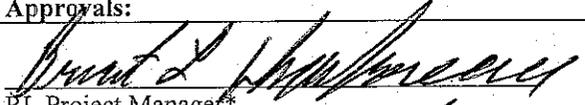
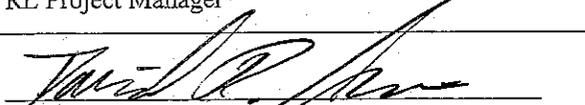


In Accordance with the Tri-Party Agreement Action Plan,  
Section 9.0, Documentation and Records

0073161

<b>Change Number</b>  TPA-CN-163	<b>Document Submitted Under</b> <b>Tri-Party Agreement Milestone</b>	<b>Date:</b>  April 24, 2007	
<b>Document Number and Title:</b> PNNL-12220, "Sampling and Analysis Plan Update for Groundwater Monitoring - 1100-EM-1 Operable Unit"		<b>Date Document Last Issued:</b> June 1999	
<b>Originator:</b> B. L. Charboneau		<b>Phone:</b> 373-6137	
<b>Description of Change:</b> Modification of PNNL-12220			
<p>PNNL-12220:                  Section 2.1, Table 1 (page 5): Only the following wells identified in the table will be sampled: 699-S28-E12, 699-S31-E10A, and 699-S31-E10C. The change maintains monitoring in three wells: one well at the point of compliance, and one shallow well and one adjacent deep well at the downgradient edge of the inactive Horn Rapids Landfill.</p> <p>Section 2.2, Table 2 (page 6): The following constituents in Table 2 will be analyzed, on an annual frequency: trichloroethylene, vinyl chloride, and 1,1-dichloroethene. The analysis method for the volatile organic analysis will be EPA Method 8260, and all the specific constituents are identified on Attachment 1. Sampling and analysis for filtered and unfiltered chromium in one well (699-S41-E12) near the 1171 Building will be deleted.</p> <p>Sections 2.3, 2.4, and 2.5 (pages 6 and 7): The field sampling procedures and Quality Assurance and Quality Control program will be those used by Fluor Hanford rather than Pacific Northwest National Laboratory.</p> <p>Section 3.0 (page 7): Data management and reporting will be performed by Fluor Hanford rather than Pacific Northwest National Laboratory.</p>			
<b>Justification and Impacts of Change:</b>			
<p>The second CERCLA 5-year review for the Hanford Site (DOE/RL-2006-20, Rev. 1) states, "The remedial actions selected for the 1100 Area Operable Units have been completed, the remedy remains protective, and the 1100 Area NPL site has been deleted from the list." Specifically in regards to the 1100-EM-1 groundwater, the review states, "All wells monitoring the Horn Rapids Landfill currently show trichloroethene concentrations below the 5-µg/L maximum contaminant level. This level was first met at the point of compliance in 1999 and has remained below this level every year through 2005." The review also states, "The plume mass and concentration have been adequately reduced to be protective of human health and the environment." Issue 20 in the review states: "Groundwater monitoring for the 1100-EM-1 Operable Unit is no longer necessary but continues following an extended period of monitoring that shows contaminant levels are below the maximum contaminant level and continue to show a downward trend." Action 20-1 states: "Submit a change request to modify groundwater monitoring for the 1100-EM-1 Operable Unit."</p>			
<p>Information gathered under the reduced monitoring will continue to provide assurance that the remedial action goals have been achieved. The 1100-EM-1 Operable Unit will also be included in a future CERCLA 5-year review. Monitoring of nitrate and uranium near the Horn Rapids Landfill will continue under the Environmental monitoring activities performed to meet the objectives of the Atomic Energy Act. Monitoring associated with the 300-FF-5 Operable Unit investigations will continue to evaluate trichloroethene concentrations northeast of 1100-EM-1 near the river.</p>			
<p>This Change Notice modifies groundwater monitoring for the 1100-EM-1 Operable Unit. The modification will reduce the number of wells used for monitoring trichloroethene and its degradation products downgradient of the inactive USDOE Horn Rapids Landfill. Sampling and analysis for filtered and unfiltered chromium in one well (699-S41-E12) near the 1171 Building will be deleted because chromium concentrations in this well are below the MCL.</p>			
<p>Other documents impacted include:</p>			
<p>The original sampling and analysis plan: <i>Additional Monitoring Well Installation and Field Sampling Plan for Continued Groundwater monitoring at the Horn Rapids Landfill</i> (DOE/RL-95-50, 4/95).</p>			
<p>The Hanford Federal Facility Agreement and Consent Order, as amended.</p>			
<b>Approvals:</b>			
 RL Project Manager*	6-25-07 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved <b>EDMC</b>
 Lead Regulatory Unit Manager*	27 Jun 07 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved

**RECEIVED**  
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