



Department of Energy
Richland Operations Office
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18-AMRP-0123

JUL 11 2018

Ms. Alexandra K. Smith, Program Manager
Nuclear Waste Program
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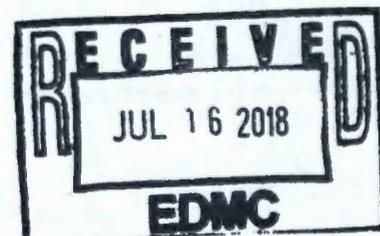
Mr. Dave Einan, Program Manager
Office of Environmental Cleanup
Hanford Project Office
U.S. Environmental Protection Agency
825 Jadwin Avenue, Suite 210
Richland, Washington 99352

Addressees:

COMPLETION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) TARGET DATE M-024-69-T01 AND APPROVED CHANGE CONTROL FORM M-24-18-01

This letter documents completion of Tri-Party Agreement target date M-024-69 -T01, "Conclude discussions of well commitments initiated under M-024-69," on August 1, 2018, with the approved Change Control Form M-24-18-01 (attached).

The U.S. Department of Energy Richland Operations Office appreciates the timely participation from the U.S. Environmental Protection Agency and the Washington State Department of Ecology in establishing the attached M-024 Well Priority List for Fiscal Years 2019 through 2021.



Addressees
18-AMRP-0123

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If you have any questions, please contact me, or your staff may contact, Mike Cline, of my staff, on (509) 376-6070.

Sincerely,



Joe R. Franco, Assistant Manager
for the River and Plateau

AMRP:KLH

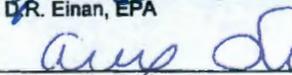
Attachments:

1. Change Control Form M-24-18-01
2. M-024 Well Priority List for
Fiscal Years 2019 through 2021

cc w/attachs:

S. G. Austin, CHPRC
J. Bell, NPT
S. L. Brasher, MSA
R. Buck, Wanapum
S. W. Davis, MSA
S. Hudson, HAB
M. Johnson, CTUIR
R. Longoria, YN
N. M. Menard, Ecology
K. Niles, ODOE
D. Rowland, YN
S. N. Schleif, Ecology

Administrative Record (M-024-69-T01)
Environmental Portal

Change Number M-24-18-01	Federal Facility Agreement and Consent Order Change Control Form		Date 6/18/2018
Originator Michael Cline			Phone 376-6070
Class of Change <input type="checkbox"/> I – Signatories <input checked="" type="checkbox"/> II – Executive Managers <input type="checkbox"/> III – Project Managers			
Change Title Groundwater Protection, Monitoring, and Remediation Well Installation Priority List Update Through CY 2021, Including New Interim Milestone and Target Date			
Description/Justification of Change <p>This change package completes the 2018 Hanford Federal Facility Agreement and Consent Order target date M-024-69-T01 requirement to conclude discussions of groundwater monitoring well commitments initiated under M-024-69 by August 1, 2018, and adds a new interim M-024 milestone to incorporate well installations needed to maintain a three-year rolling prioritized schedule consistent with the site-wide cleanup priorities. Replacement of serviceable monitoring wells not meeting regulatory construction specifications is deferred to support groundwater remediation needs.</p> <p>The Parties have successfully concluded discussions, and by approval of this change control form, establish the interim TPA milestone M-024-72 for completion of CY 2021 well installations. This change package also creates the M-024-72-T01 target date for concluding well discussions by August 1, 2021.</p> <p>The Parties agree that when a monitoring well is drilled and subsequently found to be "dry" that the well will still count toward meeting M-024 well drilling totals.</p> <p style="text-align: center;"><i>Continued on page 2</i></p>			
Impact of Change This change control form provides for continued installation of new groundwater protection, monitoring, and remediation wells. This change control form creates an interim milestone M-024-72 and a target date M-024-72-T01.			
Affected Documents The Hanford Federal Facility Agreement and Consent Order (HFFACO), as amended, and Hanford Site internal planning management, and budget documents (e. g., USDOE and USDOE contractor Baseline Change Control documents, Project Management Plans).			
Approvals			Page 1 of 2
 J.R. Franco, DOE	<u>07/09/2018</u> Date	Approved <input checked="" type="checkbox"/> Disapproved _____	
 D.R. Einan, EPA	<u>7/10/18</u> Date	Approved <input checked="" type="checkbox"/> Disapproved _____	
 A.K. Smith, Ecology	<u>7/10/18</u> Date	Approved <input checked="" type="checkbox"/> Disapproved _____	

Description/Justification of Change (continued)

Approval of this change control form updates the list of monitoring wells planned to be drilled/constructed in CY 2019 and CY 2020, as well as provides the list of wells for CY 2021. Monitoring wells identified to be drilled/constructed in the years CY 2019 through CY 2021 are identified in the attached table. These wells are part of a CERCLA/RCRA-CERCLA past practice operable unit, and are part of an applicable waste control plan or CERCLA waste management plan. The attached table also shows additional wells tentatively planned for later years. Dates not set are pending evaluation of engineering studies, other related reports, and observations as requested by Washington State Department of Ecology.

Authorized Changes

Modifications to the HFFACO are displayed by using double underline to indicate added text and ~~strikeout~~ to indicate deleted text.

Number	Milestone	Due Date
<p><u>M-024-72</u> <u>Lead Regulatory Agency: Ecology</u></p>	<p><u>DOE shall complete the construction of all wells listed for calendar year 2021 and before, as identified in TPA change package M-24-18-01.</u></p> <p><u>This milestone series will continue on a yearly basis until such time that the Parties agree that sufficient RCRA and CERCLA groundwater wells are in place and operating to comply with RCRA and CERCLA requirements for groundwater monitoring, groundwater protection, and groundwater remediation.</u></p> <p><u>These milestones do not preclude or foreclose the imposition of additional groundwater well installations pursuant to RCRA permits or work plans and/or CERCLA work plans. Additional work or modification to work shall be in accordance with the provisions in Article XXX of the TPA Legal Agreement.</u></p>	<p><u>12/31/2021</u></p>
<p><u>M-024-72-T01</u> <u>Lead Regulatory Agency: Ecology</u></p>	<p><u>Conclude discussions of well commitments initiated under M-024-58.</u></p>	<p><u>08/01/2021</u></p>

New FY 2018 #s	Well ID	OU or Area	Well Name	Facility and/or Program	Justification/Purpose/Location	Comment	Completion Calendar Year
1	C9705	300-FF-5	399-1-161	CERCLA	Monitoring Well Aquifer paired with C9691	Accepted 5/31/2017	M-024 CY2019
2	C9706	300-FF-5	399-1-162	CERCLA	Monitoring Well Aquifer paired with C9697	Accepted 5/31/2017	M-024 CY2019
3	C9567	200-UP-1	299-W19-123	CERCLA	UP-1 RDRA Work Plan Monitoring Well #14 Dual Purpose 8" located south of U Plant off of 16th Ave support groundwater plume characterization. Monitor high conc. uranium plume near U Plant	Accepted 7/11/2017	M-024 CY2019
4	C9712	100-KR-4	199-K-228	CERCLA	Monitoring well downgradient of KE Head House and 199-K-11A to monitoring hexavalent chromium and define the plume in that area.	Accepted 8/17/2017	M-024 CY2019
5	C9711	100-KR-4	199-K-227	CERCLA	Monitoring well at K-1 Burial Ground, placed in the southern portion of the former 118-K-1 Burial Ground to monitor potential continuing tritium contributions from residual vadose zone sources.	Accepted 8/17/2017	M-024 CY2019
6	C9713	100-KR-4	199-K-229	CERCLA	Monitoring hexavalent chromium and define the plume in that area. Define migration south of the KW Switch Yard and downgradient of the KW Head House due to a more natural flow gradient	Accepted 8/17/2017	M-024 CY2019
7	C9714	100-KR-4	199-K-230	CERCLA	Monitoring well between KW and KE reactors to connect the hydraulic connection between KE and KW as well as help delineate TCE.	Accepted 8/17/2017	M-024 CY2019
8	C9616	200-PO-1	299-E26-80	RCRA/CERCLA	216-A-29 Ditch - downgradient well New well to be drilled for use in downgradient monitoring in the revised 216-A-29 RCRA monitoring network. As of November 2015, well identified in new RCRA monitoring plan.	Accepted 8/17/2017	M-024 CY2019
9	C9617	200-PO-1	299-E25-238	RCRA/CERCLA	216-A-29 Ditch - downgradient well New well to be drilled for use in downgradient monitoring in the revised 216-A-29 RCRA monitoring network. As of November 2015, well identified in new RCRA monitoring plan.	Accepted 8/17/2017	M-024 CY2019
10	C9618	200-PO-1	299-E25-239	RCRA/CERCLA	216-A-29 Ditch - Replacement downgradient well (Non-WAC comp) under Vit Plant Power line replacement well for A4771 (299-E25-26) Non-WAC compliant due to the lack of a continuous annular seal around the casing. Currently used in RCRA network. Location under power line limits ability to access well for pump repairs and well cleaning. A new well serving the same monitoring purpose should be installed in the general vicinity.	Accepted 8/17/2017	M-024 CY2019
11	C9615	200-PO-1	699-44-43C	RCRA/CERCLA	B-3 Pond and Ditch - downgradient well New well to be drilled for use in upgradient monitoring in the revised 216-B-3 RCRA monitoring network. As of November 2015, well identified in new RCRA monitoring plan. This well also replaces dry well 699-44-43B.	Accepted 8/17/2017	M-024 CY2019
12	C9630	200-PO-1	299-E25-95	RCRA/CERCLA	216-A37-1 Well is planned to improve downgradient coverage at the point of compliance	Accepted 8/17/2017	M-024 CY2019
13	C9632	200-UP-1	699-27-68	CERCLA	Characterize vertical and lateral southern extent of SE Cr plume	Accepted 8/31/2017	M-024 CY2019
14	C9634	200-UP-1	699-29-55	CERCLA	Bound southern extent of SE Cr plume, depends on results from C9632 (699-27-68)	Accepted 9/28/2017	M-024 CY2019
15	C9635	200-UP-1	699-30-70	CERCLA	Bound western extent of SE Cr plume	Accepted 8/31/2017	M-024 CY2019
16	C9737	200-UP-1	699-31-50	CERCLA	Well to bound the southeast chromium plume to the east of well 699-31-53B, in which chromium has been detected at 49 ug/L. The new well is near where the water table transitions from the Ringold Fm to the Hanford fm. It will help to verify the conceptual model that concentrations would decline rapidly when the plume reaches the Hanford farm.	Accepted 12/5/2017	M-024 CY2019
17	C9636	200-UP-1	699-30-73	CERCLA	Bound extent of SE Chrome plume	Accepted 12/14/2017	M-024 CY2019

