

Meeting Minutes Transmittal/Approval  
Project Managers' Meeting  
200 Area Groundwater and Source Operable Units  
November 20, 2014

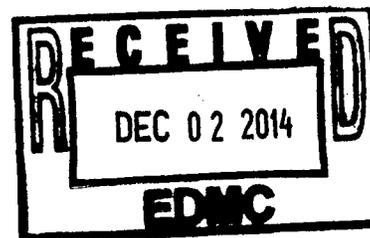
APPROVAL: *Brian Charboneau* DATE: 11/20/14  
Briant Charboneau, 200 Area Unit Manager, DOE/RL

APPROVAL: *Al Farabee* DATE: 11/20/14  
Al Farabee, 200 Area Project Manager, DOE/RL

APPROVAL: *Emerald Laija* DATE: 11-20-14  
Emerald Laija, 200 Area Project Manager, EPA  
*Red Lines for*

APPROVAL: *Nina Menard* DATE: 11/20/14  
Nina Menard, 200 Area Project Manager, Ecology

HFFACO Action Plan Section 4.1 requires signature of agreements and commitments made during the Project Manager Meeting. Approval of these minutes documents approval of agreements and commitments documented in Attachment 4 to these minutes. Approval does not apply to any other attachments, which are included in these minutes for informational purposes.



**DISTRIBUTION  
PROJECT MANAGERS' MEETING,  
200 AREA GROUNDWATER and SOURCE OPERABLE UNITS  
November 20, 2014**

DOE/RL

(No hard copy distribution)

EPA

Emerald Laija

B1-46

Ecology

Nina Menard

H0-57

CHPRC

Jane V. Borghese (original)

H8-43

Administrative Record (2)

H6-08

Correspondence Control

G3-39

**Minutes of the 200 Area Project Managers' Meeting of November 20, 2014 are attached.  
Minutes are comprised of the following:**

<b>Attachment 1</b>	<b>Attendance Record</b>
<b>Attachment 2</b>	<b>Agreements and Issues List</b>
<b>Attachment 3</b>	<b>Action Item List</b>
<b>Attachment 4</b>	<b>Operable Units and Facilities Status</b>
<b>Attachment 5</b>	<b>2014 Annual Sitewide Institutional Control Assessment CH2M Hill Plateau Remediation Company</b>
<b>Attachment 6</b>	<b>TPA-CN-638</b>
<b>Attachment 7</b>	<b>TPA-CN-639</b>
<b>Attachment 8</b>	<b>TPA-CN-640</b>
<b>Attachment 9</b>	<b>TPA-CN-641</b>

200 Area Project Managers' Status Meeting  
November 20, 2014

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Jane Bonghesz	CHPRC		373-3804
KIM WELSH	ECOLOGY	REGULATOR	372-7882
Shawley CIMON	ODOB	-	(511) 210-0111
John Sands	DOE	200-211	372-2282
Martin Durkos	CHPRC		438-5516
Rod Cobos	EPA		376-3749
Nancy Jaschke	DOE	UP-1	376-5507
Meghann Stewart	CHPRC		372-5818
Brian Dixon	CHPRC		
But D	CHPRC	IS-1	539-0232
JOE AXTELL	DOE		373-6687
AK Farabee	DOE		376-8081
Ben Vanna	DOE		
Michael Cline	DOE		376-6070
Dib Goswami	Ecology	PM.	372-7902

**200 Area Project Managers' Meeting  
Agreements and Issues List  
November 20, 2014**

**Agreement:** None

**Issue:** None

**Announcements:** None

**Delegations for November 20, 2014 PMM meeting:**

DOE/RL	Mike Cline for Briant Charboneau
Ecology	Kim Welsch for Nina Menard
EPA	Rod Lobos for Emerald Lajja

