



**Change Notice for Modifying Approved Documents/ Workplans
In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, Documentation and Records**

Change Number	Document Submitted Under Tri-Party Agreement Milestone	Date:
TPA-CN-251	N/A	01/29/2009
Document Number and Title: SGW-34277, Rev. 1, Waste Control Plan for the BC Cribs and Trenches Area in the 200-BC-1 Operable Unit		Date Document Last Issued: July 2007
Originator: G. L. Sinton		Phone: 373-7039
Description of Change: Update to provide for waste generated during the Deep Vadose Zone Treatability Test.		
<p><u>B. L. Charboneau</u> and <u>R. Lobos</u> agree that the proposed change modifies an approved document <u>RL</u> <u>Lead Regulatory Agency</u></p> <p>and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, <i>Documentation and Records</i>, and not Chapter 12.0, <i>Changes to the Agreement</i>.</p> <ul style="list-style-type: none"> • Revise Work Scope Description: 200-BC-1 Operable Unit (OU) characterization in the BC Cribs and Trenches Area. The scope of work includes installing wells, direct push technology boreholes, test pit excavations, and collecting soil and groundwatersamples that will be analyzed for radiological and non-radiological contaminants of concern. Geophysical logging will also be conducted in the BC Cribs and Trenches Area. The 216-B-26 Trench, 216-B-14 Crib, and 216-B-53A Trench will be evaluated using up to approximately 155 direct push boreholes. Also, up to five boreholes are to be drilled to evaluate potential correlation of electrical resistivity characterization data with soil contaminant concentrations. Additionally, decommissioning of the direct push boreholes and some existing wells will be performed upon completion or as deemed necessary in future years. The treatability test includes the planned excavation of near-surface contamination at three specific waste sites- the 216-B-26 Trench, the 216-B-53A Trench, and the 216-B-14 Crib. The Soil Desiccation Pilot Test (SDPT), which will be conducted near the 216-B-17 Trench, will begin with site characterization involving installation of one borehole and five DPT holes. In addition to sediment sampling, gas and condensate sampling will be performed. • Site Description: Revise last sentence: to include DOE/RL-2007-56 • References: add " DOE/RL-2007-56, <i>Deep Vadose Zone Treatability Test Plan for the Hanford Central Plant, Rev. 0</i>" • Waste Container Storage Area(s) Coordinate Location(s): revise the first sentence per the following: Three waste container storage areas, including the queue for ERDF cans, will be established in the BC Cribs and Trenches Area to manage... • Expand the last sentence of Non-Regulated Material Disposal Locations(s) as such: Liquid wastes (e.g. purgewater, decontamination fluids, condensate) will be collected and taken to the Purgewater Storage and Treatment Facility (PSTF) or the Effluent Treatment Facility (ETF). • Section 1.0, Description of Work, 1st para: This waste control plan (WCP) governs the management of investigation-derived waste (IDW) generated at the BC Cribs and Trenches (Figure 1) under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). The planned work scope includes activities detailed in the <i>Sampling and Analysis Plan for Electrical Resistivity Correlation for the BC Cribs and Trenches Area</i> (DOE/RL-2007-13), <i>Sampling and Analysis Plan for Phase 1 of the BC Cribs and Trenches Area Waste Sites Excavation-Based Treatability Test</i> (DOE/RL-2007-14), <i>Excavation-Based Treatability Test Plan for the BC Cribs and Trenches Area Waste Sites</i> (DOE/RL-2007-15), and <i>Sampling and Analysis Plan for Characterization of the Soil Desiccation Pilot Test Site</i> (DOE/RL-2008-67). The soil desiccation pilot test (SDPT) and associated characterization is being performed to evaluate the potential of this technology to protect groundwater from mobile contaminants. The electrical resistivity characterization geophysical method is being applied at the BC Cribs and Trenches Area in an attempt to identify the lateral and/or vertical distribution of targeted contaminants of potential concern in the vadose zone. The excavation-based treatability test will assess the field conditions related to removal, treatment, and disposal of near-surface contamination present in representative wastes sites. • Section 1.0, Description of Work, new para following the 4th para: Shallow wells and DPT holes installed for the SDPT will be 		

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installed to current construction standards, because they will be utilized over a period of several months. Material removed will be disposed of as waste, based on sample data and/or surrounding waste site characterization data.

- Section 1.1 Waste Streams. Add the following anticipated waste stream: Condensate associated with the soil gas extracted during the soil desiccation activities
- Section 1.2, 2nd para, 1st sentence: Waste will be stored at the site-specific waste container storage areas as shown in Figure 1.
- Add new Section 1.2.7 **Condensate Waste** (renumber current Section 1.2.7 **Unplanned Release**, as 1.2.8: All condensate waste will be containerized and stored at the designated site-specific waste container storage area until discharged at the 200 Area Effluent Treatment Facility or at the Hanford Site 600 Area Purgewater Storage and Treatment Facility (ModuTanks) in accordance with Appendix F of the *Hanford Federal Facility Agreement and Consent Order* (Ecology 1989).
- Section 1.4 **Storage and Final Disposal**, add new 6th para: If necessary, freeze protection will be provided for condensate waste containers.
- Section 1.6, **Estimate of Investigation-Derived Waste Quantities**, revise 2nd sentence: These quantities are based on IDW generated during previous 200 Areas drilling and excavation activities, and condensate generation estimates.
- Figure 1: Add location of well C7047. See Attachment 1 for revised figure.
- Table 1: Revise as shown below

Table 1. Estimate of Investigation-Derived Waste Quantities.					
Operable Unit	Method	Liquid Wastes	Soil Wastes	Miscellaneous Solid Waste	
		Purgewater and decon fluids (drums ^a)	Containers	PPE/Trash	Disposable Equipment
200-BC-1	Drilling	10	50 drums ^a	15 drums ^a	1000 linear feet drill casing 1000 linear feet 2.5" push rod
200-BC-1	Decommissioning	N/A	N/A	TBD	TBD
200-BC-1	Excavation	10	300 ERDF roll-off boxes ^b	50 drums ^a	TBD
200-BC-1	SDPT site characterization	5 drums	15 drums	15 drums	200 ft drill casing 900 ft push rod

^a208-L (55-gal) drums.
^bERDF roll-off box max payload: 18.1 MT (20 tons).
 PPE = personal protective equipment.

- Table 2. 200-BC-1 Borehole Well List, add following line in the table:

200-East	200-BC-1	216-B-17	Crib	C7047
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- Table 3. 200-BC-1 Direct Push List, add the following lines in the table:

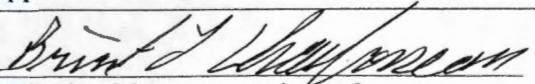
200-East	200-BC-1	216-B-17	Crib	C7051
200-East	200-BC-1	216-B-17	Crib	C7052
200-East	200-BC-1	216-B-17	Crib	C7053
200-East	200-BC-1	216-B-17	Crib	C7054
200-East	200-BC-1	216-B-17	Crib	C7054 5 n/w

- Section 2.0 **References**: add DOE/RL-2007-56, 2007, *Deep Vadose Zone Treatability Test Plan for the Hanford Central Plateau*, Rev. 0, U.S. Department of Energy, Richland Operations Office, Richland, Washington.

Justification and Impacts of Change:

The change provides expanded description of bulk waste management/control.
The updates made by this change will be reflected in the next revision (Revision 1) of SGW-34277.

Approvals:

 RL Project Manager - Brian Charbonneau	<u>01-27-09</u> Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	
 EPA Project Manager (200-BC-1 OU Lead)	<u>1-29-09</u> Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	

Attachment 1.