18	C9608	200-UP-1	699-38-64B	CERCLA	UP-1 RDRA Work Plan Monitoring Well I-129 plume hydraulic control remedy performance	Accepted 4/24/2018	M-024 CY2019
20	C9870	300-FF-5	699-S6-E3	CERCLA	618-10 well will be downgradient from the 618-10 Burial Ground and 316-4 Crib. In accordance with DOE/RL-2014-42, 300-FF-5 Operable Unit Remedy Implementation Sampling and Analysis Plan, the wells should be monitored before, during, and after remediation of the associated waste site. The data will be evaluated to determine whether there is evidence of new contaminant releases to the environment that could impact the effectiveness of the remedy.	Accepted 6/7/2018	M-024 CY2019
19	C9607	200-UP-1	699-39-68	CERCLA	UP-1 RDRA Work Plan Monitoring Well Monitor northern extent of I-129 plume		M-024 CY2019
21	C9919	100-KR-4	199-K-231	CERCLA	Characterize the extent of the CrVI plume between the 183-KE Headhouse and the 118-K-1 Burial Ground (pending results of FY17 monitoring well 199-K-228) South of the 151KE electrical substation.		M-024 CY2019
22	C9920	100-KR-4	199-K-232	CERCLA	Monitoring well between 199-K-144 and 199-K-145 to define hydraulics as well as characterize any CrVI secondary source material that may remain that causes exceedances in aquifer tubes AT-K-3-D,M,S. Northern corner of 116-K-1 Crib		M-024 CY2019
23	C9922	100-KR-4	199-K-234	CERCLA	Update the conceptual site model and support definition/delineation of the Cr(VI), Sr-90, C-14, and tritium plumes downgradient of well 199-K-141		M-024 CY2019
24	TBD	100-KR-4	TBD	CERCLA	Dual Purpose Well - Soil flushing treatability test plan additional well #1		M-024 CY2019
25	TBD	100-KR-4	TBD	CERCLA	Dual Purpose Well - Soil flushing treatability test plan additional well #2		M-024 CY2019
26	C9604	200-UP-1	299-W19-126	CERCLA	PMP Monitoring Well. Monitor I-129, NO3, Tc-99, H-3, and U west of U Plant; source monitoring for I 129, NO3, Tc-99, and U downgradient of 216-U-1/2 Crib. (Mon/Ext; 8 inch) U Plant		M-024 CY2019
27	C9954	200-UP-1	299-W19-131	CERCLA	Bound western extent of uranium plume, dual purpose wells		M-024 CY2019
28	C9955	200-UP-1	299-W20-1	CERCLA	Bound western extent of uranium plume, dual purpose wells		M-024 CY2019
29	C9867	200-PO-1	699-43-43B	RCRA/CERCLA	Replacement for well 699-43-44 due to failed casing, critical downgradient RCRA well B-Pond replacement well (C9867) - RCRA replacement well; recommend delay installation until the Engineering Report is approved by Ecology that identifies the actual location. EER identified well, downgradient of 216-B-3		M-024 CY2019
30	C9914	200-BP-5	299-E27-40	RCRA/CERCLA	Replacement well for 299-E27-4 (which was decommissioned 12-11-17).WMA C. Need PVC.		M-024 CY2019
31	C9869	300-FF-5	TBD	CERCLA	324 well will be downgradient from the 324 Building and the contaminated soil below the B Cell. In accordance with DOE/RL-2014-42, 300-FF-5 Operable Unit Remedy Implementation Sampling and Analysis Plan, the wells should be monitored before, during, and after remediation of the associated waste site. The data will be evaluated to determine whether there is evidence of new contaminant releases to the environment that could impact the effectiveness of the remedy.		M-024 CY2020
32	C9871	200-UP-1	TBD	CERCLA	Replacement of ERDF well (future need for ERDF expansion - planned FY2020) Will need to decommission 699-36-66B		M-024 CY2020
33	C9953	200-UP-1	TBD	CERCLA	Replacement of A5199 699-35-66A Non-Wac compliant due to the lack of a continuous annular seal around the casing		M-024 CY2020

34	C9926	100-HR-3	199-H1-12	CERCLA	Assist in defining the northern extent of the Cr(VI) plume in the area northwest of extraction well 199 H1-32. 100-H Area (Horn)	M-024 CY2020
35	C9931	100-HR-3	199-H1-50	CERCLA	Install new RUM aquifer monitoring well in the northwest 100-H area for plume delineation and geologic characterization.	M-024 CY2020
36	C9933	100-HR-3	699-95-45C	CERCLA	Install new RUM aquifer monitoring well in the southern portion of the Horn area for plume delineation and geologic characterization.	M-024 CY2020
37	C9545	100-HR-3	699-97-47C	CERCLA	Monitoring Well - Prevent escape of mass to the north from the Horn and increase extraction capability.	M-024 CY2020
38	C9750	200-BP-5	699-47-55	CERCLA	Proposed new remedy monitoring wells per the BP-5 Remedial Action Work Plan, Decisional Draft RAWP Cultural completed FY2018. northwest of BY cribs Monitoring Well (far field north well for delineation of Tc 99 and uranium plumes) B Complex	M-024 CY2020
39	C9751	200-BP-5	699-47-53B	CERCLA	Proposed new remedy monitoring wells per the BP-5 Remedial Action Work Plan, Decisional Draft RAWP Cultural completed FY2018. northwest of BY cribs Monitoring well (near-field north well for delineation of Tc 99 and uranium plumes) B Complex	M-024 CY2020
40	C9752	200-BP-5	299-E28-34	CERCLA	Proposed new remedy monitoring wells per the BP-5 Remedial Action Work Plan, Decisional Draft RAWP Cultural completed FY2018. Near field well southeast of WMA B/BX/BY between well 299-E33-37 and the 207-B Retention Basin at bottom of aquifer Dual purpose well (near-field southeast well for delineation of Tc 99 and uranium plumes) B Complex	M-024 CY2020
41	C9753	200-BP-5	299-E27-137B	CERCLA	Proposed new remedy monitoring wells per the BP-5 Remedial Action Work Plan, Decisional Draft RAWP Cultural completed FY2018. Far field well southeast of WMA B/BX/BY between wells 299-E27-19 and 299-E28-5 at top of aquifer (southwest) Dual purpose well (far-field southeast well for delineation of Tc 99 and uranium plumes) B Complex	M-024 CY2020
42	C9739	200-ZP-1	299-W11-98	CERCLA	Proposed new monitoring well MW-2 (A) will help further delineate the northern boundaries of the carbon tetrachloride plume >100 µg/L. The RLM is not expected to be present in this area, so the screen should be completed in the zone of highest carbon tetrachloride concentrations observed during drilling. None of the monitoring wells (other than the recently installed well 299 W5 2) are screened at elevations to delineate the northern extent of these concentrations in this area.	M-024 CY2020
43	C9740	200-ZP-1	699-44-70B	CERCLA	Proposed new monitoring well MW-8 (A/B), screened at two intervals, will help delineate the downgradient extent of contamination found at well 299 W11 87 and help fill the 1,880 m (6,168 ft) data gap in monitoring coverage between wells 299 W11 87 and 699 44 64. The proposed new monitoring well is located upgradient of the 200 West P&T system eastern injection wells and downgradient of the extraction wells. The screen should be completed in the zone of highest carbon tetrachloride concentrations observed during drilling, either below (A) or above (B) the RLM.	M-024 CY2020

