

# ENVIRONMENTAL Fact Sheet



*Hanford Superfund Site, Washington*  
U.S. Environmental Protection Agency, Region 10

June 2007

## Hanford Five-Year Review Report Completed

In March of 2007, the U.S. Department of Energy (DOE) issued revision 1 of The Second CERCLA Five-Year Review Report for the Hanford Site. For Superfund cleanups where contaminants remain in place, the lead agency is required to review actions at a minimum of every five years after the initiation of the selected remedial action. The review determines if the actions authorized by Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) decision documents are still successful in protecting the worker, the public and the environment. The next Hanford five-year review is due by May of 2012. Ongoing waste management activities, active treatment, storage and/or disposal facilities or tank farm operations regulated under the Resource Conservation and Recovery Act (RCRA) were not included in this CERCLA review. EPA has concluded its review of DOE's five-year review report and issued a letter of concurrence regarding the protectiveness determinations made within the report.



In most cases, EPA concurs with the conclusions in the report submitted by DOE; however, EPA has made independent determinations regarding the protectiveness of a number of the selected remedial actions for the operable units at Hanford. These EPA determinations concur with, clarify, or replace protectiveness statements made by DOE in the five-year review report.

### **For More Information**

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You can read *The Second CERCLA Five-Year Review Report for the Hanford Site* on either the EPA or DOE website for Hanford, both listed below. The websites also have EPA's concurrence letter and supporting documentation posted on them.

Visit the EPA Website: [www.epa.gov/r10earth/](http://www.epa.gov/r10earth/)  
click on "Index," then click on "H" for Hanford, Washington Superfund

Visit the DOE Website: [www.hanford.gov/](http://www.hanford.gov/)  
Under the "Public Involvement" heading, click on "CERCLA Five-Year Review"

### **Protectiveness Determination - Not Protective**

DOE made a protectiveness determination of “not protective” for both the strontium-90 plume at 100-NR-2 and the uranium plume at the 300-FF-5 operable unit. At both of these sites, the remedial action objectives established in the Records of Decision (RODs) are not being met. EPA concurs with these determinations.

### **Protectiveness Determination - Will be Protective**

The 100-HR-3 and 100-KR-4 operable units have groundwater contaminated by chromium. Both DOE and EPA expect that the selected remedies of source control, pump-and-treat, and chemical reduction will be protective when fully implemented.

### **Protectiveness Determination - Protectiveness Deferred**

For many of the operable units in the river corridor (100 Area and 300 Area National Priorities List [NPL] sites) where contaminated soil is being removed, DOE chose to defer making protectiveness statements at this time. EPA concurred with the deferrals but required DOE to issue protectiveness statements for these operable units by February of 2008, in accordance with a new action item:

**Action 1-3:** Reassess and resubmit to EPA the protectiveness determinations for operable units 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-HR-3, 100-IU-2, 100-IU-6, 100-KR-1, 100-KR-2, 100-KR-4, 100-NR-1, 300-FF-1, and 300-FF-2 using new information from the River Corridor Baseline Risk Assessment and submit to EPA an Addendum with, as appropriate, updated Protectiveness Determinations, Issues, and Follow-Up Actions.

EPA has also developed two additional action items to focus on obtaining a strategy for the final cleanup of the river corridor, which are:

**Action 2-2:** Reach agreement between the Tri-Party Agencies on a strategy and schedule to obtain final records of decision in the river corridor.

**Action 2-3:** Submit a TPA change package with new milestones for submitting RI/FS workplans and proposed plans for all operable units in the river corridor. New milestones shall require submission of RI/FS workplans and proposed plans for final actions at all of the following operable units that do not already have these documents approved: 100-BC-1, 100-BC-2, 100-BC-5, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-FR-3, 100-HR-1, 100-HR-2, 100-HR-3, 100-IU-2, 100-IU-6, 100-KR-1, 100-KR-2, 100-KR-4, 100-NR-1, 100-NR-2, 300-FF-2, and 300-FF-5.

In the 200 Area, all but two of the operable units, 200-ZP-1 and 200-UP-1, had protectiveness statements deferred until the remedial investigation/feasibility study (RI/FS) process has been completed and RODs are issued.

### **Protectiveness Determination - Protective in the Short Term**

Interim actions at the 200-ZP-1 groundwater operable unit, treating for carbon tetrachloride, and the 200-UP-1 groundwater operable unit, treating for uranium and technetium-99, both have RODs for interim actions. There are no complete exposure pathways for human or ecological receptors at this time. The remedy is considered protective in the short-term but final remedies will need to be selected to ensure long term protection.

### **Protectiveness Determination - Protective**

The remedies selected for the four operable units in the 1100 Area NPL site have been completed and the remedial action objectives established in the final ROD have been achieved. These remedies are protective of human health and the environment. The 1100 Area has been deleted from the NPL.