PART V, CLOSURE UNIT GROUP 20 CONDITIONS
NON-RADIOACTIVE DANGEROUS WASTE LANDFILL (NRDWL)
AND SOLID WASTE LANDFILL (SWL)
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NON-RADIOACTIVE DANGEROUS WASTE LANDFILL (NRDWL)

AND SOLID WASTE LANDFILL (SWL)

UNITS DESCRIPTION

The 600 Area Central Landfill (600 CL) otherwise referred to as the Nonradioactive Dangerous Waste Landfill (NRDWL) and the Solid Waste Landfill (SWL) was one unit between 1973 and 1975 when both units received hazardous waste from the Hanford site. In 1975, the 600 Area landfill was divided into two units because of the nature of the waste disposed at the NRDWL and SWL. The NRDWL was regulated under Chapter 173-303 WAC. The SWL received non-dangerous solid waste (SWL) was regulated under Chapter 173-350 WAC.

The Non-Radioactive Dangerous Waste Landfill (NRDWL)

The Non-Radioactive Dangerous Waste Landfill (NRDWL) is a 10 acre land disposal unit that consists of 19 unlined trenches approximately 400 feet long, 16 feet wide at the base, and 15 feet deep. Six trenches (trenches 19N, 26, 28, 31, 33, and 34) were used for disposal of dangerous waste. Asbestos was disposed in nine trenches (trenches 2N, 20, 21, 22, 23, 25, 27, 29, and 30). Nonhazardous waste was disposed in trench 1N. The dangerous waste trenches of NRDWL have a total design capacity of 5 acre-feet.

The NRDWL was used from January 1975 through May 1985 for the disposal of dangerous waste generated from various Hanford Site operations. The NRDWL is an inactive landfill it ceased receiving nonradioactive dangerous waste for disposal in May 1985. This waste consists of listed waste, waste from nonspecific sources, characteristic waste, and state only waste. NRDWL provided disposal of dangerous wastes generated from process operations, research and development laboratories, maintenance activities and transportation functions located throughout the Hanford Facility. Figure 2-2 of Addendum H shows the summary of waste disposed in NRDWL.

The Solid Waste Landfill (SWL)

The Solid Waste Landfill (SWL), centrally located within the 600 Area of the Hanford Site, is an inactive unit. The SWL is located adjacent to the NRDWL described above. In 1992, Ecology assumed the regulatory responsibility for the landfill by pre-empting the Benton- Franklin Public Health Department from regulating the SWL. The SWL is approximately 26 ha (66 acres). It is divided into five units, each consisting of a series of parallel trenches. The two oldest units are identified as the Phase I area, covering approximately 11 ha (28 acres), and was active between 1973 and 1982. Phase II was constructed in 1982 and covers approximately 15 ha (38 acres) as an addition to the southern half of the SWL. Figure 2-2 of Addendum H shows the summary of waste disposed in SWL.

LIST OF ADDENDA

<table>
<thead>
<tr>
<th>Addendum</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Part A Form, Revision 7, dated 10-1-2008</td>
</tr>
<tr>
<td>B</td>
<td>Waste Analysis/Sampling and Analysis Plans -Reserved</td>
</tr>
<tr>
<td>C</td>
<td>Process Information -Reserved</td>
</tr>
<tr>
<td>D</td>
<td>Groundwater Monitoring (DOE/RL-2010-28, Revision 1)</td>
</tr>
<tr>
<td>E</td>
<td>Security Requirements (See Attachment 3)</td>
</tr>
<tr>
<td>F</td>
<td>Preparedness and Prevention –Reserved</td>
</tr>
<tr>
<td>G</td>
<td>Personnel Training</td>
</tr>
<tr>
<td>H</td>
<td>Closure /Post-Closure Plan (DOE/RL-90-17, Revision 2)</td>
</tr>
</tbody>
</table>
Addendum I Inspection Requirements
Addendum J Contingency Plan- Reserved

DEFINITIONS

ACRONYMS

Ecology Washington State Department of Ecology
HFFACO Hanford Federal Facility Agreement and Consent Order
NRDWL Non-Radioactive Dangerous Landfill
SEPA State Environmental Policy Act
SWL Solid Waste Landfill
USDOE United States Department of Energy

V.20.A COMPLIANCE WITH PERMIT CONDITIONS

The Permittees will comply with all permit conditions in this permit unit and its addenda with respect to the applicable requirements in Part I and Part II of the Hanford Facility Dangerous Waste Permit.

V.20.B GROUNDWATER MONITORING REQUIREMENTS FOR REGULATED UNITS

The Permittees will implement the groundwater monitoring plans contained in Addendum D to this permit unit. Compliance with this plan will satisfy the groundwater protection and monitoring requirements cited in Permit Condition II.F.1.

V.20.C RECORDKEEPING AND REPORTING

The Permittees will place documentation of all work conducted pursuant to this permit unit including results of all monitoring, testing, or analytical work and associated quality assurance and quality control data in the Hanford Facility Operating Record, as required by Permit Condition II.I.2. [WAC 173-303-380]

V.20.D SECURITY

The Permittees will post signs at access points to the closing landfills stating the following (or an equivalent legend): Danger – Unauthorized Personnel Keep Out. These signs will be written in English, legible from a distance of 7.6 meters (25 feet), and visible from all angles of approach. [WAC 173-303-310(2)(a)]

V.20.E TRAINING PLAN

The Permittees will comply with the training requirements as described in Permit Condition II.C (Personnel Training), Permit Attachment 5 (Hanford Facility Personnel Training Plan), and Addendum G (Personnel Training).

V.20.F CLOSURE

V.20.F.1 The Permittees will implement the practices as described in Addendum H, Closure Plan, and Permit Condition II.J for closure of NRDWL [WAC 173-303-610(4)].

V.20.F.2 24 months prior to initiation of closure activities, the Permittees will submit to Ecology a Class III permit modification request in accordance with WAC 173-303-830 requirements. This Class III modification request will be to incorporate the final engineering design of the closure and post-closure plan into Addendum H, of this unit-specific Chapter. The permit modification request must contain information required by WAC 173-303-806(4)(a)(xiii) and (xx). The final engineering design shall be based on performance standards specific to evapo-transpiration barriers acceptable to Ecology, and
supported by validated modeling analysis representative of the performance of evapo-
transpiration barriers, and monitoring requirements and evaluation criteria necessary to
validate performance of the installed cover.

V.20.G  INSPECTIONS

V.20.G.1 The Permittees will follow the inspection schedule in Addendum I and Permit Condition
II.X until closure of the unit.

V.20.G.2 90 days prior to initiation of closure activities, the Permittees will submit a Class II
modification to Addendum I that will specify the inspection schedule after the cover has
been installed for warning signs, run-on and run-off control, subsidence, wind dispersal
control systems, vegetation stability, and the lysimeter.

V.20.H  PROJECT SPECIFIC BIOLOGIC MITIGATION PLAN

The Permittees will submit a project specific biological mitigation plan for Ecology
review and approval 180 days before the initiation of closure activities. The biological
mitigation plan shall include specific mitigation measures to protect vegetation plant
species, avian species, and mammalian species in the Washington State Natural Heritage
Program element occurrence of the bitterbrush/Indian ricegrass sand dune complex
surrounding the NRDWL/SWL [WAC 197-11-960 B.4 and B.5]. The biological
mitigation plan shall also list specific mitigation measures to mitigate significant adverse
impacts to two cultural resources of concern next to the Army Loop Road between Beloit
Avenue and the northwest corner of the NRDWL [WAC 197-11-960 B.13].
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