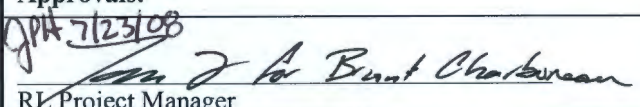
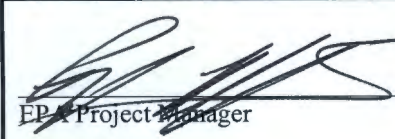




**Change Notice for Modifying Approved Documents/ Workplans
In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, Documentation and Records**

Change Number	Document Submitted Under Tri-Party Agreement Milestone	Date:		
TPA-CN-228	N/A	July 14, 2008		
Document Number and Title: 100-FR-3 Operable Unit Sampling and Analysis Plan, DOE/RL-2003-49 Rev 1 Waste Control Plan for the 100-FR-3 Operable Unit, DOE/RL-2004-31		Date Document Last Issued: September 2004 March 2005		
Originator: John Winterhalder		Phone: 372-8144 or 430-4737		
Description of Change: Update Table 2 Groundwater Sampling Matrix for the 100-FR-3 Operable Unit (DOE/RL-2003-49 Rev 1) Update Attachment 3, 100-FR-3 Operable Unit Groundwater Well List (DOE/RL-2004-31)				
<p><u>B. L. Charboneau</u> and <u>R.A. Lobos</u> agree that the proposed change modifies an approved RL Lead Regulatory Agency</p> <p>work plan/document 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> <p>Table 2 of the above referenced Sampling and Analysis Plan has been modified to add 1 well and selected analytes. Attachment 3 of the above referenced Waste Control Plan has been modified to add 1 well to the list of wells (Attachment 1).</p>				
Justification and Impacts of Change:				
<p>An additional well 199-F8-7 (C6834) is being constructed to determine the quality of groundwater adjacent to the 118-F-6 Burial Ground. The location of the well was determined by using the coordinates of the sample collected at the bottom of the trench that yielded strontium-90 concentrations of over 300 pCi/L and determining direction of groundwater flow at the high and low river stages. The well was sited outside the burial ground and bisecting the high and low river flow directions (Attachment 2). The well will be drilled to determine the thickness of the unconfined aquifer. The well will be constructed to WAC resource protection well standards 173-160. The screened interval will be 20 ft (or less depending on the thickness of the aquifer). The well will screen the upper portion of the aquifer such that it will monitor the upper portion during high river stage. The well will be developed per contractors procedures and a groundwater sample collected after well acceptance for the following analytes: Strontium -90, Volatile Organics, total Uranium, Anions, Tritium, Chromium, and Hexavalent Chromium. The well will be sampled routinely on a quarterly basis for four quarters and then as annually for selected constituents and biennially for selected constituents (Attachment 3).</p>				
Approvals:				
 RL Project Manager		7/23/08 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
 EP Project Manager		7/29/08 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved

Attachment 1

Attachment 3
of the
Waste Control Plan for the 100-FR-3 Operable Unit, DOE/RL-2004-31

Attachment 3
100-FR-3 Operable Unit Groundwater Well List
 (from Table 1 of DOE/RL-2003-49)
 Shading indicates changes to table

100-FR-3 Wells	100-FR-3 Wells (cont.)	Aquifer Sampling Tubes ^a
199-F1-2	699-66-23	060 ^b
199-F5-1	699-67-51	061 ^b
199-F5-3 ^b	699-69-45 ^b	062
199-F5-4	699-71-30	063
199-F5-42	699-71-52 ^b	064
199-F5-43A	699-74-44	065
199-F5-43B	699-77-36	066
199-F5-44	699-77-54	067
199-F5-45	699-80-43S ^b	068
199-F5-46	699-81-38	069 ^b
199-F5-47	699-82-32 ^b	070 ^b
199-F5-48	699-82-34 ^b	071 ^b
199-F5-6	699-83-47	072 ^b
199-F6-1	699-84-35A ^b	073
199-F7-1	199-F8-7, C6834	074
199-F7-2		075
199-F7-3		076
199-F8-2		077
199-F8-3		078
199-F8-4		080
699-58-24		ATF-1
699-60-32		ATF-2
699-61-37 ^b		ATF-3
699-62-31		ATF-4
699-62-43F		C6302, C6303, C6304
699-63-25A		C6305, C6306, C6307
699-63-55		C6308, C6309, C6310
699-64-27		C6311, C6312, C6313
699-65-50 ^b		C6314, C6315, C6316
699-62-43F		

