

**REMAINING SITES VERIFICATION PACKAGE FOR
100-D-50:10 POTABLE WATER SUPPLY LINES**

Attachment to Waste Site Reclassification Form 2005-016

June 2005

REMAINING SITES VERIFICATION PACKAGE FOR 100-D-50:10 POTABLE WATER SUPPLY LINES

EXECUTIVE SUMMARY

The 100-D-50:10 pipelines subsite, located within the 100-DR-1 Operable Unit, encompasses those residual pipelines of the former potable water supply system for a temporary construction camp located southeast of the 105-DR Reactor site. A review of site history indicates that the sole operational use of the site was potable water supply, which does not suggest historic contact with or release of hazardous or dangerous wastes.

In accordance with this evaluation, a reclassification status of no action has been determined for the 100-D-50:10 pipelines subsite. The site achieves the remedial action objectives and the corresponding remedial action goals established in the *Remedial Design Report/Remedial Action Work Plan for the 100 Area* (DOE-RL 2005a) and the *Interim 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* (EPA 1999). The site will support future unrestricted land uses that can be represented (or bounded) by a rural-residential scenario and is considered protective of human health, groundwater, and the Columbia River. No institutional controls are required.

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STATEMENT OF PROTECTIVENESS

This report demonstrates that the 100-D-50:10 pipelines site meets the objectives for interim closure as established in the *Remedial Design Report/Remedial Action Work Plan for the 100 Area* (DOE-RL 2005a) and the *Interim 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* (EPA 1999). The evaluation shows that there are no hazardous/dangerous materials present at the subsite and, accordingly, no residual contamination in the soil. Therefore, the current status of the subsite is protective of human health, groundwater, and the Columbia River, and no institutional controls are required.