200 Area Project Managers' Meeting  
November 20, 2014

CHPRC-1404069  
Attachment 3

OPEN ACTION ITEM TRACKING

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status
146	TPA Change Notice to add pipelines to IS-1	RL/Doug Hildebrand	Ecology/Kim Welsch	5/16/13	7/15/13	10/31/2014	Closed.
151	The finalized Inner Area Principles	DOE/B. Charboneau	EPA, Ecology	3/20/14	Open		Closed: the principles will be incorporated into the Work Plans
159	Add status and number of wells drilled for M-24 milestone into January 2015 PMM package	DOE/J. Sands	Ecology	11/20/14	1/15/15		Open
160	RL to talk to EPA/Craig Cameron regarding U Plant Closure/M-016-200A	DOE/A. Farabee	EPA	11/20/14	1/15/15		Open

**200 AREA PROJECT MANAGERS' MEETING**  
Milestones and Operational Status by OU  
November 20, 2014

**Deep Vadose Zone 200-DV-1 Ecology Lead (RL – John Morse, CHPRC – Mark Byrnes)**

- **M-015-110A: Submit RFI/CMS & RI/FS work plan for the 200-DV-1 OU to Ecology. The work plan shall include technology screening that identifies technologies applicable for characterization, treatment, and monitoring of Deep Vadose Zone contaminants, 3/31/2015**
  - Forwarded the revised Decisional Draft WP to DOE-HQ for their review on October 22, 2014.

**Milestone Status:** On Schedule.

- **Perched Water EE/CA / Action Memorandum**

- Incorporated RL, Ecology, and EPA comments on the Action Memorandum into the document. The revised document was ready for signatures on October 30, 2014.
- The B Area perched water extraction system removed 6,742 gallons in October, bringing the total volume of perched water removed to 239,833 gallons since initiating operations on August 30, 2011. The following quantities of contaminants were removed:

200-DV-1 Perched Water	Current Month	Cumulative
Gallons	6,742	239,833
Tc-99	13.6E-04 Ci	30.24E-03 Ci
Uranium	2.5 kilograms	51.7 kilograms
Nitrates	15.6 kilograms	482.7 kilograms

- **M-015-110B: Submit CMS & FS and PP/PCAD for the 200-DV-1 OU to Ecology, 9/30/2015**
  - This work cannot be performed in the time available from issuance of the work plan (March 31, 2015) and the milestone due date of September 30, 2015. This milestone was not adjusted when the M-015-110A milestone was renegotiated.

**Milestone Status:** To be missed.

**Regulatory Agency Comments:** N/A

**200-EA-1 and 200-IS-1 Ecology Lead (RL- Doug Hildebrand, CHPRC – Bert Day)**

**200-IS-1**

- **M-015-112: Submit Draft B, 200-IS-1 OU Pipeline System Waste Sites RFI/CMS/RI/FS WP to Ecology, including a schedule of completion dates for major tasks and deliverables, 2/28/2014.**
  - On December 10, 2013, TPA dispute resolution was invoked and an extension to resolve issues at the project manager level was requested. Ecology has agreed to extend the dispute at the project manager's level to January 30, 2015.
  - Completed seven conceptual site model (CSM) workshops with Ecology -- July 29, September 9, September 25, September 29, October 7, November 4, and November 18, 2014.
  - Received signed Change Package C-14-01 July 30, 2014, adjusting waste sites between 200-IS-1 and 200-WA-1 Operable Units.
  - Transmitted to Ecology Change Packages C-13-01 and C-14-02. Ecology attorneys and State Attorney General are working to resolve.

**Milestone Status:** Dispute resolution. The parties are currently working on identifying the work plan scope (e.g., change package C-13-01) and associated revised delivery schedule.