Seeps

187-1

190-4

207-1

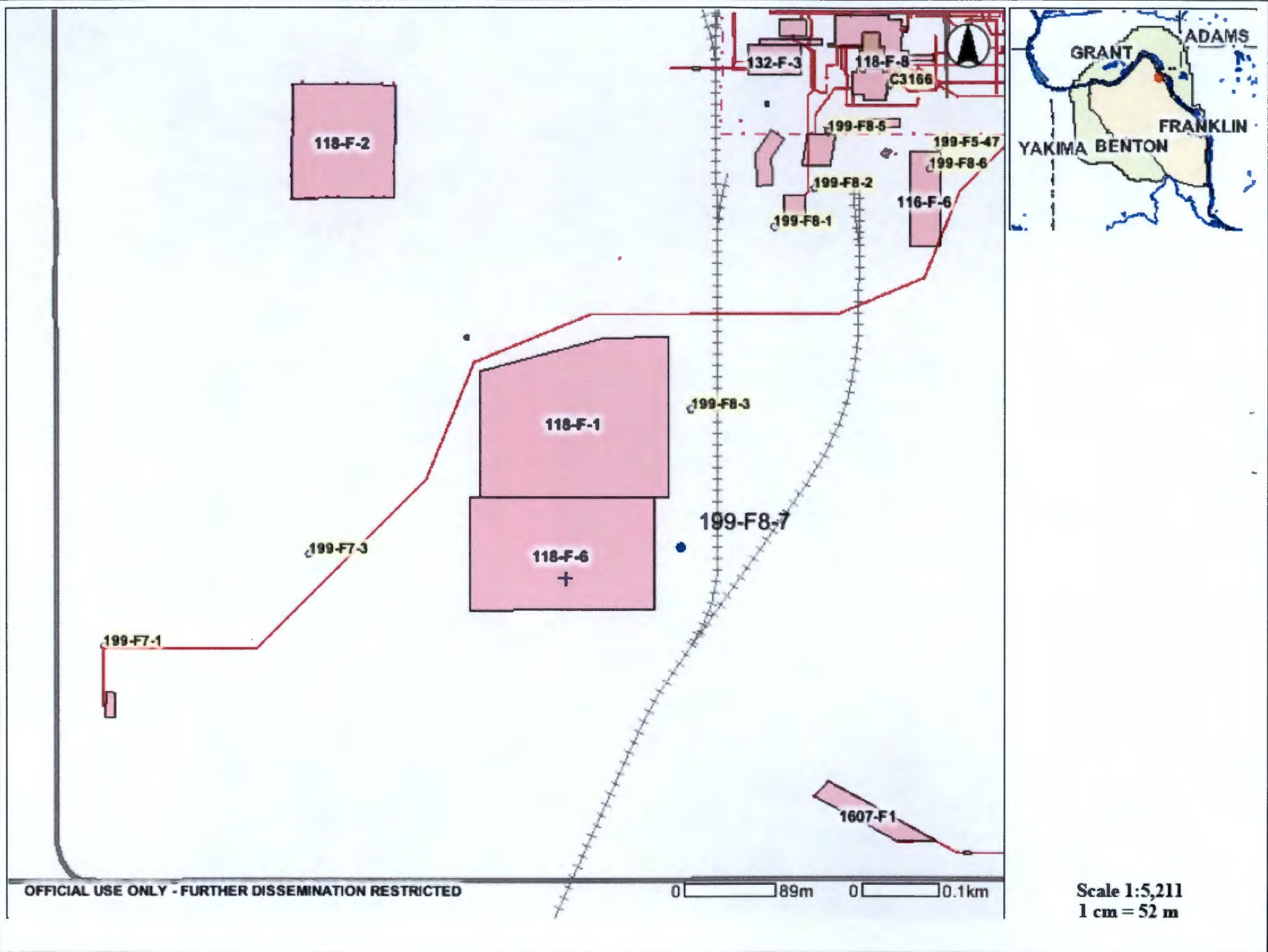
Any other natural seep along the
 shoreline of the 100-FR-3
 groundwater interest area^b

