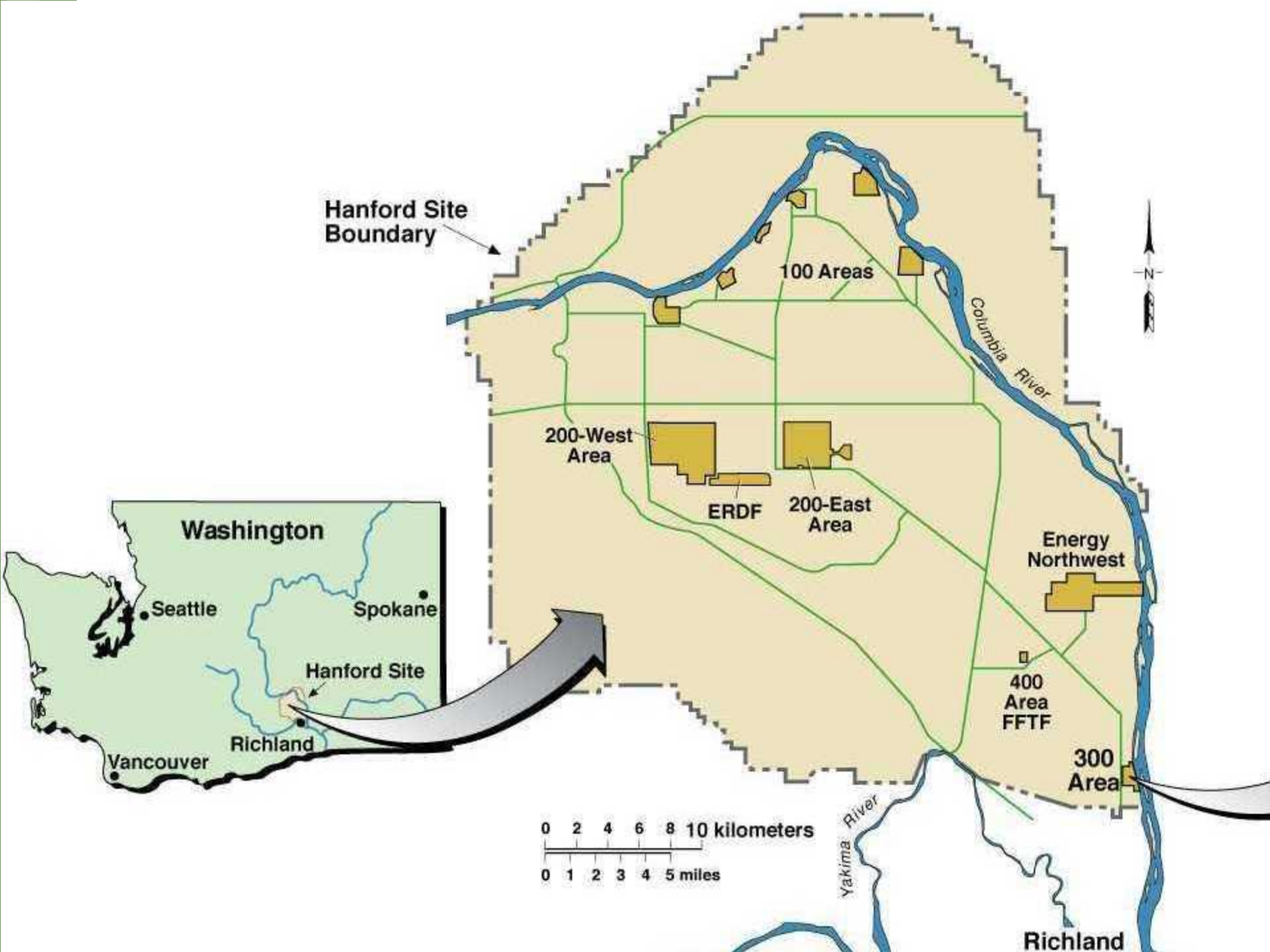




Oregon Perspective on the Hanford Nuclear Cleanup

Ken Niles, Nuclear Safety Division Administrator

OREGON DEPARTMENT OF ENERGY

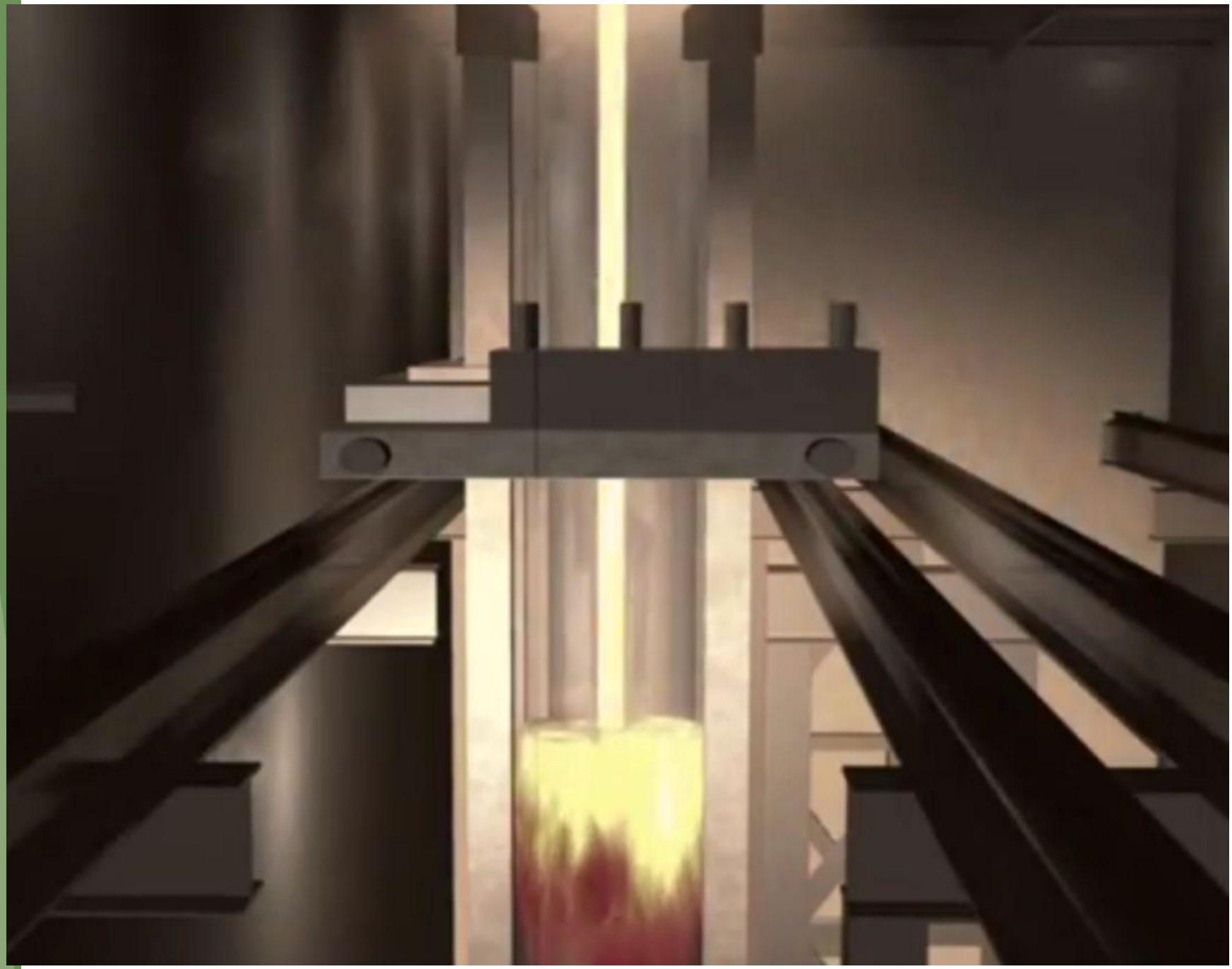

Hanford Site Boundary
100 Areas
Columbia River
N
200-West Area
ERDF
200-East Area
Energy Northwest
400 Area FFTF
300 Area
Washington
Seattle
Spokane
Hanford Site
Richland
Vancouver
0 2 4 6 8 10 kilometers
0 1 2 3 4 5 miles
Yakima River
Richland


YAMAHA
200
FISHINMISSION.NET

RADIOACTIVE


EAST TO
INTERSTATE 82
INTERSTATE 84
Pendleton
Portland
190
190
132
173
363
Reinke
Reinke


