

WASTE SITE RECLASSIFICATION FORM

Operable Unit: 100-KR-2

Control No.: 2018-002

Waste Site Code(s)/Subsite Code(s): 100-K-107 and 100-K-108

Reclassification Category: Interim Final Reclassification Status: Closed Out No Action Rejected RCRA Post closure Consolidated None Approvals Needed: DOE Ecology EPA **Description of current waste site condition:**

The 100-K-107 waste site was an abandoned drain field located southwest of the 105KE Reactor. The 100-K-108 waste site was a sanitary sewer system consisting of a septic tank, a crib, and related piping, and is associated with the 100-K-107 drain field. The sanitary sewer system was constructed in 1957 and received effluent from restrooms in the 1706 KER Recirculation Test Facility, as well as a floor drain in the adjacent contaminated clothing storage area.

Remediation of the 100-K-107 and 100-K-108 waste sites was completed during October 2017. Due to the close proximity of the waste sites, they were dug as one large excavation. The maximum depth of the excavation extended to 4 m (13.1 ft) below ground surface. An estimated 3,730 bank cubic meters (4,408 bank cubic yards) of contaminated soil and debris was removed from the 100-K-107 and 100-K-108 waste sites and disposed at the Environmental Restoration Disposal Facility (ERDF). Verification soil samples were collected on October 30, 2017.

Remedial action at the 100-K-107 and 100-K-108 waste sites was performed in accordance with the remedial action objectives (RAOs) and remedial action goals (RAGs) established by the 100 Area Remaining Sites ROD (EPA/ROD/R10 99/039) and the Remedial Design Report/Remedial Action Work Plan for the 100 Areas (100 Area RDR/RAWP), Rev. 6, U.S. Department of Energy, Richland Operations Office, Richland, Washington (DOE/RL-96-17). The selected remedy involved (1) excavating the site to the extent required to meet the specified remedial action goals, (2) disposing of contaminated excavation materials at the ERDF, (3) demonstrating through verification sampling that cleanup goals have been achieved, and (4) proposing the site for reclassification as Interim Closed Out.

Basis for reclassification:

The cleanup verification sampling results were evaluated in comparison to the RAGs. In accordance with this evaluation, the verification sampling results support a reclassification of the 100-K-107 and 100-K-108 waste sites to Interim Closed Out. The current site conditions achieve the RAOs and the corresponding RAGs established in the 100 Area Remaining Sites ROD (EPA/ROD/R10 99/039) and the 100 Area RDR/RAWP (DOE/RL-96-17).

The results of verification sampling show that residual contaminant concentrations do not preclude any future uses (as bounded by the rural-residential scenario) and allow for unrestricted use of shallow zone soils (i.e., surface to 4.6 m [15 ft] deep). The results also demonstrate that residual contaminant concentrations are protective of groundwater and the Columbia River. The site does not have residual contamination concentrations in the vadose zone that would require any institutional controls.

The basis for reclassification is described in detail in the "Remaining Sites Verification Package for the 100-K-107 and 100-K-108 Waste Sites" (DOE/RL-2018-18).



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Regulator comments:

Waste Site Controls:

Engineered
Controls:

Yes No

Institutional
Controls:

Yes No

O&M
Requirements:

Yes No

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:

N/A

Mark French

DOE Federal Project Director (printed)

Signature

3/27/18
Date

N/A

Ecology Project Manager (printed)

Signature

Date

Rod Lobos

EPA Project Manager (printed)

Signature

4/2/18
Date