44	C9936	200-ZP-1	699-46-61	CERCLA	Proposed new monitoring well MW-6 (A/B) will provide deep monitoring coverage east and northeast of the currently estimated boundary of the carbon tetrachloride plume at 3.4 µg/L. This well will help delineate the low-concentration eastern to northeastern carbon tetrachloride plume boundary. The screen should be completed in the zone of highest carbon tetrachloride concentrations observed during drilling, either below (A) or above (B) the Ringold Formation Lower Mud Unit (RLM). This proposed location was further confirmed when compared to the 200 ZP 1 OU data gap analysis (SGW 61350) for wells above the RLM.	M-024 CY2020
45	C9872	100-FR-3	TBD	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells (C9472 through C9480)	M-024 CY2020
46	C9873	100-FR-3	TBD	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells (C9472 through C9480)	M-024 CY2020
47	C9874	100-FR-3	TBD	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells (C9472 through C9480)	M-024 CY2020
48	C9875	100-FR-3	TBD	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells (C9472 through C9480)	M-024 CY2020
49	C9876	100-FR-3	TBD	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells (C9472 through C9480) replacing Non-WAC well 699-71-30	M-024 CY2020
50	C9877	100-FR-3	TBD	CERCLA	Six 100-FR-3 monitoring wells needed based on phase I wells (C9472 through C9480) replacing Non-WAC 199-F7-1	M-024 CY2020
51	C9726	200-BP-5	299-E35-6	AEA/CERCLA	Downgradient of Trench 94 for AEA. Trench 94 contains Naval reactors from decommissioned vessels and has no groundwater monitoring. Downgradient of Trench 94 for AEA LLWMA-2 monitoring well - East of Trench 94 - Upgradient Contingent on results of geophysical investigations. Trench 94 is on a path to be removed from the permit. If Permit is adjusted, this well is not required for RCRA monitoring, however, AEA monitoring is still required. Coordinate with BP-5 OU.	M-024 CY2020
52	TBD	200-BP-5	TBD	AEA/CERCLA	216-C-1 Crib received over 24 M liters of process waste from semi works. No groundwater monitoring history. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with EA-1 OU and BP-5 OU, Semiworks Area	M-024 CY2020
53	TBD	200-BP-5	TBD	AEA/CERCLA	216-C-9 Trench received over 1 B liters of waste water from strontium semiworks. No groundwater monitoring history. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with EA-1 OU and BP-5 OU, Semiworks Area	M-024 CY2020
54	C9972	200-ZP-1	TBD	RCRA/CERCLA	LLWMA-4 monitoring well - west side - upgradient There is no upgradient well; contingent on future monitoring requirements; need a revised monitoring plan; 299-W17-1 and 299-W18-21 provide monitoring support. However obtaining sample through bailer for W-18-21, but likely to go dry since water level isn't rising and 299-W18-22 not really representative. EER identified well in SGW-60584	M-024 CY2020
55	C9625	200-ZP-1	299-W10-40	RCRA/CERCLA	LLWMA-3 Monitoring well Rev 9 Final status point of compliance well - East of Mixed-Waste Trenches 31 & 34 downgradient. Complete compliance-point monitoring network for permit conditions. Need a revised monitoring plan. Replacing well 299-W10-13. Rev 8c of Permit, pending agreement of final location with regulators	M-024 CY2020

56	C9626	200-ZP-1	299-W10-41	RCRA/CERCLA	LLWMA-3 Monitoring well - Replacing well 299-W10-20; East of Mixed-Waste Trenches 31 and 34 - Downgradient complete the compliance-point monitoring network for Permit conditions. Rev 8c of Permit, pending agreement of final location with regulators	M-024 CY2020
57	C9627	200-ZP-1	299-W10-42	RCRA/CERCLA	LLWMA-3 Monitoring well - Final status point of compliance well. East of Mixed-Waste Trenches 31 & 34 downgradient. Complete compliance-point monitoring network for permit conditions. Completed TPA-CN for monitoring plan. Rev 8c of Permit, pending agreement of final location with regulators	M-024 CY2020
58	C9605	200-UP-1	299-W19-127	CERCLA	PMP Monitoring Well. Monitor primarily for NO3 and Tc-99 downgradient from WMA U; source monitoring for U downgradient of 216-U-14 Ditch. WMA U	M-024 CY2020
59	C9606	200-UP-1	299-W19-128	CERCLA	PMP Monitoring Well. Monitor primarily for NO3 and Tc-99 downgradient from WMA U; source monitoring for U downgradient of 216-U-14 Ditch. WMA U	M-024 CY2020
60	TBD	200-UP-1	TBD	CERCLA	PMP U-3 Delineate high concentration portion of uranium plume between 299-W19-123 and 299-W19-36 to support optimization of uranium extraction	M-024 CY2020
61	TBD	100-KR-4	TBD	WAC/CERCLA	Replacement of A4652 199-K-23 KE Basins Non-WAC compliant due to the lack of a continuous annular seal around the casing - penetrates a contaminated crib	M-024 CY2021
62	C9568	200-UP-1	299-W19-124	CERCLA	PMP Monitoring Well. Monitor I-129, NO3, Tc-99, H-3, and U west of U Plant; source monitoring for I 129, NO3, Tc-99, and U downgradient of 216-U-1/2 Cribs. U Plant	M-024 CY2021
63	C9928	100-HR-3	699-98-50	CERCLA	Install new RUM aquifer monitoring well in the north central Horn area for plume delineation and geologic characterization. 100-D Area	M-024 CY2021
64	C9609	200-UP-1	699-33-70	CERCLA	PMP U-4 Address uncertainty concerning northern extent of uranium plume downgradient of the southern end of U Plant	M-024 CY2021
65	C9930	100-HR-3	699-95-48C	CERCLA	Needed for extraction or monitoring depending upon concentrations found in the first water bearing unit of the RUM. Recommend well for pump and treat optimization	M-024 CY2021
66	C9566	200-UP-1	299-W22-123	AEA/CERCLA	Replacement well for 299-W22-20 which is sample dry. Monitor Cr, I-129, NO3, Tc-99, and H-3 downgradient of WMA S-SX and REDOX Plant; source monitoring for Cr, NO3, and 1,4-dioxane downgradient of 216-S-20 crib (AEA description "216-S-20, S-22, immediately downgradient of Cr,I-129, 1,4-Dioxane") REDOX	M-024 CY2021
67	TBD	100-HR-3	TBD	CERCLA	New RUM well next to 183-H B 100-H	M-024 CY2021
68	C9921	100-KR-4	199-K-233	CERCLA	Define inland plume extent of CrVI plume that straddles the 100-KR/100-NR GWIA boundary Near 100-N-96 military camp CRR for this project (HCRC#2017-100-008/ECR-2017-118) has reached an "Adverse Effect" finding. This means that, moving forward, DOE will develop an MOA in consultation with the Tribes and SHPO.	M-024 CY2021
69	TBD	100-KR-4	TBD	CERCLA	Planning for one monitoring wells in each FY Pump and Treat Optimization Plan	M-024 CY2021
70	TBD	100-KR-4	TBD	CERCLA	Planning for one monitoring wells in each FY Pump and Treat Optimization Plan	M-024 CY2021
71	TBD	200-ZP-1	TBD	RCRA/CERCLA	Replacement of C3396 299-W10-8 Sample dry. Consider replacement once 200W P&T reaches max operating conditions. Also non-WAC compliant due to the lack of a continuous annular seal around the casing Successfully sampled in 2016. Part of Rev 9 Permit WMA-TX/TY	M-024 CY2021

