

TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 567	TPA CHANGE NOTICE FORM	Date: March 18, 2013
Document Number, Title, and Revision: DOE/RL-2010-72, Sampling Analysis Plan for Eighteen Remediation Wells in the 200-ZP-1 Operable Unit, Revision 1 1217440		Date Document Last Issued: September 21, 2012
Originator: Mark Byrnes		Phone: 509 373-3996

Description of Change:

In Table 3-1, Well Sample/Measurement Locations and Depth, of the Sampling Analysis Plan needs to be revised to reflect new sampling requirements.

Briant Charboneau and Emerald Laija agree that the proposed change
DOE **Lead Regulatory Agency**
modifies an approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement*.

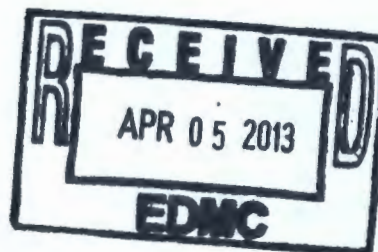
New sampling requirements for Wells IW-10 and IW-15 will be implemented due to budget restraints.

The deleted text is indicated by ~~striketrough~~ on Table 3-1 on page 3-2 and inserted text is indicated by double underline.

Note: Include affected page number(s)

Justification and Impacts of Change:

Since the IW-10 and IW-15 wells are in non-contaminated areas, modification of the sampling requirements for IW-10 and IW-15 is a reasonable and cost effective change.

**Approvals:**

<u>BRIANT CHARBONEAU</u> DOE Project Manager	<u>4-2-2013</u> Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
<u>Emerald Laija</u> EPA Project Manager	<u>4/2/2013</u> Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
_____ Ecology Project Manager	_____ Date	<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved

Table 3-1. Well Sample/Measurement Locations and Depth

Sampling Location	Vadose Zone Sampling Depth, Frequency, and Analysis (ft bgs)	Aquifer Sampling Depth, Frequency, and Analysis (ft bgs)	
		Water Samples	Soil Samples (Sediment) Below Water Table ^a
EW-11, EW-13, EW-14, EW-17, EW-20, IW-1, IW-2, IW-3, IW-7, IW-8, IW-9, IW-10, IW-12, IW-14, IW-15, IW-16, IW-17, and IW-23	Ground surface to water table at each of the 18 wells: During drilling, archive grab samples for geological purposes will be collected every 5 ft and where lithology changes occur in one-pint jar and a chip tray from the drill cuttings.	<p>During drilling, water samples to be collected (in accordance with Section 3.5.6) at 20 ft intervals throughout aquifer, unless visual observation in aquifer material change by the field geologist calls for 10 ft intervals for further clarification:</p> <ul style="list-style-type: none"> • Carbon tetrachloride, technetium-99, and nitrate quick-turnaround samples^b • Table 1-2 constituents at standard turnaround time (in accordance with Table 1-7) • Field screening parameters (temperature, pH, dissolved oxygen, specific conductance, and NTU) 	<p>During drilling, soil samples to be collected:</p> <ul style="list-style-type: none"> • Every 5 ft, grab archive samples will be collected and where lithology changes occur in one-pint jar and a chip tray from the drill cuttings. • Every 20 ft, in correlation with aquifer water samples, grab two composite soil samples in pint jars from drill cuttings over the 20 ft interval for field screening grain-size (sieve) analysis
<u>IW-10, IW-15</u>		<p><u>During drilling, water samples including field screening parameters (temperature, pH, dissolved oxygen, specific conductance, and NTU) are to be collected (in accordance with Section 3.5.6) at the water table, the top of the Ringold Lower Mud, 10 ft below the mud, and at the basalt.</u></p>	

a. If field screening instruments indicate radiological contamination above background at a given interval, grab two additional pint jar samples. Send one pint jar for 24-hour turnaround gamma-energy analysis and one additional jar for testing based on the gamma-energy analysis results (as determined by the groundwater remediation manager).

b. If samples have elevated organic concentrations, an "E" flag may be applied to the data due to a lack of time for dilutions and re-runs on a quick-turnaround time. The standard turnaround time sample will account for dilutions and re-runs, as applicable.

c. Samples not used should be disposed in accordance with Section 3.6.

bgs = below ground surface

EW = extraction wells

IW = injection wells

NTU = nephelometric turbidity unit