190
Reinke
Reinke
Reinke



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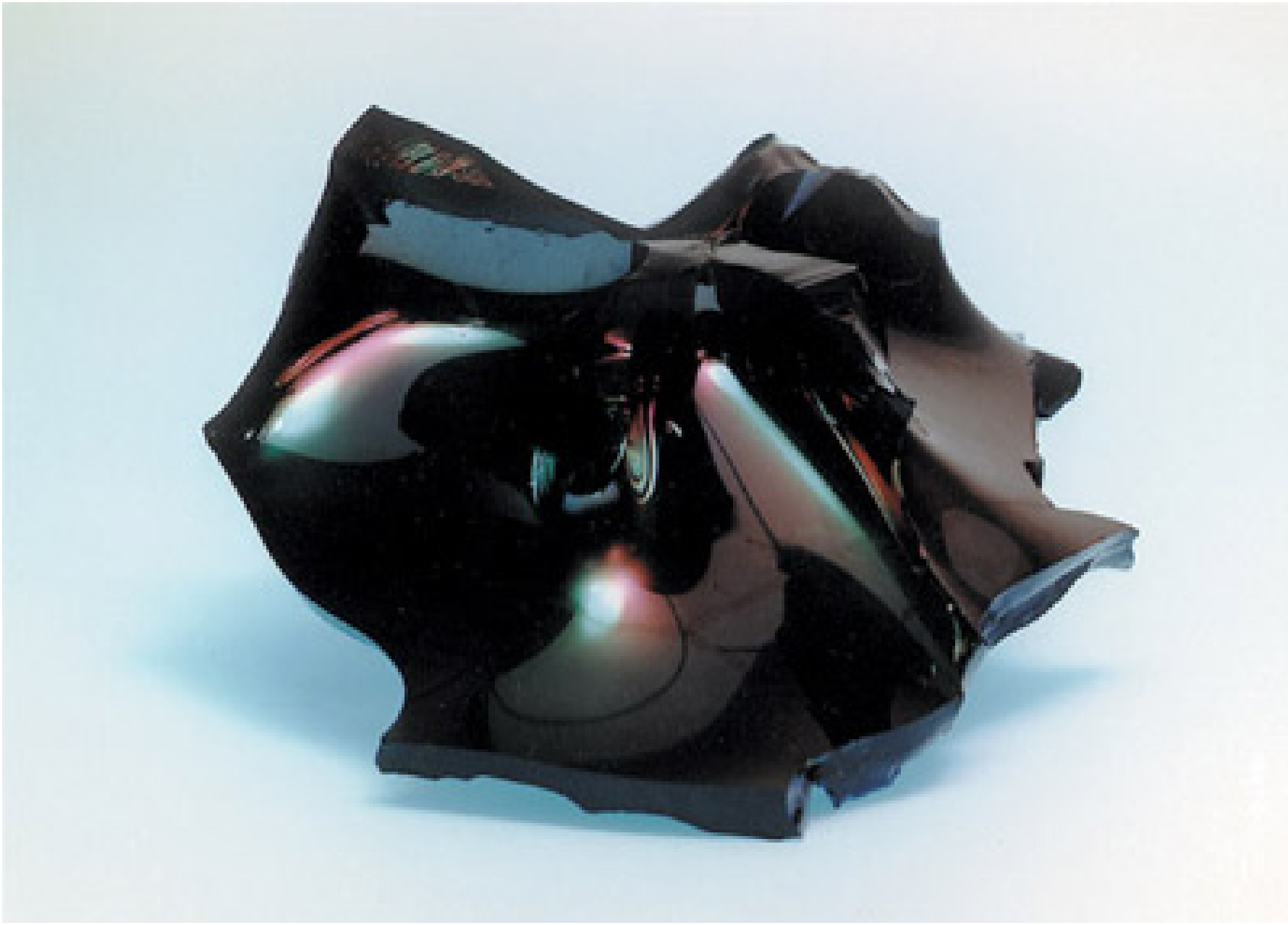