^a One or more of the available tubes at each site may be sampled (see DOE/RL-2003-38)

^b Not listed in DOE/RL-2003-49 but included here for completeness.

Attachment 2

Well 199- F8-7 Location Map



Attachment 3

**Update Table 2 Groundwater Sampling Matrix for the 100-FR-3 Operable Unit
from
*100-FR-3 Operable Unit Sampling and Analysis Plan, DOE/RL-2003-49 Rev 1***

Table 1. Groundwater Sampling Matrix for the 100-FR-3 Operable Unit (shading indicates changes to table)

Well ID	Well, Aquifer Tube, or Spring Name	Status	WAC Compliant	Contaminants of Concern								Supporting Constituents						
				Chromium (hexavalent filtered)	Chromium (total, filtered, unfiltered)	Gross Alpha (indicates uranium)	Nitrate	Strontium-90	Trichloroethene	Tritium	Uranium (total)	Specific Conductance ^(a)	Temperature (a)	Turbidity ^(a)	Water Level ^(a)	Alkalinity	Anions ^(b)	Metals (filtered, unfiltered) ^(c)
Wells																		
A4586	199-F1-2	Active	C		BO		BO					BO	BO	BO	BO	BO	BO	BO
A4587	199-F5-1	Active	N		A	BE	A	BE		BE		A	A	A	A	A	A	A
A4590	199-F5-4	Active	N		A	BO	A		BO	BO		A	A	A	A	A	A	A
A4600	199-F5-6	Active	N		A	BE	A	BE		BE		A	A	A	A	A	A	A
A4591	199-F5-42	Active	C		BO	BO	BO	BO		BO		BO	BO	BO	BO	BO	BO	BO
A4592	199-F5-43A	Active	C		BE	BE	BE	BE		BE		BE	BE	BE	BE	BE	BE	BE
A4593	199-F5-43B	Active	C		BE	BE	BE	BE				BE	BE	BE	BE	BE	BE	BE
A4594	199-F5-44	Active	C		BE	BE	BE	BE		BE		BE	BE	BE	BE	BE	BE	BE
A4595	199-F5-45	Active	C		BO	BO	BO	BO	BO	BO	BO	BO	BO	BO	BO	BO	BO	BO
A4596	199-F5-46	Active	C		BE	A	BE	BE	BE	A	A	A	A	A	A	BE	BE	BE
A4597	199-F5-47	Active	C		A	BE	A			A	A	A	A	A	A	A	A	A
A4598	199-F5-48	Active	C		BO	BO	BO			BO	BO	BO	BO	BO	BO	BO	BO	BO
A4602	199-F6-1	Active	C		BO	BO	BO	BO		BO		BO	BO	BO	BO	BO	BO	BO
A4603	199-F7-1	Active	N		BE		BE		BE			BE	BE	BE	BE	BE	BE	BE
A4604	199-F7-2	Active	C		BE	BE	BE		BE	BE		BE	BE	BE	BE	BE	BE	BE
A4605	199-F7-3	Active	C		BE	BE	BE		BE	BE		BE	BE	BE	BE	BE	BE	BE
A4607	199-F8-2	Active	N		BO	BO	BO			BO	BO	BO	BO	BO	BO	BO	BO	BO
A4608	199-F8-3	Active	C		BO	A	BO		BO	A	A	A	A	A	A	BO	BO	BO
A4609	199-F8-4	Active	C		BE	A	BE			BE	A	A	A	A	A	BE	BE	BE
C6834^(d)	199-F8-7	Active	C	Q	Q		Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
A5275	699-58-24	Active	N		BE		BE					BE	BE	BE	BE	BE	BE	BE