**200-EA-1**

- **M-015-92A, Submit a RFI/CMS & RI/FS work plan for the 200-EA-1 OU (200 East Inner Area) to Ecology, 6/30/2015**
  - *Not funded in FY14 - Work has been deferred based on site priorities.*

**Milestone Status:** To be missed.

**200-EA-1 and 200-IS-1 Ecology Lead (RL- Doug Hildebrand, CHPRC – Bert Day)**

- **M-015-92B: Submit CMS & FS Report(s) & Proposed CA Decision(s)/PP(s) for the 200-EA-1 and 200- IS-1 OUs (Central Plateau 200 East Inner Area) to Ecology, 12/31/2016**
  - *200-IS-1: Milestone date will need to be adjusted based on outcome of dispute resolution for M-015-112 and associated 200-IS-1 Work Plan approval date.*
  - *200-EA-1: Milestone date will need to be re-evaluated based on 200-EA-1 OU Work Plan approval date (see M-015-92A discussion).*
  - *Transmitted to Ecology for review Change Package C-14-03, adjusting waste sites between 200-IS-1 and 200-EA-1 Operable Units.*

**Milestone Status:** To be missed.

**Regulatory Agency Comments:** N/A

**200-SW-2 Ecology Lead (RL- Doug Hildebrand, CHPRC – Phil Burke)**

- **M-015-113: Submit Draft B, 200-SW-2 Radioactive Landfills Group RFI/CMS/RI/FS Work Plan to Ecology, including a schedule of completion dates for major tasks and deliverables, 3/31/2015**
  - *Completed a series of workshops with Ecology to resolve comments, jointly develop a DQO, and to discuss characterization needs for each of the landfills.*
  - *Incorporated the Central Plateau Principles into the draft work plan.*
  - *The revised work plan is planned to be delivered to RL for review in mid-December. The document is on schedule to be delivered to Ecology in mid-March.*
  - *Reviewing a white paper on regulatory options under RCRA.*

**Schedule Status:** On schedule. The Draft B is planned for delivery to the regulatory agencies mid-March, 2015.

- **M-015-93B: Submit RFI/CMS & RI/FS Report & Proposed CA Decision/PP for 200-SW-2, 12/31/2016**
  - *Milestone date will need to be adjusted based on the approval of the work plan (200-SW-2 work plan).*

**Milestone Status:** At risk

**Regulatory Agency Comments:** N/A

**200-SW-1 Ecology Lead (RL- Doug Hildebrand)**

- **EA released for public review August 29, 2011. The last of the public comments were received on November 17, 2011.**
  - *Deferred the EA while the Tank Closure and Waste Management EIS was in progress.*

**Schedule Status:** Due to budgetary constraints, no further action is scheduled for FY15 and FY16.

**Regulatory Agency Comments:** N/A

**200-BC-1 and 200-WA-1 EPA Lead (RL- John Sands, CHPRC – Phil Burke)**

**200-WA-1**

- **M-015-91A: Submit a RI/FS work plan for the 200-WA-1 OU (200 West Inner Area) to EPA, 12/31/2011**
  - *Incorporated the Central Plateau Principles into the revised work plan.*
  - *The revised work plan is scheduled to be delivered to RL for review in mid-December.*

**Schedule Status:** Milestone complete. Draft Rev. 0 RI/FS work plan is currently planned for submittal to the regulatory agencies by the first week of April 2015.

**200-BC-1 and 200-WA-1**

- **M-015-91B: Submit Feasibility Study Report(s) and Proposed Plan(s) for the 200-BC-1/200-WA-1 operable units (200 West Inner Area) to EPA, 12/31/2015**
  - *Awaiting finalization of the work plan. This milestone date will need to be revised based on issuance of the Rev 0 work plan.*

**Milestone Status:** To be missed.

**Regulatory Agency Comments:** N/A

**200-CW-1, 200-CW-3, 200-OA-1 EPA Lead (RL –Greg Sinton, CHPRC – Phil Burke)**

- **M-015-38B: Submit a revised FS Report and revised PP(s) for 200-CW-1, 200-CW-3, and 200-OA-1 OUs for Waste Sites in the Outer Area of the Central Plateau to EPA, 10/30/2015**
  - *Received EPA approval on July 21, 2014, to revise the Outer Area RI/FS and PP milestone M-015-38B due October 30, 2014. The Change Control Form extends the milestone to October 30, 2015, to submit a schedule for this document considering the Central Plateau strategic planning and future funding.*

