

**ADDENDUM K  
POST-CLOSURE PLAN**

1  
2  
3  
4

DRAFT

1  
2  
3  
4

**This page intentionally left blank.**

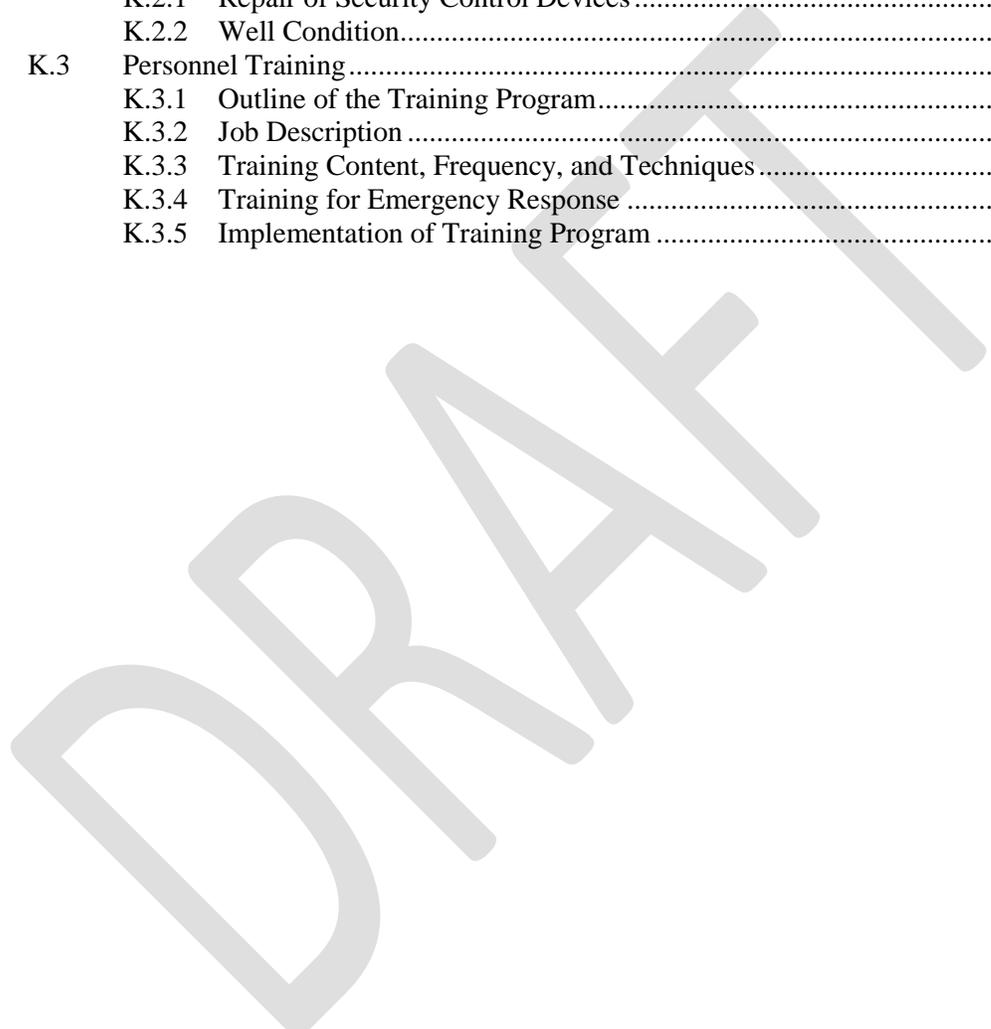
DRAFT

**ADDENDUM K  
POST-CLOSURE PLAN**

1  
2  
  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18

**Contents**

K.0 POST-CLOSURE PLAN..... K.1  
K.1 Inspection Plan..... K.1  
    K.1.1 Security Control Devices ..... K.1  
    K.1.2 Well Condition..... K.1  
K.2 Maintenance Plan..... K.1  
    K.2.1 Repair of Security Control Devices ..... K.1  
    K.2.2 Well Condition..... K.1  
K.3 Personnel Training..... K.1  
    K.3.1 Outline of the Training Program..... K.2  
    K.3.2 Job Description ..... K.2  
    K.3.3 Training Content, Frequency, and Techniques ..... K.2  
    K.3.4 Training for Emergency Response ..... K.2  
    K.3.5 Implementation of Training Program ..... K.3



1  
2  
3  
4  
5  
6

**This page intentionally left blank.**

DRAFT

1 **K.0 POST-CLOSURE PLAN**

2 **K.1 Inspection Plan**

3 This section describes inspections for well conditions during a period of post-closure groundwater  
4 monitoring. Each of the groundwater monitoring wells has a locked cap to prevent unauthorized access,  
5 has a surface concrete pad, and is surrounded by four steel guard posts for visibility and to prevent  
6 damage from vehicles. Table K.1 lists the inspection items and the inspection frequency for the post-  
7 closure care period. These inspections may be implemented in checklist form. Such a checklist could  
8 specify entering checklist performance and results in the appropriate inspection logbook.

9 **K.1.1 Security Control Devices**

10 Inspection of groundwater monitoring well cap and locks will be conducted by groundwater sampling  
11 crews during each sampling event. Problems and/or damage will be noted on groundwater sample report  
12 forms for identification to well maintenance staff, which perform and track repairs.

13 **K.1.2 Well Condition**

14 Monitoring well conditions will be inspected by groundwater sampling crews each time the well is  
15 sampled. The inspection will include well surface casing and pad conditions, guard posts, and pump  
16 functionality. Problems and/or damage will be noted on groundwater sample report forms for  
17 identification to well maintenance staff, which perform and track repairs.