72	C9629	200-BP-5	299-E28-33	RCRA/CERCLA	LLWMA-1 monitoring well - SE corner of LLWMA-1 required by new RCRA monitoring plan. To be located between wells 299-E28-26 and 299-E28-27. Will be downgradient and needed once 299-E33-361 starts pumping	M-024 CY2021
73	C9868	200-PO-1	TBD	RCRA/CERCLA	Replacement well for 299-E25-41, casing corrosion identified in the screen interval. Potential for well going sample dry. Showing valuable information on upgradient contaminants that have come onto the A-AX site that are not necessarily associated with A-AX source. EER identified well in SGW-60586 Need PVC. WMA-A-AX	M-024 CY2021
74	C8926	200-UP-1	299-W19-112	RCRA/CERCLA	Replacement for A4945 299-W19-12 SST U monitoring well east of U Farm RCRA/WAC compliant. Non-WAC compliant due to the lack of a continuous annular seal around the casing. RCRA monitoring well for WMA U. Also, this well is forecast to become sample dry in 2018. WMA U	M-024 CY2021
75	C9970	200-ZP-1	TBD	RCRA/CERCLA	Replacement of B8549 299-W14-13 expected to go dry in 2019. Installed low-purge volume bladder pump in 2016 anticipating that sampling with low-purge volume pump will allow us to continue to sample these wells. Successfully sampled in 2016. Part of Rev 9 Permit WMA-TX/TY	M-024 CY2021
76	TBD	200-UP-1	TBD	CERCLA	PMP Monitoring well. Delineate downgradient extent of I-129 plume and assess hydraulic containment remedy approximately 500 m southeast of 699-35-66A	M-024 CY2021
77	TBD	200-UP-1	TBD	CERCLA	PMP Monitoring well. Address uncertainty concerning northern extent of uranium plume downgradient of the southern end of U Plant	M-024 CY2021
78	TBD	200-UP-1	TBD	CERCLA	PMP Monitoring well. Delineate downgradient extent of I-129 plume and assess hydraulic containment remedy approximately equidistant from 699-36-66B and injection wells 699-E20-1 and 699-E20-2; also delineate extent of NO3 plume approximately 500 m southeast of 699-38-65	M-024 CY2021
79	TBD	200-UP-1	TBD	AEA/CERCLA	PMP Monitoring Well. Source area monitoring for U, NO3, H-3, and strontium-90 downgradient of the 216 U-8 crib. 216-U-8 Crib received 379 M liters of process condensate from from 221-U and 224-U buildings. Received largest uranium release inventory in 200W. Historical groundwater monitoring confirmed groundwater contamination. No local groundwater monitoring since 1995. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1 OU and UP-1 OU. 216-U-8	M-024 CY2021
80	TBD	200-UP-1	TBD	AEA/CERCLA	PMP Monitoring Well. Source area monitoring for I-129 downgradient of 216-S-9 crib. 216-S-9 received 52 M liters of acidic process condensate from REDOX. No down gradient groundwater monitoring since 2012. Increasing nitrate concentration transient noted prior to end of monitoring. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1 and UP-1 OUs.	M-024 CY2021
81	TBD	200-UP-1	TBD	RCRA/CERCLA	PMP Monitoring Well. Shallow source area monitoring, potentially for Cr, I-129, NO3, Tc-99, and H-3, downgradient of the 216 S-23 crib; to be paired with existing downgradient well (299-W19-6) that is screened deep	M-024 CY2021

82	C9611	200-UP-1	699-43-58	CERCLA	PMP Monitoring well. Verify connection of NO3 plume with BP-5 NO3 plume. Remedy performance monitoring wells. Delineate magnitude of NO3 concentration in an area with few monitoring wells.	M-024 CY2021
83	TBD	200-UP-1	TBD	CERCLA	PMP Monitoring well. Delineate downgradient extent of I-129 plume and assess hydraulic containment remedy approximately equidistant from 699-36-66B and injection wells 699-E20-1 and 699-E20-2; also delineate extent of NO3 plume approximately 500 m southeast of 699-38-65	M-024 CY2021
84	TBD	100-KR-4	TBD	WAC/CERCLA	Replacement of A4643 199-K-11 KE Basins Non-WAC compliant due to the lack of a continuous annular seal around the casing	M-024 CY2021
85	TBD	100-KR-4	TBD	CERCLA	Planning for one monitoring wells in each FY Pump and Treat Optimization Plan	M-024 CY2021
86	TBD	100-KR-4	TBD	WAC/CERCLA	Replacement of A4644 199-K-13 KE Basins Non-WAC compliant due to the lack of a continuous annular seal around the casing	M-024 CY2021
87	C9718	100-HR-3	199-D2-14	CERCLA	Needed for extraction or monitoring depending upon concentrations found in the first water bearing unit of the RUM. Recommend well for pump and treat optimization	M-024 CY2021
88	C9722	100-HR-3	1499-D7-7	CERCLA	Needed for extraction or monitoring depending upon concentrations found in the first water bearing unit of the RUM. Recommend well for pump and treat optimization Northern 100-D 100-D	M-024 CY2021
89	C9929	100-HR-3	199-D11-1	CERCLA	Install new RUM aquifer monitoring well in the northwest Horn area for plume delineation and geologic characterization. 100-D Area	M-024 CY2021
90	C9934	100-HR-3	699-96-42B	CERCLA	Install new RUM aquifer monitoring well in the border between 100-H and the Horn for plume delineation and geologic characterization.	M-024 CY2021
91	C9738	200-ZP-1	299-W6-17	CERCLA	Proposed new monitoring well MW-3 (A/B/C), screened at one or two intervals, will fill the gap in the monitoring network between upgradient wells 299 W10 33 and 299 W14 11 and downgradient wells 299 W11 86 and 299 W11 87. This data gap represents about 1,325 m (4,347 ft) in the middle of the 200 West P&T extraction well field, with upgradient and downgradient carbon tetrachloride concentrations >1,000 µg/L. The screen should be completed in the zone of highest carbon tetrachloride concentrations observed during drilling, either below (A) the RLM (if present), to help delineate the northern extent of the deep carbon tetrachloride found at well 299 W13 1, or above (in two anticipated intervals, B and C) the RLM.	Placeholder
92	TBD	200-ZP-1	TBD	CERCLA	200-ZP-1 CERCLA Monitoring Well MW5A&B Performance Monitoring Plan (DOE/RL-2009-115 Rev. 2) drilling single wells with multiple screened intervals and sampling them with low-flow Spectra device to avoid mixing between.	Placeholder
93	C9927	200-ZP-1	TBD	CERCLA	200-ZP-1 CERCLA Monitoring Well MW4A&B Performance Monitoring Plan (DOE/RL-2009-115 Rev. 2) drilling single wells with multiple screened intervals and sampling them with low-flow Spectra device to avoid mixing between.	Placeholder
94	C9969	200-ZP-1	TBD	RCRA/CERCLA	Replacement well for 299-W14-15 expected to go dry in 2019. Installed low-purge volume bladder pump in 2016 anticipating that sampling with low-purge volume pump will allow us to continue to sample these wells and not have to replace them. Water level decreased. Part of Rev 9 Permit, EER well identified in SGW-60576	Placeholder

95	C9971	200-ZP-1	TBD	RCRA/CERCLA	Replacement well for 299-W14-18 expected to go dry in 2019. Installed low-purge volume bladder pump in 2016 anticipating that sampling with low-purge volume pump will allow us to continue to sample these wells. Successfully sampled in 2016. Part of Rev 9 Permit, EER well identified in SGW-60576	Placeholder
96	TBD	200-ZP-1	TBD	RCRA/CERCLA	Replacement of B8548 299-W10-26 which expected to go dry in 2016 - Recommend bladder pump to be installed. WMA-TX/TY	Placeholder
97	TBD	200-ZP-1	TBD	RCRA/CERCLA	Replacement of B8547 299-W14-14 which expected to go dry in 2016 installed low-purge volume bladder pumps anticipating that sampling with low-purge volume pumps will allow us to continue to sample these wells and not have to replace them WMA-TX/TY	Placeholder
98	TBD	200-UP-1	TBD	RCRA/CERCLA	EER evaluation, 216-S-10 Chrome characterization well #1 - upgradient of S-10 pond, evaluation for RCRA Rev 9 final status (SGW-60585)	Placeholder
99	TBD	200-UP-1	TBD	RCRA/CERCLA	EER evaluation, 216-S-10 Chrome characterization well #2 - downgradient, north-end of S-10 ditch, evaluation for RCRA Rev 9 final status (SGW-60585)	Placeholder
100	TBD	100-BC-5	TBD	CERCLA	To support the anticipated ROD. These additional proposed wells appear in the draft Proposed Plan to be finished Oct 1, 2018	Placeholder
101	TBD	100-BC-5	TBD	CERCLA	To support the anticipated ROD. These additional proposed wells appear in the draft Proposed Plan to be finished Oct 1, 2018	Placeholder
102	TBD	100-BC-5	TBD	CERCLA	To support the anticipated ROD. These 10 proposed wells appear in the draft Proposed Plan to be finished Oct 1, 2018	Placeholder
103	TBD	100-BC-5	TBD	CERCLA	To support the anticipated ROD. These 10 proposed wells appear in the draft Proposed Plan to be finished Oct 1, 2018	Placeholder
104	TBD	100-BC-5	TBD	CERCLA	To support the anticipated ROD. These 10 proposed wells appear in the draft Proposed Plan to be finished Oct 1, 2018	Placeholder
105	TBD	100-BC-5	TBD	CERCLA	To support the anticipated ROD. These 10 proposed wells appear in the draft Proposed Plan to be finished Oct 1, 2018	Placeholder
106	TBD	100-BC-5	TBD	CERCLA	To support the anticipated ROD. These 10 proposed wells appear in the draft Proposed Plan to be finished Oct 1, 2018	Placeholder
107	TBD	100-BC-5	TBD	CERCLA	To support the anticipated ROD. These 10 proposed wells appear in the draft Proposed Plan to be finished Oct 1, 2018	Placeholder
108	TBD	100-BC-5	TBD	CERCLA	To support the anticipated ROD. These 10 proposed wells appear in the draft Proposed Plan to be finished Oct 1, 2018	Placeholder
109	TBD	100-BC-5	TBD	CERCLA	To support the anticipated ROD. These 10 proposed wells appear in the draft Proposed Plan to be finished Oct 1, 2018	Placeholder
110	TBD	100-BC-5	TBD	CERCLA	To support the anticipated ROD. These 10 proposed wells appear in the draft Proposed Plan to be finished Oct 1, 2018	Placeholder
111	TBD	100-BC-5	TBD	CERCLA	To support the anticipated ROD. These 10 proposed wells appear in the draft Proposed Plan to be finished Oct 1, 2018	Placeholder
112	TBD	200-UP-1	TBD	RCRA/CERCLA	Upgradient proposed well, will be constructed with 10.7 m (35 ft) of screen placed from the top of the uppermost portion of the unconfined aquifer. EER analysis indicates this well will remain upgradient of WMA U under future P&T scenarios evaluated. Identified in EER SGW-60578 WMA U	Placeholder