Table 2. (contd)

Well ID	Well, Aquifer Tube, or Spring Name	Status	WAC Compliant	Contaminants of Concern								Supporting Constituents						
				Chromium (hexavalent filtered)	Chromium (total, filtered)	Gross Alpha (indicates uranium)	Nitrate	Strontium-90	Trichloroethene	Tritium	Uranium (total)	Specific Conductance ^(a)	Temperature (a)	Turbidity ^(a)	Water Level ^(a)	Alkalinity	Anions ^(b)	Metals (filtered) ^(c)
A5279	699-60-32	Active	N		BO		BO					BO	BO	BO	BO	BO	BO	BO
A5287	699-62-31	Active	N		BO		BO					BO	BO	BO	BO	BO	BO	BO
A8944	699-62-43F	Active	N		A		A			A		A	A	A	A	A	A	A
A5289	699-63-25A	Active	N		BO		BO			BO		BO	BO	BO	BO	BO	BO	BO
A5291	699-63-55	Active	N		BO		BO			A		A	A	A	A	BO	BO	BO
A5295	699-64-27	Active	N		BE		BE					BE	BE	BE	BE	BE	BE	BE
A5306	699-66-23	Active	N		BE		BE			BE		BE	BE	BE	BE	BE	BE	BE
A5312	699-67-51	Active	N		BO		BO			BO		BO	BO	BO	BO	BO	BO	BO
A5320	699-71-30	Active	N		BO	BO	BO			BO		BO	BO	BO	BO	BO	BO	BO
A5328	699-74-44	Active	N		BO		BO		BO			BO	BO	BO	BO	BO	BO	BO
A5330	699-77-36	Active	N		BE		BE		BE			BE	BE	BE	BE	BE	BE	BE
A5331	699-77-54	Active	N		BO		BO					BO	BO	BO	BO	BO	BO	BO
A5337	699-81-38	Active	N		BE		BE					BE	BE	BE	BE	BE	BE	BE
A5341	699-83-47	Active	N		BE		BE		BE			BE	BE	BE	BE	BE	BE	BE
Aquifer Tubes^(d)																		
B8336, 35	AT-62 (S,M)	Active	NA	A	A		A					A	A	A		A	A	A
B8339	AT-63 (S)	Active	NA	A	A		A					A	A	A		A	A	A
B8341, 40	AT-64 (M,D)	Active	NA	A	A		A	A				A	A	A		A	A	A
B8345, 44	AT-65 (S,M)	Active	NA	A	A		A	A				A	A	A		A	A	A
C4391, 90, 89	AT-F-1 (S,M,D)	Active	NA	A	A		A	A				A	A	A		A	A	A
B8348, 47, 46	AT-66 (S,M,D)	Active	NA	A	A		A	A	A			A	A	A		A	A	A

Table 2. (contd)

