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04-RCA-0077

FEB 23 2004

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**EDMC**

Addressees:

HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) CHANGE CONTROL FORM M-24-02-02, "OVERALL STRATEGY AND APPROACH FOR GROUNDWATER PROTECTION, MONITORING AND REMEDIATION UNDER TRI-PARTY AGREEMENT MILESTONE SERIES M-024"

The attached change control form (Attachment 1) finalizes the tentative agreements made by the U.S. Department of Energy, Richland Operations Office (RL), the State of Washington Department of Ecology (Ecology), and the U.S. Environmental Protection Agency (EPA), hereinafter referred to as the Parties, on the overall strategy and approach for groundwater protection, monitoring and remediation. This change package has undergone public comment and a Response to Comments document has been prepared and will be jointly transmitted to the commentors. It is the Parties' belief that this provides Hanford with a more efficient use of resources and funds while addressing the requirements of both state and federal law. The Tri-Party Agreement change package was developed and found mutually agreeable to the Parties. This integrated strategy aligns groundwater protection, monitoring and remediation with the federal budget process. 60374

As agreed to during negotiations, a data quality objective process will be completed at the project manager level by August 1 of each year to reaffirm the remaining wells and recommend any new wells to maintain a four-year commitment (execution year and three outyears) for well installations.

RL directed its Site Contractors to commence work on the first 15 wells on the priority list. Sixteen wells were installed as of December 31, 2003, (seven pursuant to Resource Conservation and Recovery Act requirements, and nine pursuant to Comprehensive Environmental Response Compensation and Liability Act requirements). The well locations and completion dates are identified in Attachment 2.

Addressees  
04-RCA-0077

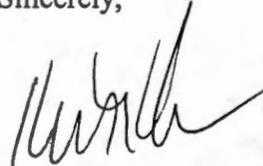
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The Parties continue to believe that the completion of the groundwater detection well network at the single-shell tank waste management areas and wells required to upgrade existing pump-and-treat systems remain the highest priority. The Parties have worked diligently to resolve issues surrounding the installation of the wells and are confident that this integrated approach will be satisfactory to all Parties. The Parties remain vigilant in Hanford cleanup efforts to ensure that this workscope is completed in an effective, efficient, and timely manner with no impact on human health or the environment.

If you have any questions, please contact me, or your staff may contact Joel Hebdon, Director, Regulatory Compliance and Analysis Division, on (509) 372-2400.

Sincerely,



Keith A. Klein  
Manager

RCA:DEJ

Attachments

cc w/attachs:

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D. A. Isom, Admin Record, H6-08

**Wells Completed in CY 2003  
(Tri-Party Agreement Milestone M-024-000)**

The following lists the wells and the completion for wells installed in CY 2003 in support of Tri-Party Agreement Major Milestone M-024-000.

Well Priority	Well Name	Proposed CY of Installation	Program/Facility Name/ Location	Justification/Purpose	Deep Borehole	Comments	Date Completed
1	C-1	2003	RCRA ORP/WMA C SST/north end of WMA perimeter	Site in detection. Upgradient detection/ complete point of compliance (POC) network.		ORP RCRA Detection	9/29/2003
2	C-2	2003	RCRA ORP/WMA C SST/southwest of WMA perimeter	Site in detection. Contaminant detection/ complete downgradient POC coverage.		ORP RCRA Detection	9/29/2003
3	C-3	2003	RCRA ORP/WMA C SST/south of WMA perimeter	Site in detection. Contaminant detection/ complete downgradient POC coverage.		ORP RCRA Detection	9/29/2003
4	C-4	2003	RCRA ORP/WMA C SST/south of WMA perimeter	Site in detection. Contaminant detection/ complete downgradient POC coverage.		ORP RCRA Detection	9/29/2003
5	A-1	2003	RCRA ORP/WMA A-AX SST/southeast of WMA perimeter	Site in detection. Contaminant detection/ complete downgradient POC coverage.		ORP RCRA Detection. GPR southeast corner to select location. Results from this well will be evaluated prior to determining need and location for another well.	09/29/2003
6	A-2	2003	RCRA ORP/WMA A-AX SST/northwest of WMA perimeter	Site in detection. Upgradient detection/ complete (POC) network.		ORP RCRA Detection	9/29/2003
7	S10-1	2003	RCRA RL/216-S-10 Ditch/ mid-section of ditch on south side of WMA perimeter	Site in Detection. Opportunity to integrate with CERCLA borehole drilling in FY 2003		RL Detection (non tank farm)	4/28/2003
8	ZP-31	2003	CERCLA/200-ZP-1	200-ZP-1 OU upgradient monitoring well		RL CERCLA	12/23/2003
9	ZP-3	2003	CERCLA/ZP-1 OU	ZP-1 OU Pump and Treat requires replacement for extraction well #1		RL CERCLA	4/08/2003

