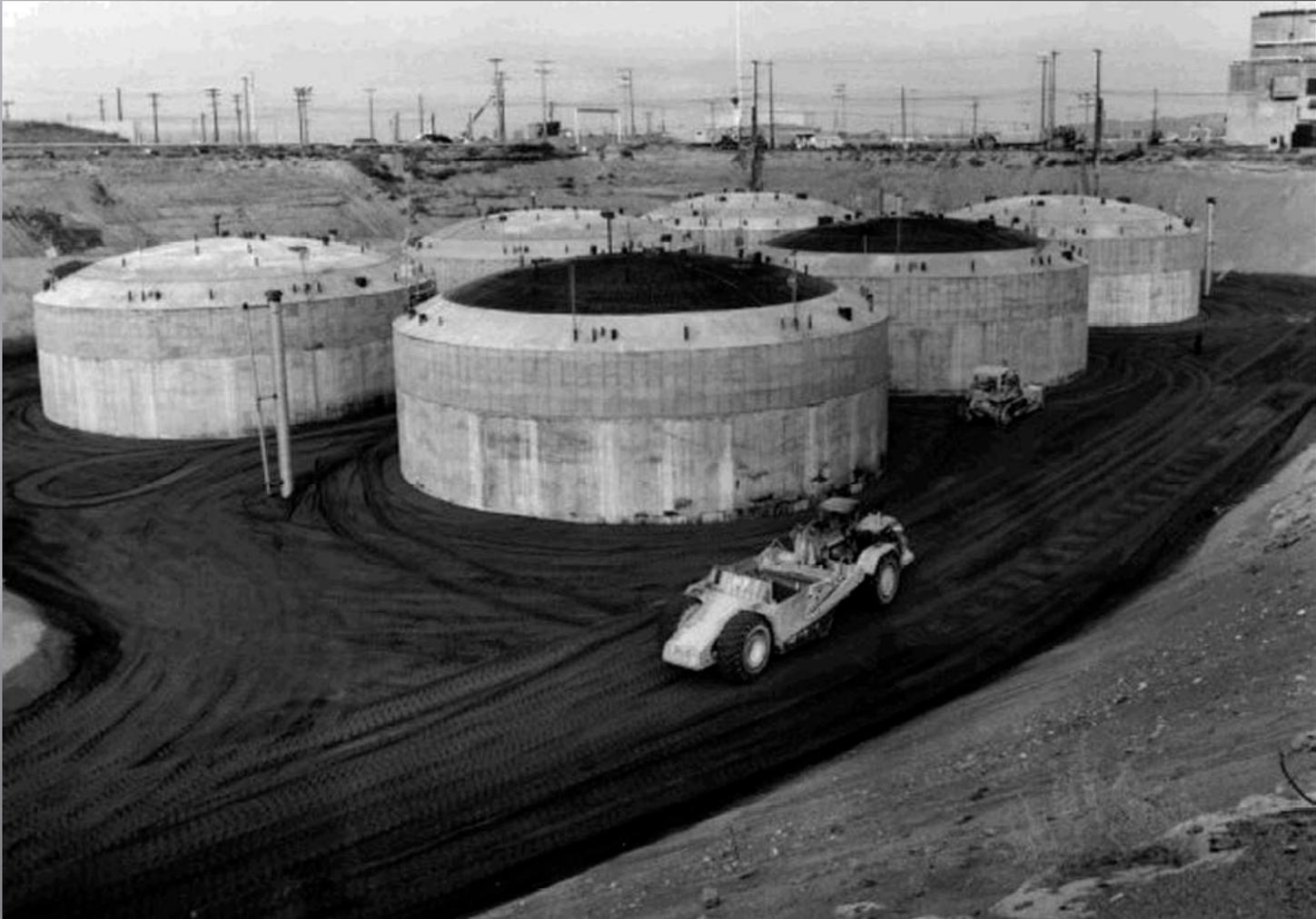
# Vapor extraction system for Carbon Tetrachloride in soils



# New groundwater treatment facility for Carbon Tetrachloride and other contaminants



# Tank farm construction



# Hanford Waste Treatment Plant construction



# Issues on the Horizon

- ▣ K Basin sludge removal and treatment
- ▣ Deep vadose zone characterization and cleanup
- ▣ Vit Plant construction and operation
- ▣ Tank leaks and tank closure
- ▣ Groundwater restoration
- ▣ Budget and schedule