113	TBD	200-UP-1	TBD	RCRA/CERCLA	EER evaluation, 216-S-10 Chrome characterization well #3 - downgradient of S-10 pond, evaluation for RCRA Rev 9 final status (SGW-60585)	Placeholder
114	TBD	200-UP-1	TBD	RCRA/CERCLA	EER evaluation, 216-S-10 Chrome characterization well #4 - downgradient of S-10 pond, evaluation for RCRA Rev 9 final status (SGW-60585)	Placeholder
115	TBD	200-BP-5	TBD	RCRA/CERCLA	EER identified well in SGW-60588, WMA C	Placeholder
116	TBD	200-BP-5	TBD	CERCLA	integration well with EA-1 at 216-B-55 crib. B Plant	Placeholder
117	TBD	200-BP-5	TBD	CERCLA	integration well with EA-1 at 216-B-55 crib. B Plant	Placeholder
118	C9543	100-HR-3	199-D5-161	CERCLA	Monitoring Well - in 100-D in the northern plume for delineation on the eastern side - east of DR reactor. There is currently very little plume control location on the east side of the plume. Concentrations in wells 199-D5-18 and others in that area were increasing in 2015. Well would be used to ensure that the plume is not migrating to the east due to the increased flow rates into injection wells at DX.	Placeholder
119	TBD	100-HR-3	TBD	CERCLA	Monitoring Well - Planning for two monitoring wells in each FY Pump and Treat Optimization Plan 2022	Placeholder
120	TBD	100-KR-4	TBD	CERCLA	Within footprint of former 116-KE-1 Gas Condensate Crib - characterization and monitoring potential release of C-14, H-3, nitrate from vadose zone	Placeholder
121	TBD	100-KR-4	TBD	CERCLA	Within footprint of former 116-KW-1 Gas Condensate Crib - characterization and monitoring potential release of C-14, H-3, nitrate from vadose zone	Placeholder
122	TBD	200-ZP-1	TBD	CERCLA	P&T monitoring well #9 (MW9A) in the Performance Monitoring Plan DOE/RL-2009-115 Rev. 3	Placeholder
123	TBD	200-ZP-1	TBD	CERCLA	P&T monitoring well #10 (MW10A) in the Performance Monitoring Plan DOE/RL-2009-115 Rev. 3	Placeholder
124	TBD	200-ZP-1	TBD	CERCLA	P&T monitoring well #11 (PMP Wells)	Placeholder
125	TBD	200-ZP-1	TBD	CERCLA	P&T monitoring well #12 (PMP wells)	Placeholder
126	TBD	200-PO-1	TBD	RCRA/CERCLA	Replacement well for A4766 (299-E25-2) Non-WAC compliant due to the lack of a continuous annular seal around the casing. Currently used with the WMA-A-AX RCRA well network as a downgradient well and providing acceptable data. EER identified well in SGW-60586	Placeholder
127	C9968	200-PO-1	TBD	RCRA/CERCLA	Downgradient of the 216-A-29 Ditch, will be constructed with 10.7 m (35 ft) of screen placed from approx. 0.3 m (1 ft) above and extending to 10.4 m (34 ft) below the uppermost portion of the unconfined aquifer. EER identified well in SGW-60592	Placeholder
128	TBD	200-PO-1	TBD	RCRA/CERCLA	Downgradient of the 216-A-29 Ditch, will be constructed with 10.7 m (35 ft) of screen placed from approx. 0.3 m (1 ft) above and extending to 10.4 m (34 ft) below the uppermost portion of the unconfined aquifer. EER identified well in SGW-60592	Placeholder
129	TBD	200-PO-1	TBD	RCRA/CERCLA	Downgradient of the 216-A-29 Ditch, will be constructed with 10.7 m (35 ft) of screen placed from approx. 0.3 m (1 ft) above and extending to 10.4 m (34 ft) below the uppermost portion of the unconfined aquifer. EER identified well in SGW-60592	Placeholder
130	TBD	200-PO-1	TBD	RCRA/CERCLA	Downgradient of the 216-A-29 Ditch, will be constructed with 10.7 m (35 ft) of screen placed from approx. 0.3 m (1 ft) above and extending to 10.4 m (34 ft) below the uppermost portion of the unconfined aquifer. EER identified well in SGW-60592	Placeholder
131	TBD	200-PO-1	TBD	RCRA/CERCLA	Downgradient of the 216-A-29 Ditch, will be constructed with 10.7 m (35 ft) of screen placed from approx. 0.3 m (1 ft) above and extending to 10.4 m (34 ft) below the uppermost portion of the unconfined aquifer. EER identified well in SGW-60592	Placeholder

132	TBD	200-PO-1	TBD	RCRA/CERCLA	Downgradient of the 216-A-29 Ditch, will be constructed with 10.7 m (35 ft) of screen placed from approx. 0.3 m (1 ft) above and extending to 10.4 m (34 ft) below the uppermost portion of the unconfined aquifer. EER identified well in SGW-60592	Placeholder
133	TBD	200-PO-1	TBD	RCRA/CERCLA	Downgradient of B Pond, will be constructed with 10.7 m (35 ft) of screen placed from approx. 1.5 m (5 ft) above and extending to 9.1 m (30.0 ft) below the uppermost portion of the unconfined aquifer. EER identified well in SGW-60591.	Placeholder
134	TBD	200-PO-1	TBD	RCRA/CERCLA	Downgradient of B Pond, will be constructed with 10.7 m (35 ft) of screen placed from approx. 1.5 m (5 ft) above and extending to 9.1 m (30.0 ft) below the uppermost portion of unconfined aquifer. EER identified well in SGW-60591	Placeholder
135	TBD	200-PO-1	TBD	RCRA/CERCLA	Downgradient of B Pond, will be constructed with 10.7 m (35 ft) of screen placed from approx. 1.5 m (5 ft) above and extending to 9.1 m (30.0 ft) below the uppermost portion of unconfined aquifer. EER identified well in SGW-60591	Placeholder
136	TBD	200-ZP-1	TBD	RCRA/CERCLA	EER evaluation, downgradient of WMA-T, evaluation for RCRA Rev 9 final status (WMA-T_PW1, SGW-60575)	Placeholder
137	TBD	200-ZP-1	TBD	RCRA/CERCLA	EER evaluation, downgradient of WMA-T, evaluation for RCRA Rev 9 final status (WMA-T_PW2, SGW-60575)	Placeholder
138	TBD	200-ZP-1	TBD	RCRA/CERCLA	EER evaluation, downgradient of WMA-T, evaluation for RCRA Rev 9 final status (WMA-T_PW3, SGW-60575)	Placeholder
139	TBD	200-ZP-1	TBD	RCRA/CERCLA	LLWMA-4 monitoring well - south side - Downgradient well to provide RCRA compliance monitoring. For Rev 9 RCRA Permit, EER identified well in SGW-60584	Placeholder
140	TBD	200-ZP-1	TBD	RCRA/CERCLA	LLWMA-4 monitoring well - south side - Downgradient well to provide RCRA compliance monitoring. Rev 9 RCRA Permit, EER identified well in SGW-60584	Placeholder
141	TBD	200-ZP-1	TBD	RCRA/CERCLA	Upgradient of LL WMA-4, EER identified well in SGW-60584	Placeholder
142	TBD	200-ZP-1	TBD	RCRA/CERCLA	Upgradient of LL WMA-4, EER identified well in SGW-60584	Placeholder
143	TBD	200-ZP-1	TBD	RCRA/CERCLA	Downgradient of LLBG WMA-3, will be constructed with 10.7 m (35 ft) of screen placed from approx. 1.5 m (5 ft) above and extending to 6.1 m (30 ft) below the uppermost portion of the unconfined aquifer. EER proposed well #1 in SGW-60583	Placeholder
144	TBD	200-ZP-1	TBD	RCRA/CERCLA	Downgradient of LLBG WMA-3, will be constructed with 10.7 m (35 ft) of screen placed from approx. 1.5 m (5 ft) above and extending to 6.1 m (30 ft) below the uppermost portion of the unconfined aquifer. EER proposed well #2 in SGW-60583	Placeholder
145	TBD	200-ZP-1	TBD	RCRA/CERCLA	Upgradient EER well identified in SGW-60576, Rev 9 Permit	Placeholder
146	TBD	200-ZP-1	TBD	RCRA/CERCLA	Upgradient EER well identified in SGW-60576, Rev 9 Permit	Placeholder
147	TBD	200-ZP-1	TBD	RCRA/CERCLA	Downgradient of LLBG WMA-3, will be constructed with 10.7 m (35 ft) of screen placed from approx. 1.5 m (5 ft) above and extending to 6.1 m (30 ft) below the uppermost portion of the unconfined aquifer. EER proposed well #3 in SGW-60583	Placeholder

