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100 Area “Plug-In” and Candidate Waste Sites for Calendar Year 2016

This fact sheet contains the annual listing of waste sites plugged in to the remove, treat and dispose remedy in the 1999 interim action Record of Decision for the 100 Area Remaining Sites.

July 2016

Tri-Party Agencies

The interim action Record of Decision (ROD) for the 100 Area Remaining Sites (located at <http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=D199153689>) issued in July 1999 authorized the use of a “Plug-in” or “Analogous Sites” approach for additional waste sites. The approach allows additional waste sites to be cleaned up under the ROD when candidate or newly discovered wastes sites fit the 100 Area site profile, and contaminant concentrations exceed cleanup criteria established in the ROD. Remove, treat as necessary, and dispose (RTD) is the selected remedy for the sites.

The 100 Area site profile is based on the site characteristics that were detailed in a study that evaluated remedial alternatives for waste site cleanup. The characteristics are defined by the following:

- Types of contaminants.
- Types of contaminated environmental media.
- Types of contaminated waste material.

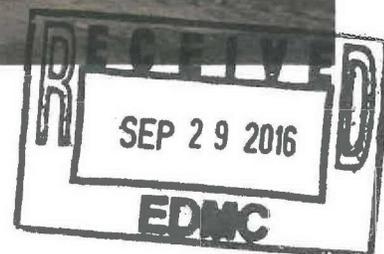
When a newly discovered site fits the site profile, and contaminant levels exceed cleanup criteria, it is appropriate to use the plug-in approach and apply the RTD remedy for remediation of a waste site.

The 2009 Explanation of Significant Differences (ESD) to the ROD (located at <http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0908240150>) authorizes the sites using the plug-in approach to be documented in the Administrative Record (AR), and a fact sheet to be published annually, identifying the sites that have been added. Fact sheets will be published only for years when a plug-in approach is used. This fact sheet meets the requirements of the 2009 ESD to the ROD for calendar year 2016.

Twelve sites located within the 100-K Area, listed in Table 1, are being plugged into the ROD. A review of these twelve sites confirmed that these sites qualify to “plug in” to the Remaining Site ROD because they contain material (asbestos-containing material) and/or contaminants of concern similar to the sites included in the Remaining Sites ROD.



The 1717-K waste site serves as an example of the current conditions at the twelve sites.



100-KR-2

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Background

In 2012, post-demolition inspections and QA reviews of demolition records identified the presence or potential for asbestos containing material (ACM) at the locations of a number of former building sites within the 100K Area. Potential sites were generated in Waste Information Data System (WIDS), allowing the demolished building locations to retain the identified issue (potential presence of ACM) regardless of visible presence of ACM.

In May 2016, surveillance records were reviewed and site inspections were conducted in the 100-K Area to evaluate the status of the WIDS sites and to determine if further action was warranted. The following twelve sites require additional cleanup: 100-K-115 (1717-K), 100-K-116 (1720-K), 100-K-119 (182-K), 100-K-120 (110-KW), 100-K-123 (183.1-KE), 100-K-124 (183.5KE), 100-K-125 (183.6KE), 100-K-126 (183.5KW), 100-K-127 (183.6KW), 100-K-128 (190KE), 100-K-129 (190KW) and 100-K-131 (1908KE). See details in Table 1.

Remedy

- Demolition sites which may contain ACM will either have surficial ACM picked up, or surface material containing ACM removed, as described in the remedial design/remedial action work plan. The removed ACM containing material will be treated as required by the work plan, disposed of, and the area will be covered to grade with clean backfill. These twelve sites will be remediated consistent with the ROD and associated remedial design/remedial action work plan (DOE/RL-96-17, Rev. 6). As there is no cleanup level for asbestos in the soil, the following ARARs will be used:
 - Use the no visible emission standard for ACM debris.
 - Meet packaging, labeling, and transportation requirements of 40 CFR 61.150.
 - Conduct visual observation by a certified asbestos inspector for cleanup verification.
- After completion of the removal, treatment as necessary, disposal and backfill, reclassify the site in accordance with TPA-MP-14 using the certified asbestos inspector's inspection report as evidence for reclassification.

Table 1. Candidate Sites to be added to the 100 Area Remaining Sites ROD

| Site Name | Operable Unit | Associated Building | Current Site Knowledge | Material/ Media | Known or Potential Contamination | Estimated Cost of Site Remediation |
|-----------|---------------|---------------------|--|--------------------|----------------------------------|------------------------------------|
| 100-K-115 | 100-KR-2 | 1717K | Facility footprint contains asbestos-containing material (ACM) at or near surface. | Soil | ACM-Cement Asbestos Board Debris | \$75,000 |
| 100-K-116 | 100-KR-2 | 1720K | | | | \$75,000 |
| 100-K-119 | 100-KR-2 | 182-K | | | | \$350,000 |
| 100-K-120 | 100-KR-2 | 110-KW | | | | \$75,000 |
| 100-K-123 | 100-KR-2 | 183.1KE | | | | \$75,000 |
| 100-K-124 | 100-KR-2 | 183.5KE | | | | \$75,000 |
| 100-K-125 | 100-KR-2 | 183.6KE | | | | \$75,000 |
| 100-K-126 | 100-KR-2 | 183.5KW | | | | \$75,000 |
| 100-K-127 | 100-KR-2 | 183.6KW | | | | \$75,000 |
| 100-K-128 | 100-KR-2 | 190KE | | | | \$75,000 |
| 100-K-129 | 100-KR-2 | 190KW | | | | \$75,000 |
| 100-K-131 | 100-KR-1 | 1908KE | | | | \$75,000 |