18 **K.2 Maintenance Plan**

19 This section provides a plan for maintenance of the wells during the post-closure groundwater monitoring  
20 period. Elements of this maintenance plan include repair of well caps and locks, well maintenance, and  
21 pump repair or replacement. The maintenance plan actions are based on observations made and recorded  
22 in the inspection plan, Section 8.1. Where monitoring well damage or replacement requires a change of  
23 the groundwater monitoring program, a Permit Modification request will be submitted in accordance with  
24 [WAC 173-303-830](#).

25 **K.2.1 Repair of Security Control Devices**

26 The sitewide well maintenance organization will perform all monitoring well maintenance. The well  
27 maintenance organization will be notified of any problems to the well caps and locks as noted in the  
28 groundwater sample report form during well sampling activities. Well repairs will be made as soon as  
29 possible if an unsafe condition exists or if a well is not capped and/or locked.

30 **K.2.2 Well Condition**

31 The well maintenance organization will be notified of any problems to the well casing, surface pad, guard  
32 posts, or pump as noted in the groundwater sample report form during well sampling activities. Well  
33 repairs will be made as soon as possible if an unsafe condition exists. Except where immediate action is  
34 required, maintenance action will be initiated within 90 days of discovery. Repairs to a monitoring well  
35 will be made before the following sampling period and tracked on well inspection forms to completion,  
36 unless well replacement may be necessary.

37 Well replacement may be necessary if a well is no longer usable for collecting groundwater samples  
38 representative of aquifer conditions. In this case, a notification will be made in writing to Ecology, and  
39 well replacement will be based on a joint decision between Ecology and USDOE.

40 **K.3 Personnel Training**

41 This section describes the training of personnel required to sample, inspect, and maintain monitoring  
42 wells at the 300 APT in a safe and secure manner during post-closure care as required by [WAC](#)  
43 [173-303-330](#) and Permit Condition II.C of the Hanford Facility Dangerous Waste Permit.

### 1 **K.3.1 Outline of the Training Program**

2 This section outlines the training necessary to conduct the post-closure well sampling, inspection, and  
3 maintenance activities at the 300 APT. The following additional topics will be included in classroom and  
4 on-the-job training that personnel will complete before conducting well sampling and inspections at the  
5 300 APT.

- 6 • Security (control devices) inspections
- 7 • Location, integrity, and inspection of groundwater wells.

### 8 **K.3.2 Job Description**

9 This section provides the job description(s) for well sampling, inspection, and maintenance personnel at  
10 300 APT as required by [WAC 173-303-330](#) (2) (a). Site wide groundwater sample collection personnel  
11 will perform the sampling and inspections. The site wide well maintenance organization will perform all  
12 monitoring well maintenance. The training program will include understanding of, and identifying  
13 damage to the following.

- 14 • Control devices (well caps and locks)
- 15 • Well surface casing, surface pad, guard posts, and pumps.

### 16 **K.3.3 Training Content, Frequency, and Techniques**

17 The training of personnel requires the following job-specific training areas, as appropriate.

- 18 • **Emergency Preparedness Training:** This training will include a review of Hanford Site  
19 emergency procedures that consists of listening to and responding to standard emergency  
20 signals.
- 21 • **The RCRA Groundwater Monitoring Quality Assurance Plan:** This training will include the  
22 documentation requirements included in the chain of custody to the laboratory, how to correct  
23 mistakes made on field data sheets, and any applicable manifests or shipping orders required for  
24 shipping samples to the laboratory.
- 25 • **Groundwater Field Sampling Procedures:** This training will include pump description and  
26 operation of the types of pumps (used by the field personnel), operational procedures for the  
27 pumps used to gather groundwater samples, and special requirements for collecting and  
28 packaging samples containing volatile organic materials that require acid preservatives or special  
29 filtering. Training also will be given in the areas of field data record preparation and chain of  
30 custody to the laboratory.
- 31 • **Site Security Inspections:** Personnel will be instructed on how to identify problems or damage  
32 to well caps and locks.
- 33 • **Location, Integrity, and Inspection of Groundwater Wells:** Personnel will be shown the  
34 locations of the groundwater wells and instructed on how to inspect the well surface casing,  
35 surface pad, and guard posts for each well and to identify damage to these well elements.

### 36 **K.3.4 Training for Emergency Response**

37 The training will include a review of Hanford Site emergency procedures that consists of listening to  
38 standard emergency signals and appropriate responses. Staff will be fully trained to respond effectively to  
39 emergencies, and are familiar with emergency procedures and equipment. In addition, hazardous waste  
40 site operation training will be provided in accordance with 29 CFR 1910.120.

- 41 • **Response to Fires:** The 300 APT has no existing structures and is covered with a soil cover. As  
42 such, there is no need for fire equipment. However, if personnel are at the unit when a brushfire  
43 breaks out, they will notify the Hanford Fire Department.
- 44 • **Response to Groundwater Contamination:** Based on the current groundwater monitoring  
45 program, groundwater contamination beneath the 300 APT does not constitute an emergency

1 situation, nor will it become so as a result of closure. Therefore, emergency response training in  
2 this regard is not warranted at this time.

3 **K.3.5 Implementation of Training Program**

4 Personnel will undergo the required training programs outlined in Section 8.3.1 as they pertain to  
5 monitoring well inspection requirements. Personnel will not be allowed to perform inspections at the 300  
6 APT until the required training programs have been completed.

**Table K.1 Inspection Schedule for the 300 Area Process Trenches.**

Inspection item	Inspection frequency
Security control devices: well caps and locks	Semiannually
Well condition, surface pad, guard posts, pumps	Semiannually

7

8

DRAFT

1  
2  
3  
4

**This page intentionally left blank.**

DRAFT