Well ID	Well, Aquifer Tube, or Spring Name	Status	WAC Compliant	Contaminants of Concern								Supporting Constituents						
				Chromium (hexavalent filtered)	Chromium (total, filtered)	Gross Alpha (indicates uranium)	Nitrate	Strontium-90	Trichloroethene	Tritium	Uranium (total)	Specific Conductance ^(a)	Temperature (a)	Turbidity ^(a)	Water Level ^(a)	Alkalinity	Anions ^(b)	Metals (filtered) ^(c)
B8351, 50	AT-67 (S,M)	Active	NA	A	A		A					A	A	A		A	A	A
B8354, 53, 52	AT-68 (S,M,D)	Active	NA	A	A		A			A		A	A	A		A	A	A
C4394, 93,92	AT-F-2 (S,M,D)	Active	NA	A	A		A		A	A		A	A	A		A	A	A
C4385, 84, 83	AT-F-3 (S,M,D)	Active	NA	A	A		A		A	A		A	A	A		A	A	A
B8366, 65, 64	AT-72 (S,M,D)	Active	NA	A	A		A			A		A	A	A		A	A	A
B8369, 68, 67	AT-73 (S,M,D)	Active	NA	A	A		A			A		A	A	A		A	A	A
C4388, 87, 86	AT-F-4 (S,M,D)	Active	NA	A	A		A			A		A	A	A		A	A	A
B8371, 70	AT-74 (M,D)	Active	NA	A	A		A			A		A	A	A		A	A	A
B8375, 74, 73	AT-75 (S,M,D)	Active	NA	A	A		A			A		A	A	A		A	A	A
B8378, 77, 76	AT-76 (S,M,D)	Active	NA	A	A		A			A		A	A	A		A	A	A
B8381, 80, 79	AT-77 (S,M,D)	Active	NA	A	A		A					A	A	A		A	A	A
B9384, 83, 82	AT-78 (S,M,D)	Active	NA	A	A		A					A	A	A		A	A	A
B8389, 88	AT-80 (M,D)	Active	NA	A	A		A			A		A	A	A		A	A	A
Springs^(e)																		
NA	SF-187-1	Active	NA	A	A		A			A		A	A	A		A	A	A
NA	SF-190-4	Active	NA	A	A		A			A		A	A	A		A	A	A
NA	SF-207-1	Active	NA	A	A		A			A		A	A	A		A	A	A

Table 2. (contd)

Well ID	Well, Aquifer Tube, or Spring Name	Status	WAC Compliant	Contaminants of Concern								Supporting Constituents						
				Chromium (hexavalent filtered)	Chromium (total, filtered)	Gross Alpha (indicates uranium)	Nitrate	Strontium-90	Trichloroethene	Tritium	Uranium (total)	Specific Conductance ^(a)	Temperature (a)	Turbidity ^(a)	Water Level ^(a)	Alkalinity	Anions ^(b)	Metals (filtered) ^(c)
NA	• Other springs ^(f)	Possible	NA	A	A		A			A		A	A	A		A	A	A
<p>(a) Field measurement.</p> <p>(b) Anions - Analytes include but not limited to chloride, nitrate, and sulfate.</p> <p>(c) Metals - Analytes include but not limited to calcium, potassium, magnesium, and sodium.</p> <p>(d) Aquifer tube sites may include multiple depths: deep (D), medium (M), and shallow (S). Each aquifer tube will be sampled for field parameters if conditions permit. If specific conductance in at least one tube is >160 $\mu\text{S/cm}$, samplers will select the tube with the highest specific conductance for laboratory analyses. However, if strontium-90 is scheduled at a tube site, all tube depths will be analyzed for strontium-90.</p> <p>(e) Springs sampled if specific conductance is greater than river water.</p> <p>(f) Springs are not always constant from year to year. Samplers elect to collect samples from other springs at their discretion.</p> <p>(g) Well sampled quarterly for 1 year, annual thereafter.</p> <p>C Well is constructed as a WAC 173-160, Part Two resource protection well.</p> <p>N Well construction is not compliant with WAC 173-160, Part Two resource protection requirements.</p> <p>A To be sampled annually.</p> <p>BE To be sampled biennially in even-numbered fiscal years (e.g., fiscal year 2006).</p> <p>BO To be sampled biennially in odd-numbered fiscal years (e.g., fiscal year 2005).</p> <p>NA Not applicable.</p>																		