**Wells Completed in CY 2003**  
**(Tri-Party Agreement Milestone M-024-000)**

Well Priority	Well Name	Proposed CY of Installation	Program/Facility Name/ Location	Justification/Purpose	Deep Borehole	Comments	Date Completed
10	FF-1	2003	CERCLA/300-FF-5 OU/618-10 Burial Ground	Burial Ground monitoring well		RL CERCLA	3/06/2003
11	FF-2	2003	CERCLA/300-FF-5 OU/618-10 Burial Ground	Burial Ground monitoring well		RL CERCLA	3/06/2003
12	KR-1	2003	CERCLA/100-KR-4 OU/River	Chromium extraction/performance monitoring		RL CERCLA	02/27/2093
13	KR-2	2003	CERCLA/100-K-R-4 OU/River	Chromium monitoring well		RL CERCLA	02/27/2003
14	HR-1	2003	CERCLA/100 HR-3 OU/River	Chromium monitoring well		RL CERCLA	12/23/2003
15	HR-2	2003	CERCLA/100HR-3 OU/River	Chromium monitoring well		RL CERCLA	12/30/2003
16	HR-3	2003	CERCLA/100HR-3 OU/River	Chromium monitoring well		RL CERCLA	12/30/2003
17	ZP-2	2004	CERCLA/ZP-1 OU	ZP-1 OU Pump and Treat requires replacement and extraction well #4		RL CERCLA	
18	UP-1	2004	CERCLA/200-UP-1 OU/ south of U-17 Crib (K)	Install Well "K" identified on map in Appendix A, DOE/RL-2002-17, Rev. 0.		RL CERCLA	
19	ZP-1	2004	CERCLA/200-ZP-1 OU/Z-9 Crib	DNAPL investigation	X	RL CERCLA	
20	S-1	2004	RCRA RL/WMA S-SX/southeast corner, south of 299-W22-46	Site in Assessment. Delineate existing plume(s)/complete assessment network	X	RL RCRA Assessment	
21	T-1	2004	RCRA RL/WMA T/deep twin to 299-W11-39, northeast corner of WMA	Site in Assessment. Delineate existing plume(s)/deep characterization	X	RL RCRA Assessment	
22	TX-1	2004	RCRA RL/WMA TX-TY/deep twin to 299-W14-13, east of WMA perimeter	Site in Assessment. Delineate existing plume(s)/deep characterization	X	RL RCRA Assessment	
23	A-3	2004	RCRA ORP/WMA A-AX SST west of WMA perimeter	Site in detection. Upgradient detection/complete (POC) network		ORP Detection	
24	B-1	2004	RCRA ORP/WMA B-BX-BY SST/ south side of 241-BX perimeter	Site in assessment. Contaminant detection/ complete downgradient POC coverage.		ORP Detection	

**Wells Completed in CY 2003  
(Tri-Party Agreement Milestone M-024-000)**

Well Priority	Well Name	Proposed CY of Installation	Program/Facility Name/Location	Justification/Purpose	Deep Borehole	Comments	Date Completed
25	B-2	2004	RCRA ORP/WMA B-BX-BY SST/ south side of 241-B perimeter	Site in assessment. Contaminant detection/ complete downgradient POC coverage.		ORP Detection	
26	B-3	2004	RCRA ORP/WMA B-BX-BY SST/east side of 241-B perimeter	Site in assessment. Contaminant detection/ complete downgradient POC coverage.		ORP Detection	
27	U-1	2004	RCRA ORP/WMA U SST/northeast side of WMA perimeter	Site in assessment. Contaminant detection/ complete downgradient POC coverage.		ORP Detection.	
28	U-2	2004	RCRA RL/WMA U/southeast corner, deep twin to 299-W19-41	Site in Assessment. Delineate existing plume(s)/deep characterization	X	RL RCRA Assessment	
29-31	ZP-# UP-#	2004	CERCLA/200-ZP-1 and 200-UP-1 locations TBD	Wells identified in Appendix A, DOE/RL-2002-17, Rev. 0.		RL CERCLA	
32-41	ZP-# UP-#	2005	CERCLA/200-ZP-1 and 200-UP-1 locations TBD	Wells identified in Appendix A, DOE/RL-2002-17, Rev. 0.		RL CERCLA	
42-58	LLBG-1 - 17	42-45 in 2005 46-59 in 2006	RCRA RL/ LLBG/200 West Area LLWMA 3 and 4 perimeter	Seventeen well proposals currently being negotiated as part of LLBG Part-B Permit application. Installation of wells dependent on approval and issuance of Part-B (after 2003)		RL RCRA LLBG (17 proposed locations)	

**Table Explanation:**

Column 1, Well Priority is the overall priority in numeric order.

Column 2, Well Name (temporary), is composed of a letter identifying the site (TSD Facility or Operable Unit), followed by a sequential number for identification.

Column 3 is the proposed calendar year of installation.

Column 4, Program/Facility Name/Location, defines the program (RCRA-ORP, RCRA-RL or CERCLA), the facility name, and a general location.

Column 5, Justification/Purpose, provides the justification and purpose of the well. Note that completing a network assumes no significant change in water table elevation and direction of groundwater flow. Details of the rationale and construction are found in the supporting DQO documents. Wells 59 and 60 are reserved for 200-BP-05 and/or BC Crib monitoring., subject to affirmation through a future DQO process