



**In response to stakeholder requests, new public meeting date: July 23, 2014**

## Public Comment Period Begins for 100-F and Isolated Unit Area Cleanup

*The Hanford Tri-Party Agreement (TPA) agencies — the U.S. Department of Energy (DOE), the U.S. Environmental Protection Agency (EPA), and the Washington State Department of Ecology (Ecology) — request your input on the Proposed Plan for cleanup of contaminated sites and groundwater in the 100-F and Isolated Unit (IU) Area of the Hanford site in southeastern Washington state. The Proposed Plan presents cleanup options and identifies the preferred alternatives. The 60-day public comment period begins on June 9, 2014 and closes on August 11, 2014. The agencies have extended the comment period from 30 to 60 days in response to early stakeholder requests.*

### Background

Situated along the south bank of the Columbia River, the 100-F/IU Area is home to the cocooned F Reactor, built in the 1940s to produce plutonium for the Manhattan Project. The Reactor supported national defense missions until its shut-down in June 1965. The 20-plus-year operating life of F Reactor and its ancillary facilities generated large quantities of liquid and solid wastes contaminated with radionuclides and hazardous chemicals. The Isolated Unit Area is located between the reactor areas along the river and Central Plateau.

DOE and its cleanup contractors have demolished 112 facilities and removed 1.5 million tons of contaminated material as part of cleanup operations in the two-square-mile F Area and removed over 500,000 tons of contaminated material

### Public Involvement Opportunity

**WHAT:** Provide input on the **Proposed Plan** for cleanup of contaminated sites in the 100-F/IU Area along the Columbia River

**WHEN:** June 9 – August 11, 2014

**HOW:** Participate in the process by

- Commenting on the Proposed Plan available at [www5.hanford.gov/arpir/or](http://www5.hanford.gov/arpir/or) at public information repositories (see Page 4 for details)
- Participating in the public meeting

#### **\*\*NEW MEETING DATE**

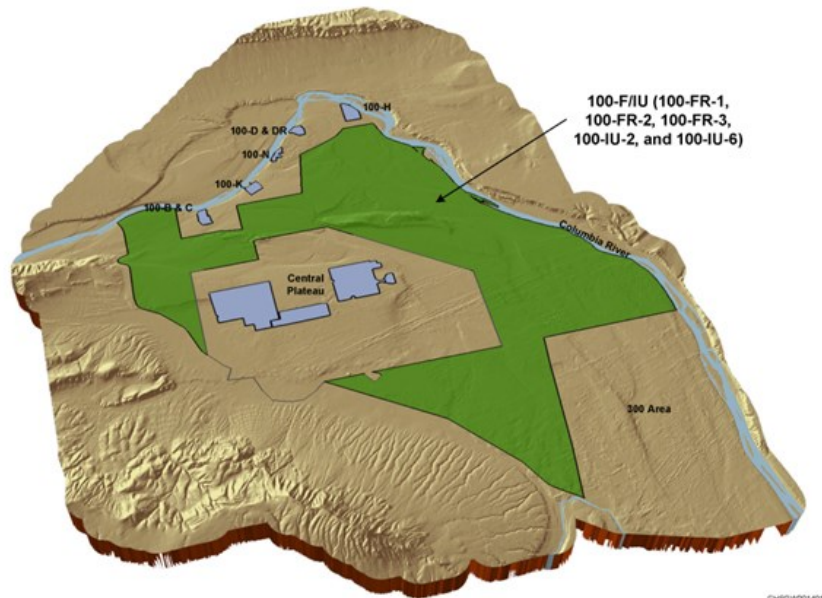
Wednesday, July 23 | 6 p.m.  
Best Western Hood River Inn  
1108 East Marina Way

from the IU areas. While substantial cleanup has been completed to remove contaminated structures and soils, additional work is needed.

The 100-F/IU Proposed Plan discusses remaining cleanup concerns in the area and proposes actions to address those concerns. The 100-F/IU Proposed Plan is the second of six long-term cleanup decisions planned for sites along the Columbia River.

## About the 100-F/IU Proposed Plan

DOE has developed a proposed plan under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) to address remaining soil and groundwater contamination in the 100-F/IU areas. The proposed plan addresses contaminated soil in four source operable units (OUs) (100-FR-1, 100-FR-2, 100-IU-2, and 100-IU-6) and contaminated groundwater in the 100-FR-3 OU. These five OUs are referred to collectively as 100-F/IU, depicted at the right. This is the second of six long-term cleanup decisions planned for sites along the Columbia River. The first of the six long-term decisions for cleanup along the Columbia River, the 300 Area Record of Decision, was issued in November 2013.



## Alternatives Evaluated

The proposed plan for soil presents two remediation options and identifies a preferred alternative. For groundwater, the proposed plan presents four remediation alternatives and also identifies a preferred alternative. Details for each alternative are presented on Page 3.

## Preferred Alternatives

Based on the results of the detailed and comparative evaluation, the following preferred alternatives are proposed:

### Soil

Alternative S-2 - removal, treatment, and disposal (RTD) and Institutional Controls (ICs) - is preferred. RTD is used to excavate contaminated soil from waste sites; ICs are used

to control access to residual contaminants in soil.

