



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99354 • (509) 372-7950

July 1, 2010

Ms. Shirley J. Olinger, Manager
Office of River Protection
United States Department of Energy
P.O. Box 450, MSIN: H6-60
Richland, Washington 99352

Dear Ms. Olinger:

Re: 241-TY Interim Surface Barrier Construction Assessment Field Visit

The Department of Ecology (Ecology) visited the 241-TY Farm on June 3, 2010, to assess construction activities. Ecology found that the site was very orderly and good progress on the evapotranspiration barrier had been made. The construction assessment form is enclosed.

If there are any questions, contact me at 509-372-7970, Kristi Wold at 509-372-7985, or Jeff Lyon at 509-372-7914.

Sincerely,

Michelle L. Hendrickson, CHMM, PE
Tank Waste Storage Project Engineer
Nuclear Waste Program

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Enclosure

cc w/enc:

Lori Huffman, USDOE
Robert Lober, USDOE
Andrea Hopkins, WRPS
Dan Parker, WRPS
Rebecca Wiegman, WRPS
Eric Van Mason, CEES
Stuart Harris, CTUIR
Gabriel Bohnee, NPT

Susan Leckband, HAB
Russell Jim, YN
Ken Niles, ODOE
Administrative Record: DST/Tank Waste Storage
WRPS Correspondence Control
Environmental Portal
USDOE-ORP Correspondence Control

S-2-3



INTERIM ASSESSMENT REPORT

Construction Activities

A. GENERAL INFORMATION

Project: 241-TY Tank Farm Interim Surface Barrier

Project Contact: Becky Wiegman Phone: (509) 373-9443

Review Date: June 3, 2010

Reviewer: Michelle Hendrickson, CHMM, PE

USDOE Project: US Department of Energy-ORP

USDOE Contact: Bob Lober

Prime Contractor: Washington River Protection Solutions

Project Manager: Dan Parker Phone: (509) 372-0766

Location: 1200 Jadwin, Richland, WA

Scheduled Start Date: 3/9/2010 Actual Start Date: 3/8/2010 Completion Date: Summer 2010

Contract Amount: Approximately 3 Million

Sub-Contractor: Fowler, Columbia Energy and Environmental Services, PNNL, Energy Solutions

Location: 200 West Area, Hanford Nuclear Reservation, Richland, WA

PROJECT DESCRIPTION:

An interim surface barrier is being constructed to prevent the spread of contamination below the 241-TY Tank Farm. The barrier material is a modified asphalt that will prevent storm water run-off from contacting the soils of the 241-TY Tank Farm Area. All storm water will be collected in two locations within the tank farm and conveyed by gravity to a lined evapotranspiration basin. Construction activities for this project include:

- excavation, compaction, and testing of soils for the evapotranspiration basin
- installation and testing of the basin 40-mil high density polyethylene (HDPE) liner
- backfilling of the basin with sandy soil
- anchoring of the basin walls
- hydro-seeding the basin with grasses and rabbit brush
- excavation and installation of the storm water conveyance piping from the 241-TY Tank Farm to the basin
- excavation within the 241-TY Tank Farm for storm water collection points, performance monitoring equipment, and for installation of protection to shield risers and tank farm equipment during barrier application
- 241-TY Tank Farm Barrier site grading and sloping
- application of asphalt materials
- associated quality assurance (QA)/quality control (QC) testing and approval.

	Yes	No	NA	See Remarks
1. Comply with Plans and Specifications?	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Field Test Being Accomplished?	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Satisfactory Contractor Quality Control?	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Inspection Documentation Satisfactory?	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Site Condition (Drainage - Erosion)				
a. Orderly?	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Dust control adequate?	X	<input type="checkbox"/>	<input type="checkbox"/>	X
c. Miscellaneous structures adequate?	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Construction bypassing satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
7. Unsafe Conditions/Health Hazards Observed?	<input type="checkbox"/>	X	<input type="checkbox"/>	X
8. Is Project Construction on Schedule?	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the Operations and Maintenance Documentation on Schedule?	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Is the Maintenance Management System on Schedule?	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
11. Traffic control and traffic safety?	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

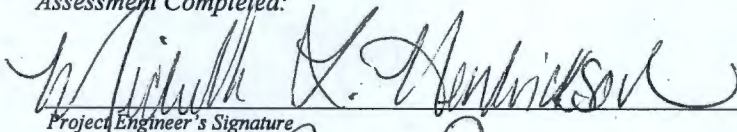
Three work packages have been developed (Excavation within the 241-TY Farm, Civil Preparatory work for the Evapotranspiration Basin, and Basin Installation) and a fourth (Barrier Application within 241-TY Farm) is in process. These work packages include: construction logs, procedures, radiological work permits, engineering reports, component/material QA/QC inspection and testing, etc.

No edits or changes to the project engineering drawings or specifications have been made or needed at this point. However, a vertical riser from a pipe within the 241-TY Tank Farm, not previously noted, was discovered during excavation activities regarding the installation of precipitation and stormwater collection and conveyance piping. A request for information has been sent and WRPS Engineering staff will respond. Should any changes of the approved design be necessary to this or other field conditions, WRPS and USDOE-ORP will notify Ecology.

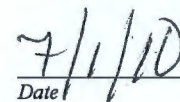
This action is not required by a permit or Hanford Federal Facility Agreement and Consent Order (HFFACO or Tri-Party Agreement) Milestone. However, it is the technically correct action to prevent further contamination migration of Tc-99 to groundwater. Should the Proposed Consent Decree (Case Number 08-5085-FVS) and October 1, 2009 TPA Agreement Modifications be formalized, then a TPA Milestone would require this action.

Of importance to note is the diligent work that is being performed by Fowler in several areas. During the recent windstorm event, the dust suppression performed by WRPS's sub-contractor, Fowler, was exemplary. Other neighboring projects also complimented on this effort. Safety is a priority and excavation work was stopped for 3 hours while an electrician was brought to the site to ensure and verify that lines were not energized. Completion schedule and training is also important as the Contractor and sub-contractor will be participating in additional training during off-hours to ensure the success continues on the project.

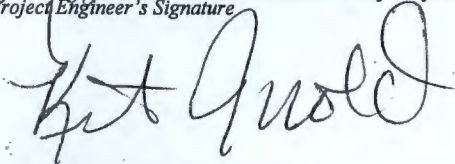
Assessment Completed:



Project Engineer's Signature



Date



Permit Manager's Signature



Date