148	TBD	200-ZP-1	TBD	RCRA/CERCLA	Downgradient of LLBG WMA-3, will be constructed with 10.7 m (35 ft) of screen placed from approx. 1.5 m (5 ft) above and extending to 6.1 m (30 ft) below the uppermost portion of the unconfined aquifer. EER proposed well #4 in SGW-60583, Rev 9 Permit	Placeholder
149	TBD	200-ZP-1	TBD	RCRA/CERCLA	Downgradient of LLBG WMA-3, will be constructed with 10.7 m (35 ft) of screen placed from approx. 1.5 m (5 ft) above and extending to 6.1 m (30 ft) below the uppermost portion of the unconfined aquifer. EER proposed well #5 in SGW-60583, Rev 9 Permit	Placeholder
150	TBD	200-ZP-1	TBD	RCRA/CERCLA	Downgradient of LLBG WMA-3, will be constructed with 10.7 m (35 ft) of screen placed from approx. 1.5 m (5 ft) above and extending to 6.1 m (30 ft) below the uppermost portion of the unconfined aquifer. EER proposed well #6 in SGW-60583, Rev 9 Permit	Placeholder
151	TBD	200-PO-1	TBD	CERCLA	NRDWL Far-field downgradient wells are needed to be installed beyond the line of compliance per WA Ecology, to determine if dangerous waste constituents released earlier from the facility may be present downgradient of the current well monitoring system. In "RL30 Safe Store- Fiscal Year 2012 and beyond" it states these wells will be drilled to a depth of up to 115 feet below the water table to determine whether the low-permeability unit is present beneath the SWL portion of the WMA and also to determine whether contamination is present at depths up to 115 feet below the water table. The wells will screened where the highest levels of contaminants are detected (above MDLs).	Placeholder
152	TBD	200-PO-1	TBD	CERCLA	NRDWL Far-field downgradient wells are needed to be installed beyond the line of compliance per WA Ecology, to determine if dangerous waste constituents released earlier from the facility may be present downgradient of the current well monitoring system. In "RL30 Safe Store- Fiscal Year 2012 and beyond" it states these wells will be drilled to a depth of up to 115 feet below the water table to determine whether the low-permeability unit is present beneath the SWL portion of the WMA and also to determine whether contamination is present at depths up to 115 feet below the water table. The wells will screened where the highest levels of contaminants are detected (above MDLs).	Placeholder
153	TBD	200-PO-1	TBD	CERCLA	SWL Far-field downgradient wells are needed to be installed beyond the line of compliance per WA Ecology, to determine if dangerous waste constituents released earlier from the facility may be present downgradient of the current well monitoring system. In "RL30 Safe Store- Fiscal Year 2012 and beyond" it states these wells will be drilled to a depth of up to 115 feet below the water table to determine whether the low-permeability unit is present beneath the SWL portion of the WMA and also to determine whether contamination is present at depths up to 115 feet below the water table. The wells will screened where the highest levels of contaminants are detected (above MDLs).	Placeholder

154	TBD	200-PO-1	TBD	CERCLA	SWL Far-field downgradient wells are needed to be installed beyond the line of compliance per WA Ecology, to determine if dangerous waste constituents released earlier from the facility may be present downgradient of the current well monitoring system. In "RL30 Safe Store- Fiscal Year 2012 and beyond" it states these wells will be drilled to a depth of up to 115 feet below the water table to determine whether the low-permeability unit is present beneath the SWL portion of the WMA and also to determine whether contamination is present at depths up to 115 feet below the water table. The wells will be screened where the highest levels of contaminants are detected (above MDLs).		Placeholder
155	TBD	200-PO-1	TBD	RCRA/CERCLA	IDF monitoring well - downgradient plan at least two years prior to IDF operations. Last of downgradient wells to be installed during Phase III construction. Proposed in EER, Rev 9 Permit		Placeholder
156	TBD	200-BP-5	TBD	CERCLA	Far field wells are recommended between well 299-E27-19 and 299-E28-5 at top of aquifer (center). southeast of WMA B/BX/BY Notheast well		Placeholder
157	TBD	200-BP-5	TBD	CERCLA	Near field well wells Southeast of WMA B/BX/BY in order to differentiate the nature and extent of plumes migrating across the 200 East Area. Three wells are recommended between well 299-E33-37 and the 207-B Retention Basin at evenly spaced intervals at top of aquifer. Center Well		Placeholder
158	TBD	200-BP-5	TBD	CERCLA	Southeast of WMA B/BX/BY in order to differentiate the nature and extent of plumes migrating across the 200 East Area. Three wells are recommended between well 299-E33-37 and the 207-B Retention Basin at evenly spaced intervals. Deep Well		Placeholder
159	TBD	200-BP-5	TBD	CERCLA	Far field wells are recommended between well 299-E27-19 and 299-E28-5 at top of aquifer (southeast). RCRA assessment well for dangerous waste cyanide Center Well WMA B/BX/BY		Placeholder
160	TBD	200-BP-5	TBD	CERCLA	Upper aquifer well next to well 299-E28-31. Monitor uranium plume. Well identified in the FS but document is not approved yet Monitor uranium plume. B Plant		Placeholder
161	TBD	200-BP-5	TBD	AEA/CERCLA	216-B-9 Crib received 39 M liters of B Plant process waste. No groundwater monitoring history. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with EA-1 OU and BP-5 OU. B Plant Area.		Placeholder
162	TBD	200-BP-5	TBD	AEA/CERCLA	216-BY Crib Many of the historical monitoring wells have been decommissioned. Groundwater contamination was attributed to numerous cribs. Replacement of crib-specific wells is recommended. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. B Complex		Placeholder
163	TBD	200-PO-1	TBD	AEA/CERCLA	216-A-18 trench received 0.5 M liters of depleted uranium PUREX cold startup waste. No groundwater monitoring history. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with EA-1 OU and PO-1 OU. PUREX Area		Placeholder
164	TBD	200-PO-1	TBD	AEA/CERCLA	216-A-2 received 0.25 M liters PUREX organic waste, No groundwater monitoring history. Neighboring 216-A-4 Crib did affect groundwater. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with EA-1 OU and PO-1 OU. PUREX Area.		Placeholder

