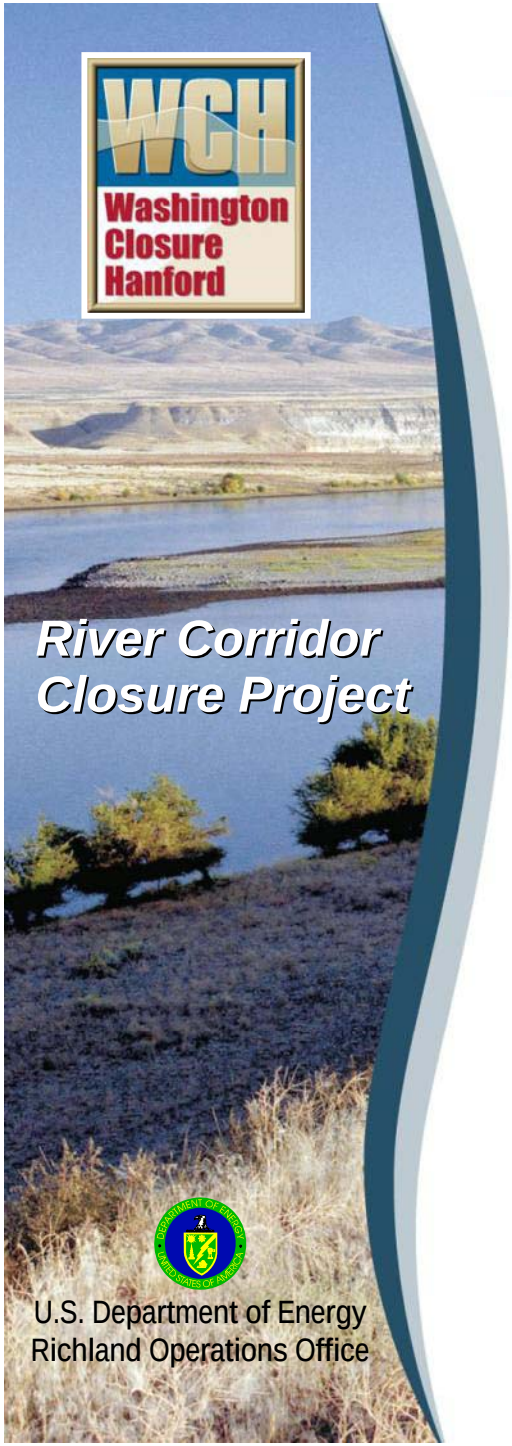


River Corridor Closure Project Update

HAB River and Plateau Committee

Mark French, DOE-Richland

June 8, 2011

U.S. Department of Energy
Richland Operations Office

618-10 Burial Ground

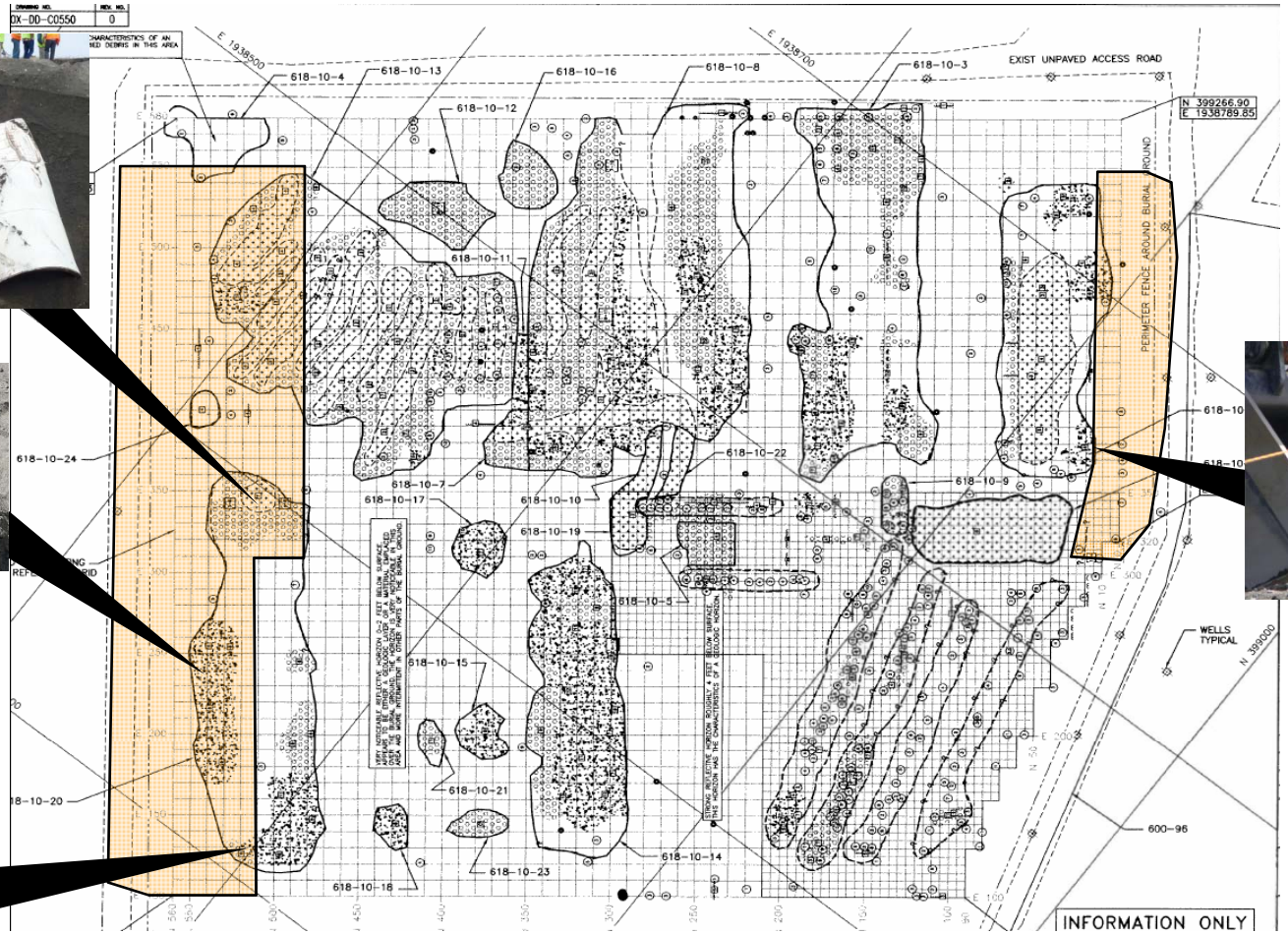
- Trench remediation excavation started April 18, 2011
- Two operating work areas at the site, with two excavation crews
- Excavated 24,400 cubic meters as of June 2
