Change Number	Federal Facility Agreement and Consent Order Change Control Form	Date
M-15-01-06	Do not use blue ink. Type or print using black ink.	12/13/01

Originator
M. J. Furman

Phone
373-9630

Class of Change

[ ] I - Signatories [ ] II - Executive Manager [X] III - Project Manager

Change Title
Modifications to the Groundwater Sampling and Analysis for the 100-FR-3 Operable Unit Groundwater Sampling Project

Description/Justification of Change

Change quarterly Sr-90 sampling for well 199-F5-1 to annual sampling. Remove 199-F5-3 from well list due to inability to obtain samples (well dry).

The attached Tables 1 and 2 summarize the changes to 100-FR-3 sampling. Minor modifications to the list of specific wells used and constituents analyzed may occur to meet the changing field conditions and the results of data evaluation.

Impact of Change

Information gathered from annual sampling will continue to adequately reflect groundwater conditions.

Affected Documents
1) Remedial Investigation/Feasibility Study Work Plan for the 100-FR-3 Operable Unit, Hanford Site, Richland, WA; DOE/RL-91-53, September 1992. 2) 100 NPL Agreement/Change Control Form #39, "100-FR-3 Operable Unit Groundwater Monitoring Network," EPA approval December 1992; 3) Federal Facility Agreement and Consent Order Change Control Form, Change Number M-15-96-06, 4) Federal Facility Agreement and Consent Order Change Control Form, Change Number M-15-99-02.

Approvals

[signature] for M. Furman 12/13/01 ✓ Approved ___ Disapproved
DOE Date

[signature] 12-17-01 ✓ Approved ___ Disapproved
EPA Date

___ ___ Approved ___ Disapproved
Ecology Date

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Table 1. Sampling and Analysis Schedule for 100-FR-3 Groundwater Project

Well Number	Facility Monitored/Purpose	Schedule	Program	Change
199-F1-2	Lewis canal/near river	A	FRRI	None
199-F5-1	116-F-2 Liquid waste disposal trench/near river	A	FRRI	Quarterly to Annual Sr-90 Sampling
199-F5-3	116-F-2 Liquid waste disposal trench/near river	A	FRRI/S	Removed from schedule - dry
199-F5-4	105-F Reactor building effluent disposal	2-O	FRRI	None
199-F5-5	116-F-9 Animal farm liquid effluent	N/A	N/A	Reserve
199-F5-6	Biological and pharmacological laboratory effluent	A	FRRI/S	None
199-F5-42	107-F Retention basin/near river	A	FRRI	None
199-F5-43A	107-F Retention basin/near river	A	FRRI	None
199-F5-43B (deep well)	107-F Retention basin/near river	A	FRRI	None
199-F5-44	Biological and pharmacological laboratory effluent/near river	A	FRRI	None
199-F5-45	105-F Reactor building effluent	2-O/ Q(NO_3)	FRRI	None
199-F5-46	105-F Reactor building effluent	A/Q(Cr^{+6})	FRRI/S	None
199-F5-47	105-F Reactor building effluent	2-E	FRRI/S	None
199-F5-48	105-F Reactor building effluent	2-E	FRRI	None
199-F6-1	116-F-2 Liquid waste disposal trench/near river	A	FRRI	None
199-F7-1	Background/TCE plume	2-E	FRRI/S	None
199-F7-2	116-F-1 "Lewis" canal	2-E	FRRI	None
199-F7-3	Background/TCE plume	2-O	FRRI/S	None
199-F8-2	105-F Reactor building effluent	2-E	FRRI/S	None
199-F8-3	Background/118-F-1 solid waste burial ground #2	2-O	FRRI/S	None
199-F8-4	Area downgradient of facilities	A	FRRI	None
699-71-30	Background/downgradient	2-O	FRRI	None
699-74-44	Background/TCE plume	N/A	N/A	Reserve
699-77-36	Background/TCE plume	2-E	FRRI	None
699-80-43B	Background/TCE plume	N/A	N/A	Reserve
699-81-38	Background/TCE plume	2-O	FRRI	None
699-82-32	Background	N/A	N/A	Reserve
699-82-34	Background	N/A	N/A	Reserve
699-83-36	Background	N/A	N/A	Reserve
699-83-47	Background	2-E	FRRI/S	None
699-84-35A	Background(See Table 2)	2-O	FRRI/S	None
Seep 187-1	Area/shoreline exposure	A	FRRI	None
Seep 190-4	Area/shoreline exposure	A	FRRI	None
Seep 207-1	Area/shoreline exposure	A	FRRI	None

Notes: 2-E = biennial sampling, even years (starting 1998), A = annual sampling, 2-O = biennial sampling, odd years (starting 1997), S = Surveillance Monitoring, FRRI = 100-FR-3 Remedial Investigation
N/A = not applicable/decommissioned well

Table 2. Analysis Suite Codes for the 100-FR-3 Groundwater Project

Analysis/Parameter	Constituent	
Metals by routine ICP (EPA 6010A-Target Analyte List) Note: Filtered samples only for all metal analysis	Aluminum Antimony Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	Iron Magnesium Manganese Nickel Potassium Silver Sodium Vanadium Zinc
Anions by IC (EPA 300.0)	Chloride Fluoride	Nitrate Sulfate
Volatile organics	TCL (including TCE)**	
Radionuclide screening	Gross alpha Gross beta Activity scan*	
Specific radionuclides	Strontium-90 Tritium	
Field parameters	pH Specific conductance Temperature Turbidity	

Note: * = Well 699-84-35A only, ICP= Inductively coupled plasma
IC = Ion chromatography, ** - TCL samples obtained from wells identified as monitoring "TCE plume" in Facility Monitored/Purpose column of Table 1.
Constituent selection based on TPA Change Control Form M-15-96-06, August 1996.