### Groundwater

Alternative GW-2 - Monitored Natural Attenuation (MNA) and ICs - is preferred. MNA is the decrease of contamination through natural processes such as radioactive decay, chemical stabilization, sorption or biodegradation. ICs prevent exposure to contaminated groundwater until cleanup is achieved.

The preferred alternatives are protective of human health and the environment, comply with applicable requirements, and are cost effective.

## Comment

Download the document from [www5.hanford.gov/arpir](http://www5.hanford.gov/arpir) or visit a public information repository (see Page 4).

Send your comments to:

Kim Ballinger  
U.S. Department of Energy  
Richland Operations Office  
P.O. Box 550, A7-75  
Richland, WA 99352

Email —  
[100FIUPP@rl.gov](mailto:100FIUPP@rl.gov)

Call —  
the Hanford Cleanup  
Hotline at 800-321-2008



## Attend \*\*NEW MEETING DATE

Join us for the public meeting:

Wednesday, July 23 | 6 p.m.  
Best Western Hood River Inn  
1108 East Marina Way  
Hood River, Oregon

6-6:30 p.m. – Open house

6:30-7:30 p.m. – Presentations

7:30-8:30 p.m. – Public comment

*A webinar will be held in conjunction with the meeting.*





**100-F/IU Area during Operations  
1945-1965**



**100-F/IU Area post Cleanup  
2012**



### Alternatives Evaluated

The proposed plan for soil presents two remediation options and identifies a preferred alternative. For groundwater, the proposed plan presents four remediation options and also identifies a preferred alternative.

	Alternative	Components	Timeframe	Cost
Soil	S-1 No Action	-	-	-
✓	S-2 Removal, Treatment, and Disposal and Institutional Controls		3-5 years	\$21 million
Groundwater	GW-1 No Action	-	-	-
✓	GW-2 Monitored Natural Attenuation and Institutional Controls	<ul style="list-style-type: none"> <li>• Natural Attenuation to reduce contaminants of concern</li> <li>• Institutional Controls to prevent exposure</li> <li>• Monitoring—additional wells to track cleanup progress</li> </ul>	Chromium — 35 years Strontium-90 — 150 years Nitrate — 80 years Trichloroethene — 50 years	~\$36 million
	GW-3 Pump and Treat with In-Situ treatment and Monitored Natural Attenuation	<ul style="list-style-type: none"> <li>• Pump and treat system in source area with in-situ treatment of nitrate, chromium and trichloroethene</li> <li>• Natural Attenuation for part of the nitrate contamination</li> </ul>	Chromium — 5 years Strontium-90 — 150 years Nitrate — 75 years Trichloroethene — 10 years	~\$177 million
	GW-4 Enhanced Pump and Treat	<ul style="list-style-type: none"> <li>• Extensive pump and treat system for entire nitrate plume</li> </ul>	Chromium — 10 years Strontium-90 — 150 years Nitrate — 25 years Trichloroethene — 10 years	~\$194 million

✓ Denotes Preferred Alternative

# Participate

Tribal Nations, Hanford stakeholders, and the public are encouraged to read and provide comments on the alternatives presented in 100-F/IU Proposed Plan; the Preferred Alternative could be modified or another alternative selected in response to public input. Following comment evaluation, the Tri-Party Agreement agencies will issue a Record of Decision identifying the final cleanup alternative selected for implementation.

## Comment

Visit [www5.hanford.gov/arpir](http://www5.hanford.gov/arpir) or a public information repository (see below) to secure a copy of the 100-F/IU Proposed Plan. Send your comments via email to [100FIUAPP@rl.gov](mailto:100FIUAPP@rl.gov) or hardcopy to Kim Ballinger, U.S. Department of Energy-Richland Operations Office, P.O. Box 550, A7-75, Richland, WA 99352.

## Attend **\*\*NEW MEETING DATE**

A public meeting will be held on Wednesday, July 23 at 6 p.m. at the Best Western Hood River Inn on 1108 East Marina Way in Hood River. If you are unable to attend, please consider joining the webinar that will be held in conjunction with the meeting.



## Public Information Repositories

Administrative Record and Public Information Repository  
2440 Stevens Center Place, Room 1101 | Richland, WA | 509-376-2530 | [www5.hanford.gov/arpir/](http://www5.hanford.gov/arpir/)

Portland State University  
Government Information  
Branford Price Millar Library  
1875 SW Park Avenue  
Portland, OR 97207-1151  
Attn: Claudia Weston  
503-725-4542

University of Washington  
Suzzallo Library  
Government Publications  
P.O. Box 352900  
Seattle, WA 98195-2900  
Attn: Hilary Reinert  
206-543-5597

U.S. Department of Energy  
Public Reading Room  
Washington State, Tri-Cities  
Consolidated Information Center  
Rm. 101-L  
2770 Crimson Way  
Richland, WA 99352  
Attn: Janice Parthree  
509-372-7443

Gonzaga University  
Foley Center Library  
East 502 Boone Avenue  
Spokane, WA  
Attn: John Spencer  
509-313-6110

100-F Area Proposed Plan  
U.S. Department of Energy  
Richland Operations Office  
P.O. Box 550, A7-75  
Richland, WA 99352