- Anomalies uncovered:
  - 18 drums
    - Concrete drum
    - Oils
    - Miscellaneous debris
  - 36 bottles
    - Liquid yet to be analyzed
  - 4 uncharacterized anomalies

618-10 Burial Ground

Large steel tank

- Numerous bottles encountered
- Container of ion exchange resin wrapped in lead

Drums:
1 powder
2 concrete



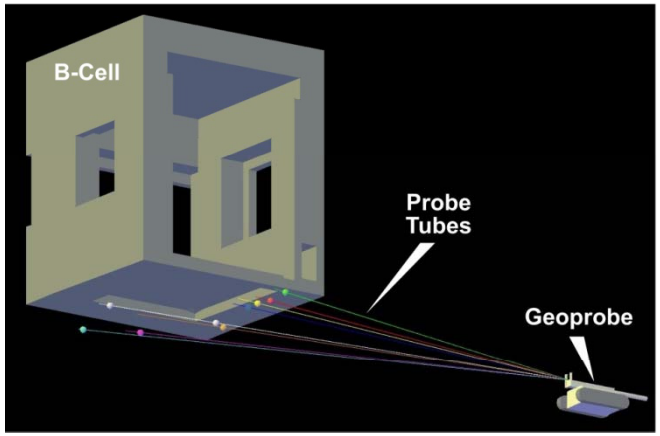
2 Drums:
1 oil with Uranium
1 misc trash