165	TBD	200-PO-1	TBD	AEA/CERCLA	216-A-21 Crib received 78 M liters of various PUREX mixed process wastes. No groundwater monitoring history. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with EA-1 OU and PO-1 OU	Placeholder
166	TBD	200-PO-1	TBD	AEA/CERCLA	216-A-3 Crib received 2.1 M liters of various PUREX mixed liquid process wastes. No groundwater monitoring history. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with EA-1 OU and PO-1 OU. PUREX Area	Placeholder
167	TBD	200-PO-1	TBD	AEA/CERCLA	216-A-5 Crib received 1.6 B liters of acidic PUREX process condensate. Historical groundwater contamination confirmed by multiple constituents, including Sr-90, tritium. No groundwater monitoring since 1995. Integrate with EA-1 OU and PO-1 OU. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. PUREX Area.	Placeholder
168	TBD	200-PO-1	TBD	AEA/CERCLA	216-A-20 Crib received 1 B liters of PUREX depleted uranium cold startup waste and subsequently condenser contact cooling water. No groundwater monitoring history. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with EA-1 OU and PO-1 OU. PUREX Area.	Placeholder
169	TBD	200-PO-1	TBD	AEA/CERCLA	219-A-19 Crib received 1.1 M liters of PUREX depleted uranium cold startup waste. No groundwater monitoring history. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with EA-1 OU and PO-1 OU. PUREX Area.	Placeholder
170	TBD	200-UP-1	TBD	AEA/CERCLA	216-S-1&2 received 160 M liters of acidic REDOX process condensate, confirmed release of fission products to groundwater, all nearby and down gradient wells are decommissioned, no current groundwater monitoring. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1 OU and UP-1 OU.	Placeholder
171	TBD	200-UP-1	TBD	AEA/CERCLA	216-S-12 received 68 K liters of REDOX stack flush waste. No groundwater monitoring in the vicinity. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with UP-1 OU.	Placeholder
172	TBD	200-UP-1	TBD	AEA/CERCLA	216-S-6 Crib received 4.5 B liters of contaminated steam condensate and process cooling water from REDOX during upset conditions. No groundwater monitoring since 1969. All near field and down gradient wells decommissioned. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1 and UP-1 OUs.	Placeholder
173	TBD	200-UP-1	TBD	AEA/CERCLA	216-U-12 Crib received 150 M liters of process condensate waste from 224-U (Uranium Trioxide Plant). No near-field wells remain in service. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1 OU and UP-1 OU.	Placeholder
174	TBD	200-ZP-1	TBD	AEA/CERCLA	216-T-14, T-15, T-16, T-17 Trenches received a total of 3.8 M liters of T Plant first cycle tank supernatant. No groundwater monitoring history in the vicinity. Recommend one new well between T-15 and T-16. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1, DV-1, and ZP-1 OUs.	Placeholder

175	TBD	200-ZP-1	TBD	AEA/CERCLA	216-T-14, T-15, T-16, T-17 Trenches received a total of 3.8 M liters of T Plant first cycle tank supernatant. No groundwater monitoring history in the vicinity. Recommend one new well down gradient of trenches. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1, DV-1, and ZP-1 OUs.	Placeholder
176	TBD	200-ZP-1	TBD	AEA/CERCLA	216-T-18, T-26, T-27, T-28 received a total of 62 M L of scavenged high-level waste and laboratory/decontamination wastes. Historical groundwater monitoring at T-28 confirmed groundwater contamination; no other sites monitored. No groundwater monitoring since 2000. Recommend 1 well immediately down gradient of T-28 Crib. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1, DV-1 and ZP-1 OUs.	Placeholder
177	TBD	200-ZP-1	TBD	AEA/CERCLA	216-T-18, T-26, T-27, T-28 received a total of 62 M L of scavenged high-level waste and laboratory/decontamination wastes. Historical groundwater monitoring at T-28 confirmed groundwater contamination; no other sites monitored. No groundwater monitoring since 2000. Recommend 1 well immediately down gradient of T-26 Crib. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1, and ZP-1 OUs.	Placeholder
178	TBD	200-ZP-1	TBD	AEA/CERCLA	216-T-19 received 455 M liters of various liquid wastes, including evaporator condensate, T Plant cell drainage, and second-cycle supernatant from T tank farm. Historical groundwater monitoring indicates contamination of groundwater. No near-field groundwater monitoring since 1999. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Immediately downgradient. Integrate with WA-1, and ZP-1 OUs	Placeholder
179	TBD	200-ZP-1	TBD	AEA/CERCLA	216-T-34 received 17.3 M liters of laboratory waste from the 340 facility in 300 Area. Historical groundwater monitoring confirmed groundwater contamination, No wells remain in service near this site. No groundwater monitoring since 1977. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1, and ZP-1 OUs.	Placeholder
180	TBD	200-ZP-1	TBD	AEA/CERCLA	216-T-6 Crib received 45 M liters of supernatant waste from 241-T-361 Settling Tank. No monitoring wells in the vicinity; no historical groundwater monitoring. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1 and ZP-1 OUs	Placeholder
181	TBD	200-ZP-1	TBD	AEA/CERCLA	216-T-8 received 0.5 M liters laboratory waste from 222-T. No historical groundwater monitoring. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1 and ZP-1 OUs.	Placeholder

182	TBD	200-ZP-1	TBD	AEA/CERCLA	241-Z Building contained mixed waste handling and processing tanks prior to discharge to 241-Z-361 Settling Tank. No throughput volume is documented. No historical groundwater monitoring is associated with the facility. 241-Z-361 Settling Tank contains plutonium-contaminated sludge (estimated 35 to 70 kg plutonium). Recommend one new monitoring well adjacent to 241-Z-361 Settling Tank. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1 and ZP-1 OUs.	Placeholder
183	TBD	200-ZP-1	TBD	AEA/CERCLA	216-Z-1&2 Received 39 M liters of Z Plant process waste via the 241-Z-361 Settling Tank. No historical groundwater monitoring. Z-3 Crib received 178 M liters of Z Plant process waste via the 241-Z-361 Settling Tank. No historical groundwater monitoring. Recommend one well between Z-1/2 Crib and Z-3 Crib. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1 and ZP-1 OUs.	Placeholder
184	TBD	200-ZP-1	TBD	AEA/CERCLA	216-Z-18 Crib received 3.9 M liters of mixed aqueous and organic waste from 236-Z facility. No historical groundwater monitoring history in vicinity. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1 and ZP-1 OUs.	Placeholder
185	TBD	200-ZP-1	TBD	AEA/CERCLA	216-Z-21 received an unspecified volume of waste water from various sources at Z Plant. No nearby historical groundwater monitoring. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with ZP-1 OU.	Placeholder
186	TBD	200-ZP-1	TBD	AEA/CERCLA	216-Z-4, Z-6, Z-17 received a total of 37 M liters of liquid waste from 231-Z Building. No historical groundwater monitoring in the vicinity. Recommend one new well west of the head end of Z-17 ditch between Z-4 and Z-6 Crib. All AEA wells focus on monitoring possible continuing sources of groundwater contamination. Integrate with WA-1 and ZP-1 OU.	Placeholder
187	TBD	100-NR-2	TBD	CERCLA	Implements biosparging for TPH	Placeholder
188	TBD	100-NR-2	TBD	CERCLA	Implements biosparging for TPH	Placeholder
189	TBD	100-NR-2	TBD	CERCLA	Implements biosparging for TPH	Placeholder
190	TBD	100-NR-2	TBD	CERCLA	Implements biosparging for TPH	Placeholder
191	TBD	100-NR-2	TBD	CERCLA	Implements biosparging for TPH	Placeholder
192	TBD	200-PO-1	TBD	CERCLA	200-PO-1 Post-ROD monitoring well	Placeholder
193	TBD	200-PO-1	TBD	CERCLA	200-PO-1 Post-ROD monitoring well	Placeholder
194	TBD	200-PO-1	TBD	CERCLA	200-PO-1 Post-ROD monitoring well	Placeholder
195	TBD	200-PO-1	TBD	CERCLA	200-PO-1 Post-ROD monitoring well	Placeholder
196	TBD	200-PO-1	TBD	CERCLA	200-PO-1 Post-ROD monitoring well	Placeholder
197	TBD	200-PO-1	TBD	CERCLA	200-PO-1 Post-ROD monitoring well	Placeholder
198	TBD	200-PO-1	TBD	CERCLA	200-PO-1 Post-ROD monitoring well	Placeholder
199	TBD	200-PO-1	TBD	CERCLA	200-PO-1 Post-ROD monitoring well	Placeholder
200	TBD	200-PO-1	TBD	CERCLA	200-PO-1 Post-ROD monitoring well	Placeholder
201	TBD	200-PO-1	TBD	CERCLA	200-PO-1 Post-ROD monitoring well	Placeholder
202	TBD	200-PO-1	TBD	CERCLA	200-PO-1 Post-ROD monitoring well	Placeholder
203	TBD	200-PO-1	TBD	RCRA/CERCLA	216-B-14 WA-1 Multi-Purpose	Placeholder
204	TBD	200-PO-1	TBD	RCRA/CERCLA	216-B-14 WA-1 Multi-Purpose	Placeholder
205	TBD	200-PO-1	TBD	RCRA/CERCLA	Upgradient of B Pond, will be constructed with 10.7 m (35 ft) of screen placed from approx. 1.5 m (5 ft) above and extending to 9.1 m (30.0 ft) below the uppermost portion of unconfined aquifer. EER identified well in SGW-60591 216-B-3	Placeholder
206	C9759	200-UP-1	TBD	RCRA/CERCLA	216-U-6 WA-1 Multi-Purpose	Placeholder
207	TBD	200-UP-1	TBD	RCRA/CERCLA	216-S-25 WA-1 Multi-Purpose	Placeholder

