

300 Area



John Howieson,
Issue Manager Presentation
Sept. 4, 2013

Public Comment Period: July 15 – August 16, 2013

Public Meetings:

Tuesday, July 30, 2013 5:30 – 8:30 p.m. Richland Public Library 955 Northgate Drive Richland, WA

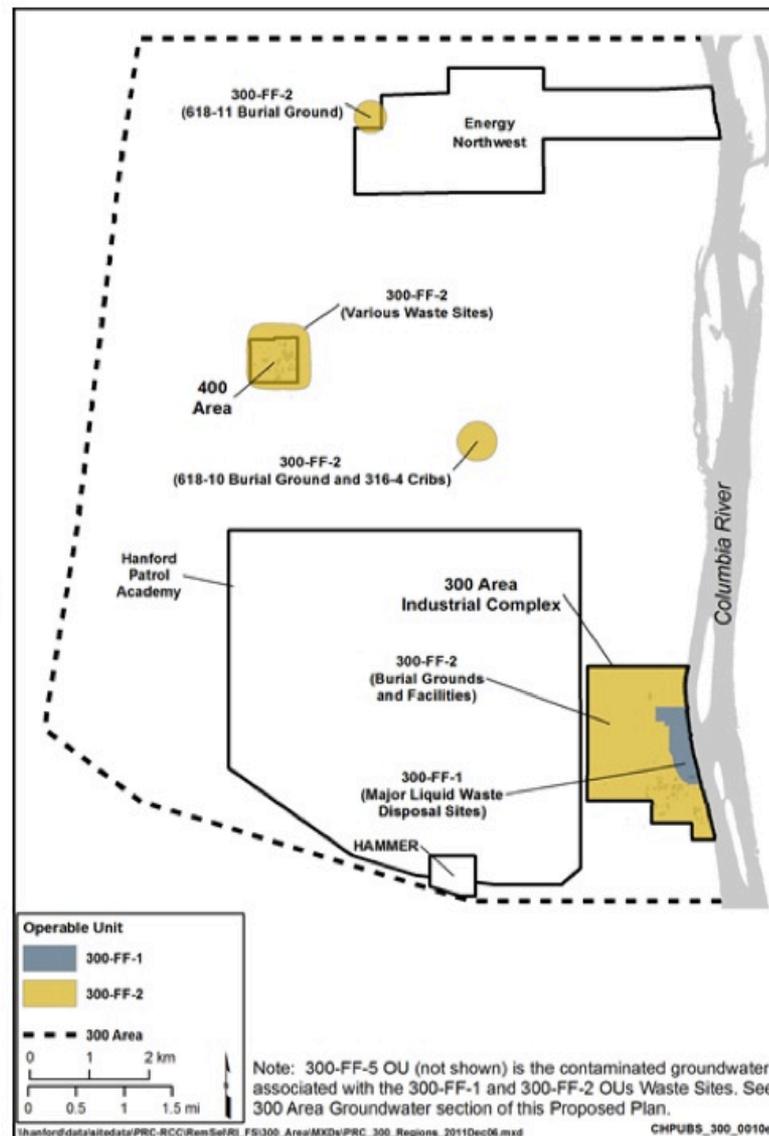
Wednesday, July 31, 2013 6–9p.m.

University Heights Center
5031 University Way NE Seattle, WA

Thursday, August 8, 2013 6–9p.m.

Best Western Hotel
1108 E Marina Dr. Hood River, OR

- 552 potential waste sites identified in 300 Area
 - 275 sites not accepted during waste site evaluation process
- 277 Waste Sites in 300-FF-1 and 300-FF-2 OUs
 - 122 wastes site recommended for no further action (final or interim closed)
 - 155 waste sites evaluated in feasibility study



Methods

Contaminated soil removal, referred to as removal, treatment, and disposal (RTD)

Monitored Natural Attenuation (MNA) in groundwater contamination. MNA is the decrease of contamination through natural processes such as decay, oxidation, or biodegradation.

Enhanced attenuation by applying a binding solution to reduce the movement of contamination to groundwater

Groundwater monitoring

Institutional Controls (ICs) to control access to residual contaminants in soil and groundwater as long as they exceed the cleanup levels established in the Record of Decision (ROD) associated with this Proposed Plan. ICs include such things as signage, deed and zone restrictions, and permits.

Alternative 1

No Action

Alternative 2

RTD at Waste Sites; MNA, Groundwater Monitoring; and Institutional Controls

Alternative 3

RTD at Waste Sites; Phased Approach for Implementation of Uranium Sequestration (binding) in the Vadose Zone (the soil between the surface and groundwater), Periodic Rewetted Zone (PRZ) and Top of the Aquifer; MNA; Groundwater Monitoring; and ICs. PRZ refers to the area in the deep vadose zone where the groundwater fluctuates due to changes in the river.

Alternative 3a (preferred Alternative)

RTD at Waste Sites; Focused Deep RTD in the Vadose Zone and PRZ; Uranium Sequestration in the Vadose Zone, PRZ, and Top of the Aquifer; MNA; Groundwater Monitoring; and ICs

Alternative 4

RTD at Waste Sites; Extensive Deep RTD in the Vadose Zone and PRZ; MNA; Groundwater Monitoring; and ICs

Alternative 5

RTD at Waste Sites; Enhanced Attenuation for Uranium in the Vadose Zone and PRZ; MNA; Groundwater Monitoring; and ICs

Risk Assessment/PRGs (Prelim. Remed. Goal)

- Human Health: same approach used for 100-K RI/FS Document. Only **difference is the introduction of an industrial worker exposure scenario** and associated evaluations
- Ecological: same approach used for 100-K RI/FS Document
- PRGs: two sets are presented for industrial and unrestricted areas

1. How do we characterize cleanup levels and how could we make this information more publically accessible?
2. Who plays a role in determining “how clean is clean” or “how dirty is acceptable?”
3. How do different standards apply to protect water, air, and soil?
4. What standards and regulations play a role in setting cleanup levels?
5. How do current and reasonably anticipated future land uses and exposure scenarios play a role in setting cleanup levels?
6. How do we talk about cleanup levels for specific contaminants?
7. What health effects are we preventing by having protective cleanup levels? How is this communicated?
8. How are exposure pathways linked together?
9. How are other organisms protected, other than humans, when cleanup levels are set?
10. How do the properties of contaminants; how they move in the environment, uptake in organisms, time-span for damage (how long they stay in or pass through an organism) play into how cleanup levels are set?
11. What are some examples we could look at to explore more effective ways of talking about cleanup levels?
12. How do we get more meaningful input on cleanup levels?
13. What points in decision process allow for input on how cleanup levels are set?
14. What are HAB constituencies saying about cleanup levels?

EPA and DOE are requested to give a quick overview of the estimated attendance at each meeting and a brief statement about the nature of the questions, comments, and issues they noted at these meetings.