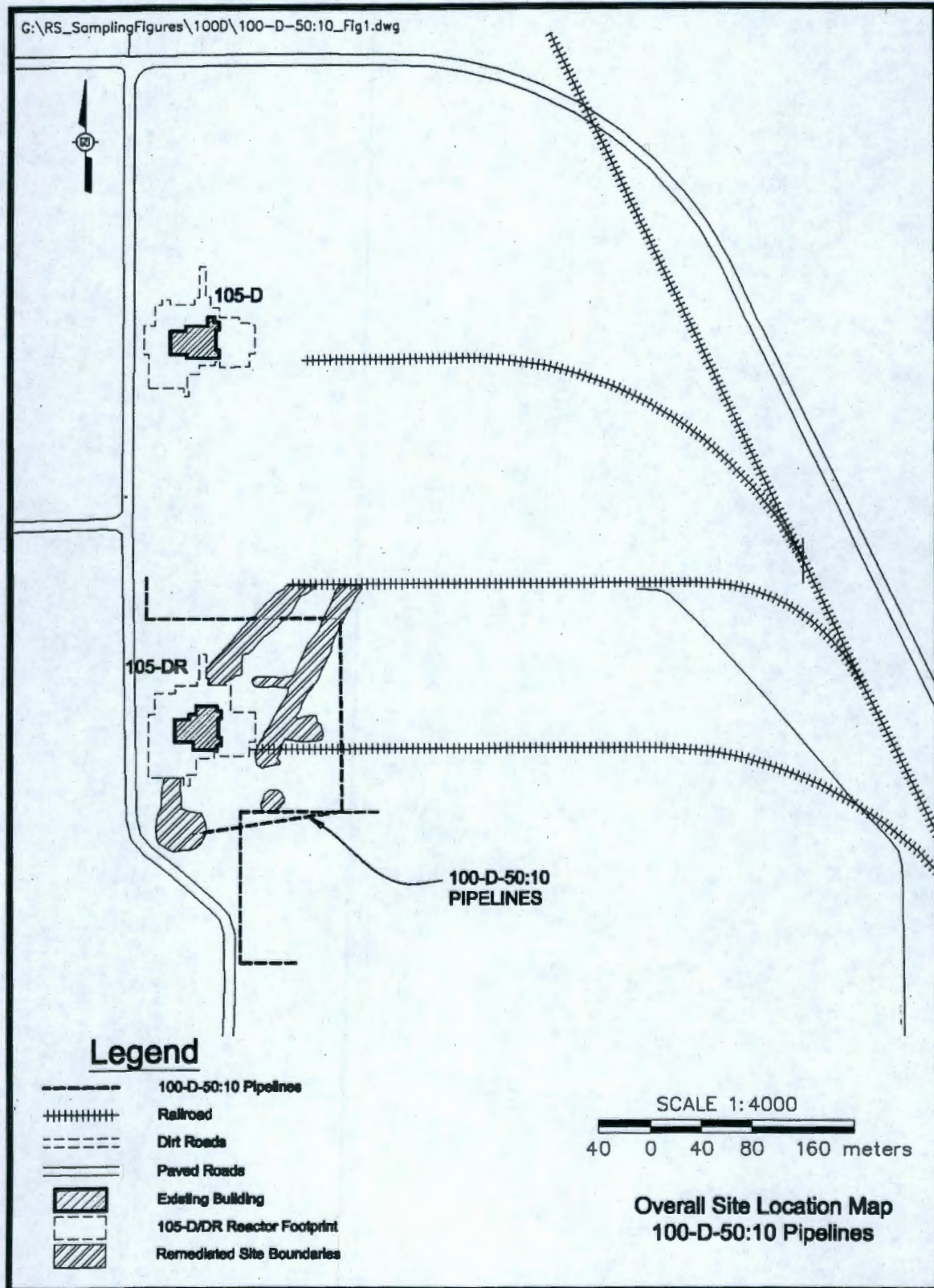
GENERAL SUBSITE INFORMATION AND BACKGROUND

The 100-D-50:10 subsite is located within the 100-DR-1 Operable Unit. This subsite encompasses the residual pipelines of the system that formerly provided potable water to the temporary construction camp located southeast of the 105-DR Reactor site. The subsite is composed of approximately 680 m (2,220 ft) of 0.15-m (6-in.) cast iron pipe around the northern, eastern, and southeastern sides of the 105-DR Reactor (Figure 1). Portions of the former supply system were removed under past Group 3 remedial efforts for coexistent sites (the 116-DR-6 Liquid Disposal Trench and the 100-D-48 Reactor Cooling Water Effluent Underground Pipelines). No evidence has been located to suggest that operation of these sites impacted the 100-D-50:10 pipelines beyond the boundaries of previous remedial efforts.

The exact operational period of the subsite is uncertain, but is believed to be limited to 1947 to 1949 when the construction camp was in use. The system was supplied with water via the fire protection loop piping, which in turn was supplied by the 100-D Area water treatment train at a point prior to any chemical conditioning.

The *100 Area Remedial Action Sampling and Analysis Plan* (DOE-RL 2005b) identifies contaminants of potential concern for the 100-D-50 pipelines, but these are not applicable to the 100-D-50:10 subsite given process knowledge of the operational history of the pipelines. Further, the same process knowledge provides no basis for the introduction of any hazardous or dangerous wastes to these pipelines. Therefore, no further evaluation or confirmatory sampling is necessary for this subsite.

Figure 1. 100-D-50:10 Subsite Location Map.



SUMMARY FOR NO ACTION

The basis for the no action decision for the 100-D-50:10 subsite is supported by review of the subsite operational history. The subsite does not pose an adverse risk to human health or the environment and is protective of groundwater and the Columbia River.

REFERENCES

DOE-RL, 2005a, *Remedial Design Report/Remedial Action Work Plan for the 100 Area*, DOE/RL-96-17, Rev. 5, U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE-RL, 2005b, *100 Area Remedial Action Sampling and Analysis Plan*, DOE/RL-96-22, Rev. 4, U.S. Department of Energy, Richland Operations Office, Richland, Washington.

EPA, 1999, *Interim 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*, U.S. Environmental Protection Agency, Region 10, Seattle, Washington.