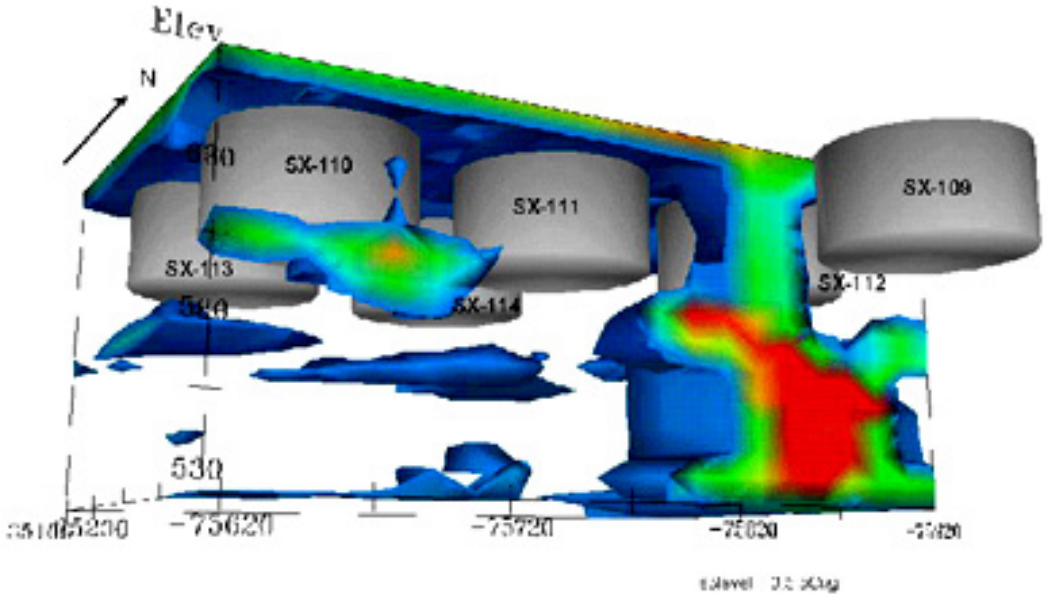
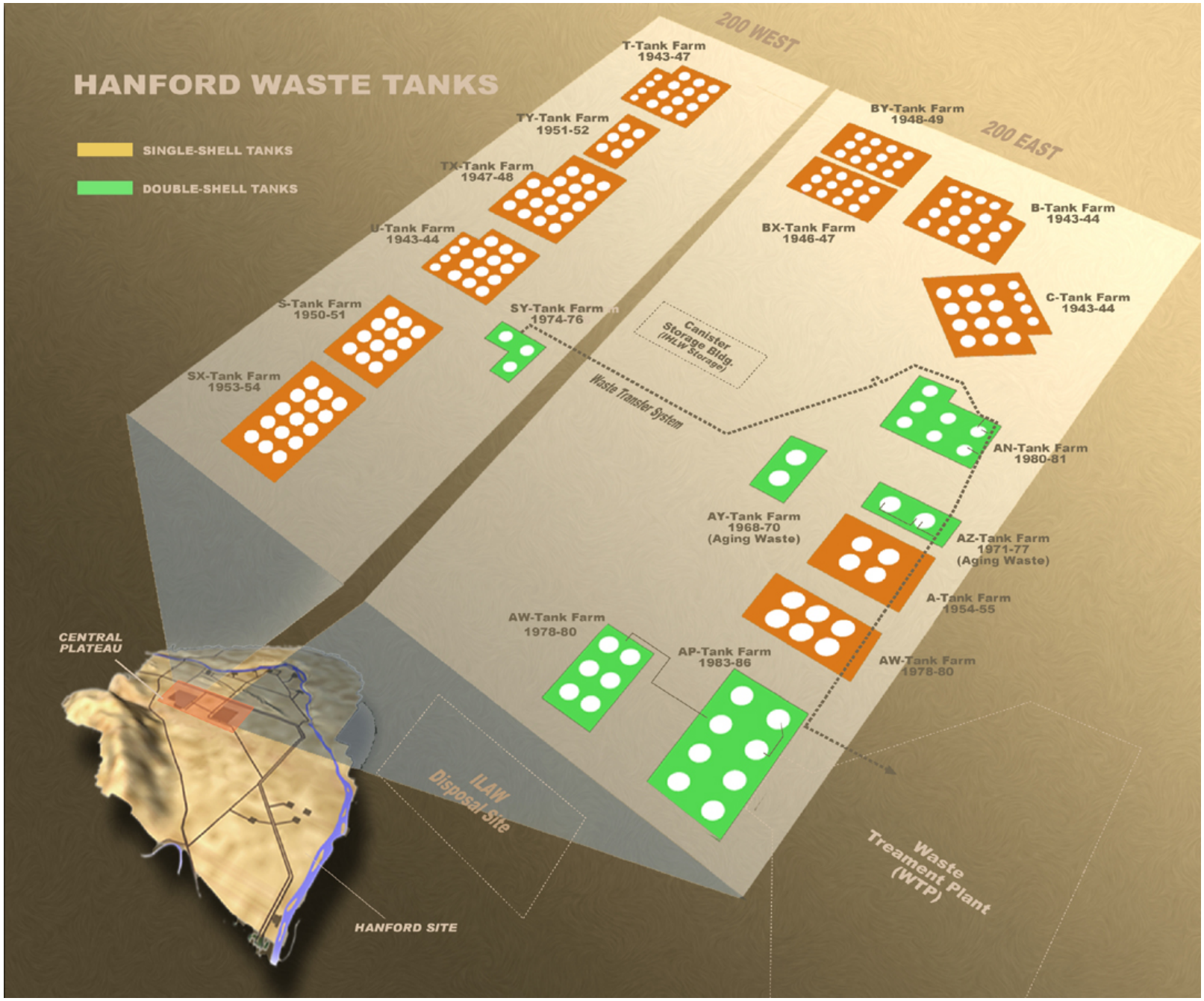