618-11 Non-Intrusive Characterization

- Completed geophysics field activities and confirmed 5 caissons and 50 vertical pipe units (VPU)
- Installed 2 cone penetrometers at each VPU in support of gross gamma characterization
- Characterized 32 VPUs to date
  - Highest "hot spots" encountered to date were 2.4R/hr, 1.3R/hr, and 1 R/hr (gross gamma) with all others in the mR/hr range
  - Scheduled to finish with characterization field activities by end of June 6/21/11
  - Characterization report to be issued the end of August

324 Building

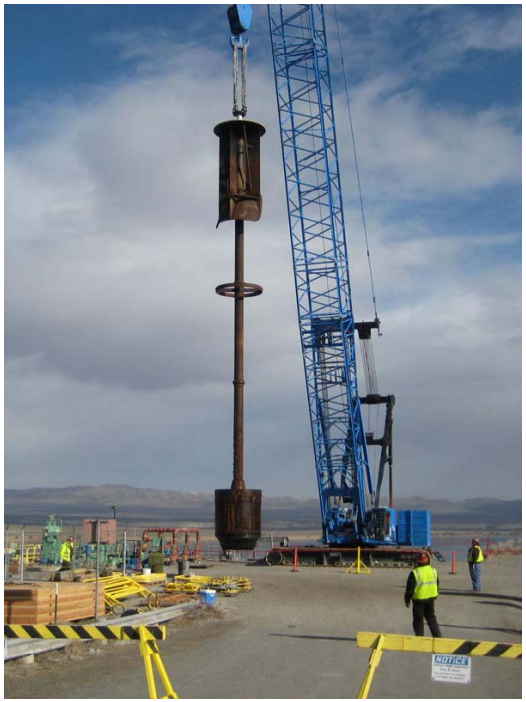
- Mock-up activities for collecting physical soil samples complete
- Work package and supporting documents being finalized for sampling activity
- Planning to retrieve physical soil sample below 324 Building by the end of June – analysis to be performed at the 325 Laboratory (PNNL)
  - Lab results expected in the fall



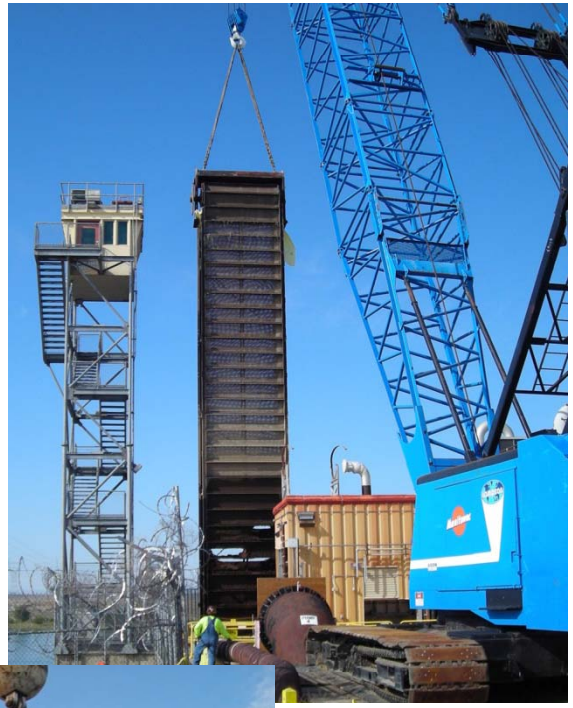
N Reactor

100N River Structures

- Briefings with regulators and consulting agencies have been ongoing and proceeding positively for a demolition strategy at N Reactor
- Anticipate biological opinions on the proposed project from consulting agencies by the end of June



100N River Structures



- Sediment contamination inside the river structure will be removed this summer
- Installation of a bench around the N Reactor river structures is scheduled to begin in August (designated period allowed for in-water work), water level permitting
- Final grading/contouring of areas is scheduled for end of August 2012
- TPA milestone M-93-20, due September 30, 2012