**Milestone Status:** On schedule

**Regulatory Agency Comments:** N/A

**200-BP-5 and 200-PO-1 Ecology Lead (RL – John Morse, CHPRC – Curt Wittreich)**

- **M-015-82B: Initiate 200-BP-5 Aquifer Tests Within 6 months of TTP Approval, approval of TTP + 6 months**
  - *The treatability test has been delayed to August 2015, to accommodate the installation of the uranium treatment system at the 200 West Pump and Treatment Facility, and a pipeline from 200-BP-5 to 200 West P&T.*
  - *Initiated the design of the pipeline.*
  - *The Treatability Test Plan is in the process of being revised.*

**Schedule Status:** Milestone complete, testing expected to start in July 2015.

- **M-015-21A: Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology, 6/30/2015**
  - *Began the preparation of the 200-BP-5 baseline risk assessment and 200-PO-1 supplemental analysis (the 200-PO-1 RI Report was issued October 2012). Held meetings with Ecology on September 24, October 22, and October 30, 2014 to discuss the approach to fate and transport modeling, risk assessment, and evaluating the major on-going sources to groundwater contamination.*
  - *The 200-BP-5 Draft A RI report and 200-PO-1 Draft A supplemental analysis is scheduled to be complete by June 30, 2015.*
  - *The combined BP-5/PO-1 FS Report and Proposed Plan was not funded in FY2014 and as a result, the M-015-21A milestone will be missed.*

**Milestone Status:** Milestone to be missed. However, the BP-5 RI and PO-1 RI Supplement are planned to be delivered by June 30, 2015.

**Regulatory Agency Comments:** Ecology extended the review on the draft PO-1 SAP to 12/31/14 submittal to DOE.

**M-015 Milestone Series, Major Milestone** *Dual Agency Lead*

- **M-015-00: Complete the RI/FS Process for all Non-Tank Farm OUs, 12/31/2016**
  - *This milestone may be impacted by the interim OU milestones stated above.*

**Milestone Status:** At risk

**Regulatory Agency Comments:** N/A

**200-PW-1/3/6 and CW-5 ROD Implementation** *EPA Lead (RL- Greg Sinton, CHPRC –Patrick Baynes)*

- **M-016-125: Submit a Remedial Design/Remedial Action Work Plan for 200-CW-5 and 200-PW-1/3/6 to EPA as described in Section 12.4 of the associated ROD, 9/30/2015**
  - *A kickoff meeting for development of the RD/RA work plan was held on October 7, 2014.*

**Milestone Status:** On schedule.

**Regulatory Agency Comments:** N/A

**200-PW-1 Soil Vapor Extraction Operations** *EPA Lead (RL – John Morse, CHPRC – Mark Byrnes)*

- *Rebound sampling was performed in May and June 2014, that shows over the past year the majority of the wells across the operable unit remained below the cleanup levels established for carbon tetrachloride and methylene chloride in the PW-1 OU Record of Decision. EPA has approved suspending operation of the SVE system for another year to conduct another round of rebound sampling in 2015.*
- *A path forward document (DOE/RL-2014-18) has been signed by EPA that identifies the specific steps outlined in PNNL-21843 for how a soil vapor extraction project comes to closure. Currently preparing a follow-on document that identifies specifically where the 200-PW-1 SVE operations are in this process and what final steps need to be taken to permanently discontinue all future 200-PW-1 SVE operations. This document will be going out for EPA review in December 2014.*

**Regulatory Agency Comments:** N/A

**200-UP-1 Remedy Implementation** EPA Lead (RL – Naomi Jaschke, CHPRC – Curt Wittreich)

- **M-016-190: Complete the installation of extraction and injection wells for the U Plant area pump & treat system for uranium and technetium-99, and the iodine-129 hydraulic containment system as defined in the 200-UP-1 RD/RAWP, 9/30/2015**
  - *Completed drilling one of the two uranium/Tc-99 plume extraction wells. The second extraction well is expected to be completed by December 30, 2014.*
  - *Identified the location of the three I-129 injection wells based upon model results. The installation of these wells is on schedule to be completed by September 30, 2015.*