208	TBD	200-UP-1	TBD	RCRA/CERCLA	216-S-1&2 WA-1 Multi-Purpose	Placeholder
209	TBD	100-NR-2	TBD	RCRA/CERCLA	Replacement of A4669 199-N-2 downgradient well for 1301-N Non-WAC compliant due to the original construction materials and seals used. It is part of the RCRA monitoring program and is producing usable data.	Placeholder
210	TBD	100-NR-2	TBD	RCRA/CERCLA	Replacement of A4677 199-N-28 upgradient well for 1325-N Non-WAC compliant due to the original construction materials and seals used. It is part of the RCRA monitoring program and is producing usable data. Will be removed from list once removed from Permit.	Placeholder
211	TBD	100-NR-2	TBD	RCRA/CERCLA	Replacement of A4679 199-N-3 downgradient well for 1301-N Non-WAC compliant due to the original construction materials and seals used. It is part of the RCRA monitoring program and is producing usable data. Will be removed from list once removed from Permit.	Placeholder
212	TBD	100-NR-2	TBD	RCRA/CERCLA	Replacement of A4681 199-N-32 downgradient well for 1325-N Non-WAC compliant due to the original construction materials and seals used. It is part of the RCRA monitoring program and is producing usable data. Will be removed from list once removed from Permit.	Placeholder
213	TBD	100-NR-2	TBD	RCRA/CERCLA	Replacement of A4683 199-N-34 downgradient well for 1325-N Non-WAC compliant due to the original construction materials and seals used. It is part of the RCRA monitoring program and is producing usable data. Will be removed from list once removed from Permit.	Placeholder
214	TBD	100-NR-2	TBD	RCRA/CERCLA	Replacement of A4689 199-N-41 downgradient well for 1325-N Non-WAC compliant due to the original construction materials and seals used. It is part of the RCRA monitoring program and is producing usable data. Will be removed from list once removed from Permit.	Placeholder
215	TBD	100-NR-2	TBD	RCRA/CERCLA	Replacement of A4700 199-N-57 upgradient well for 1301-N Non-WAC compliant due to 6-ft of filter pack above the screen. It is going slowly dry. It is part of the RCRA monitoring program and is producing usable data.	Placeholder
216	TBD	200-BP-5	TBD	CERCLA	Replacement of A4842 299-E33-15 Non-WAC compliant due to the lack of a continuous annular seal around the casing WMA-B-BX-BY CERCLA well, RCRA WAC requirements do not apply.	Placeholder
217	TBD	200-BP-5	TBD	CERCLA	Replacement of A4843 299-E33-17 Non-WAC compliant due to the lack of a continuous annular seal around the casing WMA-B-BX-BY CERCLA well, RCRA WAC requirements do not apply.	Placeholder
218	TBD	200-BP-5	TBD	CERCLA	Replacement of A4847 (299-E33-20) Non-WAC compliant due to the lack of a continuous annular seal around the casing. May go dry in the near future (may not need to be replaced, has water but high zinc due to galvanized pipe	Placeholder
219	TBD	200-BP-5	TBD	CERCLA	Replacement of A4848 299-E33-21 Non-WAC compliant due to the lack of a continuous annular seal around the casing WMA-B-BX-BY CERCLA well, RCRA WAC requirements do not apply.	Placeholder
220	TBD	200-BP-5	TBD	CERCLA	Replacement of A4873 299-E33-9 SALDS Non-WAC compliant due to the lack of a continuous annular seal around the casing Inside the tank farm and is a CERCLA well, RCRA WAC requirements do not apply.	Placeholder
221	TBD	200-BP-5	TBD	CERCLA	Replacement of A5195 699-45-42 216-B-3 Non-WAC compliant due to the lack of a continuous annular seal around the casing. As of July 2015, it is proposed for use in RCRA network. It is currently being used in the CERCLA network and is providing acceptable data. BP-5 Groundwater SAP (DOE/RL-2014-33) and is used to define the extent of iodine-129 in the B Pond area	Placeholder

222	TBD	200-BP-5	TBD	CERCLA	Replacement of A6788 299-E28-8 SALDS Non-WAC compliant due to the lack of a continuous annular seal around the casing. WMA-B-BX-BY CERCLA well, RCRA WAC requirements do not apply.	Placeholder
223	TBD	200-BP-5	TBD	CERCLA	Replacement of A6855 299-E33-16 Non-WAC compliant due to the lack of a continuous annular seal around the casing. WMA-B-BX-BY CERCLA well, RCRA WAC requirements do not apply.	Placeholder
224	C9965	200-PO-1	TBD	RCRA/CERCLA	Replacement of A4728 299-E17-1 Non-WAC compliant, starting to show some possible signs of casing corrosion - evidence is unfiltered metals values are higher than filtered metals. It is currently being used in the CERCLA network as upgradient well for 216-A-36B and is providing acceptable data. Could be needed in FY2020. 299-E17-1 is an EER identified well in SGW-60595.	Placeholder
225	TBD	200-PO-1	TBD	RCRA/CERCLA	Replacement well for A4765 299-E25-19 Non-WAC compliant due to the lack of a continuous annular seal around the casing. Currently used in RCRA network and providing acceptable data. EER well identified in SGW-60593	Placeholder
226	TBD	200-PO-1	TBD	RCRA/CERCLA	Replacement well for A4767 (299-E25-20) Non-WAC compliant due to the lack of a continuous annular seal around the casing. Currently used in RCRA network and providing acceptable data. EER well identified in SGW-60593 (also identified as a downgradient monitoring well for 216-A-29 in SGW-60592)	Placeholder
227	TBD	200-PO-1	TBD	WAC/CERCLA	Replacement well for A5089 (699-24-33) Non-WAC compliant due to the lack of a continuous annular seal around the casing. In the monitoring program but sample data is used for information (deep well), not for statistical comparison. Future well use and need for replacement needs further evaluation. SWL	Placeholder
228	TBD	200-PO-1	TBD	CERCLA	Replacement of A5123 699-31-31 due to Non-WAC compliant 200-PO-1 Far-field	Placeholder
229	TBD	200-PO-1	TBD	RCRA/CERCLA	Replacement well for A6031 (299-E25-17) Non-WAC compliant due to the lack of a continuous annular seal around the casing. Currently used in RCRA network and providing acceptable data. EER well identified in SGW-60593	Placeholder
230	TBD	200-ZP-1	TBD	RCRA/CERCLA	Replacement of A4902 299-W11-12 WMA-T Non-WAC compliant due to the lack of a continuous annular seal around the casing. Recommend decommissioning since it has been removed from the network (sample dry) and it is not needed.	Placeholder
231	TBD	200-ZP-1	TBD	CERCLA	Replacement well for A5214 (699-48-71) This well is important for tracking contamination to the northeast under CERCLA.	Placeholder
232	TBD	200-ZP-1	TBD	CERCLA	Replacement well for A5221 (699-49-79) Non-WAC compliant due to the lack of a continuous annular seal around the casing. Surveillance well. Leave in the network.	Placeholder
233	TBD	200-ZP-1	TBD	CERCLA	Replacement well for A5232 (699-51-75) This well is important for tracking contamination to the northwest under CERCLA.	Placeholder
234	TBD	200-ZP-1	TBD	RCRA/CERCLA	Replacement of A7136 299-W10-1 WMA-T Non-WAC compliant due to the lack of a continuous annular seal around the casing	Placeholder

235	TBD	200-ZP-1	TBD	CERCLA	Replacement well for A9730 (699-51-75P) Non-WAC compliant due to the lack of a continuous annular seal around the casing. Recommend replacement if the state program requires it. This piezometer (hosted in Well 699-51-75) is not used for RCRA monitoring, so the WAC compliance requirements may not apply. Mary Hartman samples this well. May need to replace.	Placeholder
236	C8917	200-BP-5	699-46-92	CERCLA	Modutank #2 downgradient Modutank monitoring well. Based on DOE/RL-2009-39, if the modular storage unit will be used or if there is evidence of leakage from the modular storage units to the environment, RL will implement groundwater monitoring. WAC 173-303-645 states the department will specify in the facility permit the points of compliance. Based on 40 CFR 265.91 it is assumed one upgradient and three downgradient wells will be required if modutanks continue to operate beyond 8/5/2014.	Placeholder
237	C8918	200-BP-5	699-46-93	CERCLA	Modutank #3 downgradient Modutank monitoring well. Based on DOE/RL-2009-39, if the modular storage unit will be used or if there is evidence of leakage from the modular storage units to the environment, RL will implement groundwater monitoring. WAC 173-303-645 states the department will specify in the facility permit the points of compliance. Based on 40 CFR 265.91 it is assumed one upgradient and three downgradient wells will be required if modutanks continue to operate beyond 8/5/2014.	Placeholder
238	C8919	200-BP-5	699-46-94	CERCLA	Modutank #4 downgradient Modutank monitoring well. Based on DOE/RL-2009-39, if the modular storage unit will be used or if there is evidence of leakage from the modular storage units to the environment, RL will implement groundwater monitoring. WAC 173-303-645 states the department will specify in the facility permit the points of compliance. Based on 40 CFR 265.91 it is assumed one upgradient and three downgradient wells will be required if modutanks continue to operate beyond 8/5/2014.	Placeholder