Waste of Concern at Hanford

Waste of Concern at Hanford

- ~ 1 million gallons of high-level waste that leaked or was spilled into the soil from ~69 single-shell tanks

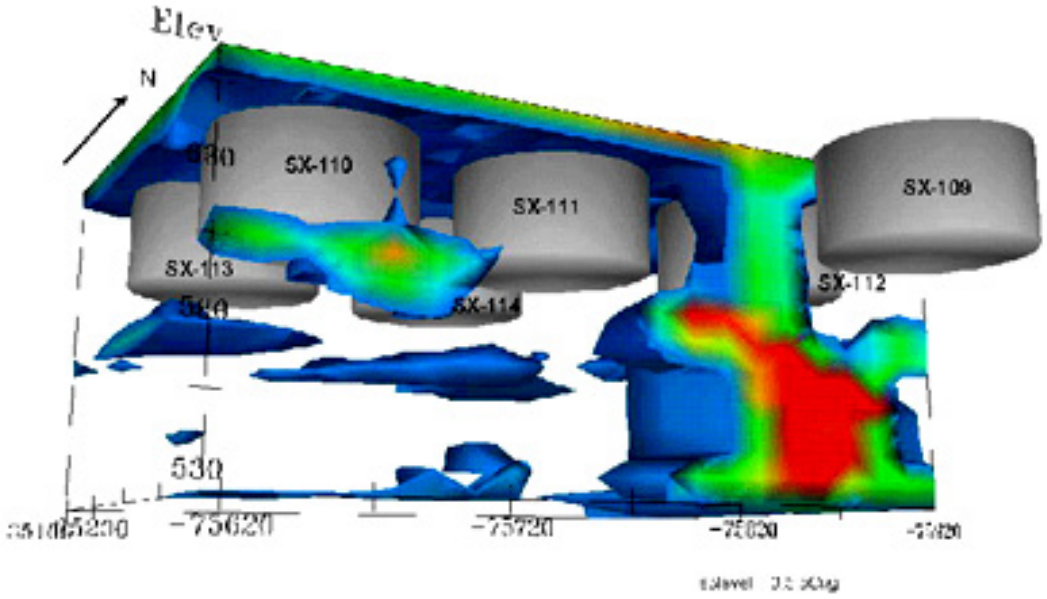



HANFORD WASTE TANKS
SINGLE-SHELL TANKS
DOUBLE-SHELL TANKS
200 WEST
200 EAST
T-Tank Farm
1943-47
TY-Tank Farm
1951-52
TX-Tank Farm
1947-48
U-Tank Farm
1943-44
S-Tank Farm
1950-51
SX-Tank Farm
1953-54
SY-Tank Farm
1974-76
Canister Storage Bldg. (IHLW Storage)
Waste Transfer System
BY-Tank Farm
1948-49
BX-Tank Farm
1946-47
B-Tank Farm
1943-44
C-Tank Farm
1943-44
AN-Tank Farm
1980-81
AY-Tank Farm
1968-70
(Aging Waste)
AZ-Tank Farm
1971-77
(Aging Waste)
A-Tank Farm
1954-55
AW-Tank Farm
1978-80
AP-Tank Farm
1983-86
AW-Tank Farm
1978-80
ILAW Disposal Site
Waste Treament Plant (WTP)
CENTRAL PLATEAU
HANFORD SITE


