

WASTE SITE RECLASSIFICATION FORM

Operable Unit: 100-KR-2

Control Number: 2022-055

Waste Site Code(s)/Subsite Code(s):

100-K-55:2, 100-K-56:3, and 100-K-96:1

Reclassification Category: Interim FinalReclassification Status: Closed Out No Action Rejected
 RCRA Postclosure Consolidated NoneApprovals Needed: DOE Ecology EPA

Description of Current Site Waste Condition:

(what is the current physical state of the site? what activities have been performed?)

Remedial action at the 100-K-55:2, 100-K-56:3, and 100-K-96:1 waste sites was performed in accordance with remedial action objectives and corresponding remedial action goals established by the U.S. Environmental Protection Agency (EPA) and the U. S. Department of Energy, Richland Operations Office (DOE-RL). The 100-K-55:2, 100-K-56:3, and 100-K-96:1 waste sites, part of the 100-KR-2 Operable Unit, are located in the 100-K Area of the Hanford Site, inside the 100-K Area fence line.

The 100-K-55:2, referred to as the Effluent Pipelines inside 105KW Reactor Security Fence, consists of the remaining portion of the underground effluent pipeline and some segments near the 116-K-1 Crib, 116-KW-3 Retention Basin, and 116-K-2 trench. The pipelines ran in the North-South direction and were north of the 105-KW Reaction Building.

The 100-K-56:3, referred to as the Remaining Pipeline near 116-K-3 Outfall Structure, consisted of 256 ft of 66-inch steel pipe, 189 ft of 16-inch steel pipe, and 70 ft of 42-inch steel pipe. The process sewer pipelines were located north of the 105-KE Reactor operation area, and adjacent to the northwest corner of the 107-KE Basin.

The 100-K-96, referred to as the 100-KE River Effluent Pipeline, consisted of 525 ft of 84-inch carbon steel river effluent pipeline that extends beyond the 116-K-3 outfall structure to the Columbia River. The entire pipeline segment is not able to be removed at this time as a portion is located in a culturally sensitive area. The 100-K-96 pipeline has been divided into two subsites to address the segments as they are removed. This waste site reclassification form addresses the 100-K-96:1 subsite and is located south of the 116-K-3 outfall structure and south of the 100-K perimeter road.

The selected remedy, (1) excavating the site to the extent required to meet specified soil cleanup levels, (2) disposing of contaminated excavation materials at the Environmental Restoration Disposal Facility (ERDF), (3) demonstrating through verification sampling that cleanup goals have been achieved, and (4) proposing the site for reclassification as Interim Closed Out. Remediation of the 100-K-55:2, 100-K-56:3, and 100-K-96:1 waste sites began November 2020 and was completed January 2022.

Basis for Reclassification:

(how does the site meet the reclassification status?)

The basis for reclassification is described in the attached "Remaining Sites Verification Package for the 100-K-55:2, 100-K-56:3, and 100-K-96:1 Waste Sites" DOE/RL-2022-25, 2022, DOE-RL, Richland, Washington. Remediation was performed in accordance with the "Remedial Design Report/Remedial Action Work Plan for the 100 Area" DOE/RL-96-17, 2009, DOE/RL, Richland, Washington, to meet the cleanup levels specified in the "Interim Remedial Action Record of Decision for the 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-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units, Hanford Site, Benton County, Washington (100 Area Remaining Sites)" EPA/ROD/RL0-99/039, 1999, EPA, Region 10, Washington State Department of Ecology, and U. S. Department of Energy, Olympia, Washington (100 Area Remaining Sites Interim ROD).

Remediation activities began in November 2020 and continued through January 2022.

WASTE SITE RECLASSIFICATION FORM (Continued)

Operable Unit: 100-KR-2

Control Number: 2022-055

Waste Site Code(s)/Subsite Code(s):

100-K-55:2, 100-K-56:3, and 100-K-96:1

Basis for Reclassification:*(how does the site meet the reclassification status?)*

The excavation to remove the pipeline extended to an approximate maximum depth of 10.5 m (34.4 ft) below ground surface. Verification sampling of the Overburden Stockpile was conducted on December 16, 2021, and the waste site excavation verification sampling was performed on April 20, 2022, and determined that the site met the cleanup levels specified in the 100 Area Remaining Sites Interim ROD (EPA/ROD/10-99/039). The pipelines were located greater than 4.6 m (15 ft) below the original ground surface; therefore, the excavation to remove the pipelines are located entirely within the deep vadose zone (i.e., greater than 4.6 m [15 ft] depth). Following backfill of the excavation, the pathway for direct exposure to humans or ecological receptors will be eliminated; therefore, attainment of remedial action goals (RAGs) for this waste site is limited to demonstrating that residual contamination is protective of groundwater and the Columbia River. Contamination above shallow zone direct exposure soil cleanup levels was observed in deep zone soils; therefore, institutional controls to prevent uncontrolled drilling or excavation into the deep zone are required.

Project Manager Comments:**Waste Site Controls:**

	Yes	No		Yes	No		Yes	No
Engineered Controls	<input type="radio"/>	<input checked="" type="radio"/>	Institutional Controls	<input checked="" type="radio"/>	<input type="radio"/>	O&M Requirements	<input type="radio"/>	<input checked="" type="radio"/>

If any of the Waste Site Controls are checked "Yes", specify control requirements including reference to the Record of Decision, TSD Closure Letter, or other relevant documents:

Institutional controls to prevent uncontrolled drilling or excavation into the deep zone of the site are required because contamination above shallow zone direct exposure soil cleanup levels was observed in deep zone soils. This requirement is per the remedial alternatives cited on page 27 of the 100 Area Remaining Sites ROD (EPA 1999).

DOE Federal Project Director:

Print First and Last Name

MARK FRENCH Digitally signed by MARK FRENCH
Date: 2023.01.12 08:41:11 -08'00'

Signature / Date

Ecology Project Manager:

Print First and Last Name

Signature / Date

EPA Project Manager:

Roberto Armijo

Print First and Last Name

Armijo, Roberto Digitally signed by Armijo, Roberto
Date: 2023.01.13 11:55:17 -08'00'

Signature / Date