Final Tank Closure and Waste Management
Environmental Impact Statement for the
Hanford Site, Richland, Washington
Volume 1
Volume 2

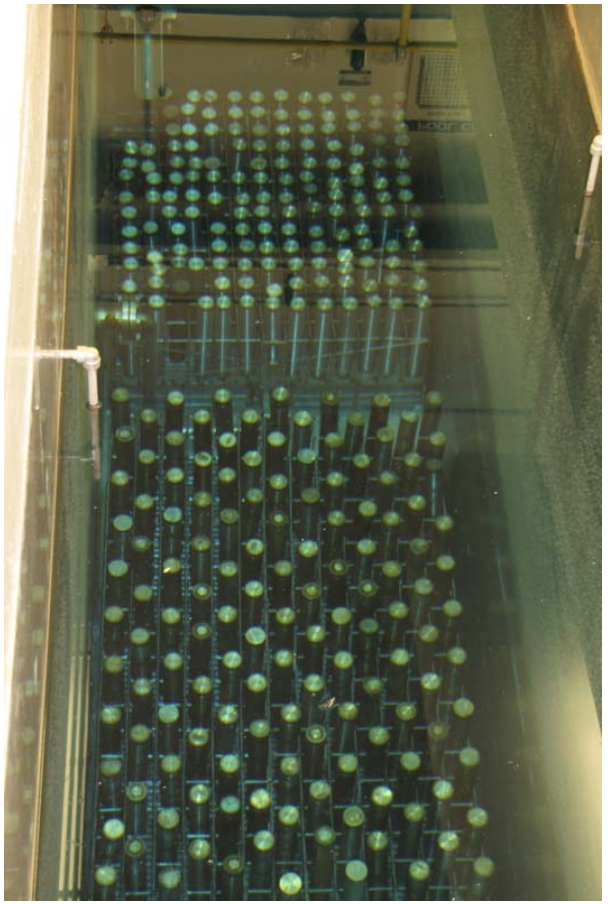
Waste of Concern at Hanford

- Leaked waste in the soil is still high-level waste – the act of leaking from a tank did not result in removal of key radionuclides



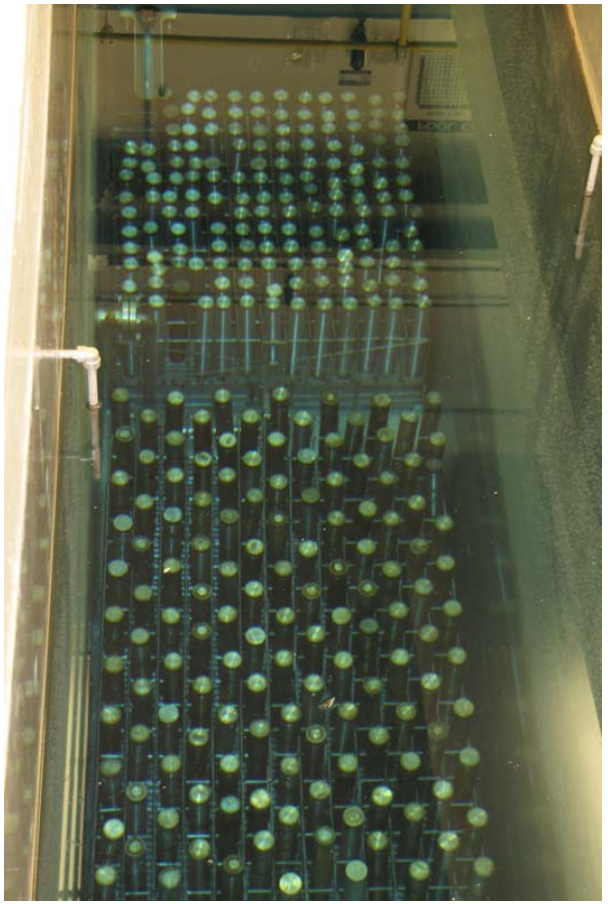
Waste of Concern at Hanford

- 1,335 canisters of cesium
- 601 canisters of strontium
- ~ 100 million curies



Waste of Concern at Hanford

- Direct disposal ?
- Blend into HLW stream?
- Storage to allow decay and eventual shallow land disposal ?



Waste of Concern at Hanford

- “High-heat” logs intended for German repository studies
- High-level waste – should go to a repository