**Milestone Status:** On schedule.

- **M-016-191: Complete acceptance test procedures and operational test procedures and initiate startup operations for the U Plant area P&T for uranium and tech-99, and Iodine-129 hydraulic containment system, 3/30/2016**
  - *Continued the design of the uranium extraction and treatment system. The design package for the balance of plant (outside the treatment bldg.) was completed. The 90% design package for the rad building was completed and is under review. Continued fabrication of the IX treatment train with delivery expected in December.*
  - *Issued the Rev 3, 200 West P&T O&M Plan, incorporating the 200-UP-1 uranium system.*
  - *Initiated the design of the hydraulic containment system for I-129 plume.*

**Milestone Status:** On schedule.

- **M-016-192: Submit I-129 Technology Evaluation Plan Draft A to EPA as defined in the UP-1 RD/RA WP, 6/17/2016**
  - *Laboratory, field data evaluation and technology reviews are currently being performed to develop the Technology Evaluation Plan Draft A.*

**Milestone Status:** On schedule.

- **M-016-193: Complete the remedial design investigation of the SE chromium plume, including the installation of new wells and evaluation of the GW monitoring data and install monitoring wells needed for remedy performance monitoring as defined in the UP-1 RD/RA WP, 9/30/2017**
  - *Planning three remedial design investigation wells for FY2015.*

**Milestone Status:** On schedule.

**Regulatory Agency Comments:** N/A

**200-ZP-1 EPA Lead (RL – John Morse, CHPRC – Mark Byrnes)**

- During the months of September and October 2014, the pumping rates at the 200 West P&T ranged from ~715 gpm to 1,839 gpm. The two ion exchange resin trains were run between 288 gpm and 581 gpm combined capacity, removing technetium-99 from groundwater from wells near the TX-TY Tank Farm, T Tank Farm, as well as S-SX Tank Farm.
- 403 kg of carbon tetrachloride and 8,760 kg of nitrate as N (or 38,794 kg nitrate as NO<sub>3</sub>) were recovered during September and October 2014.
- The average concentration of contaminants of concern in the effluent water remains below the cleanup levels specified in the Record of Decision.
- Drilled four new injection wells to depth. Completed construction and tie in to the facility of four new injection wells.

**Regulatory Agency Comments:** N/A

**200 Area Groundwater**

- **M-016-119-T01: DOE will have a remedy in place to contain existing groundwater plumes (except iodine, nitrate, and tritium) in the 200 NPL Area, 12/31/2020**

**Milestone Status:** On schedule.

**Regulatory Agency Comments:** N/A

**M-016 Milestone Series, Major Milestone** *Dual Agency Lead*

- **M-016-00: Complete Remedial Actions for all Non-Tank Farms & Non-Canyon OUs, 9/30/2024**
  - *This milestone may be impacted by the interim OU milestones stated above.*

**Milestone Status:** At risk

**Regulatory Agency Comments:** N/A

**M-024 Milestone Series/Well Drilling** *Ecology Lead (RL-Mike Thompson, CHPRC-Mark Cherry)*

- **M-024-58H: Initiate Discussions of Well Commitments, 6/01/2015 – On schedule**
- **M-024-66-T01: Conclude Discussions of Well Commitments, 8/01/2015 – On schedule**
- **M-024-66: DOE Shall Complete Construction of all Wells Identified in M-24-12-01, 12/31/2015 – On schedule**
- **M-024-00O: Complete Well Installations with RCRA/CERCLA Requirements, TBD - In program planning**

**Regulatory Agency Comments:** N/A

**200 Area RCRA TSD Closures** Ecology Lead (RL – John Sands/Joe Axtell, CHPRC – Phil Burke)

- **M-037-03: Submit Revised Closure Plans to support TSD closure for two (2) TSD Units: 216-B-3 Main Pond system, and 216-S-10 Pond and Ditch, 4/30/13**
  - The two closure plans were submitted to Ecology on April 23, 2013.
  - Ecology issued a letter on July 12, 2013 (Notice of Deficiencies for the 216-B-3 Main Pond Closure- DOE/RL-2013-24, Draft A and the 216-S-10 Pond and Ditch Closure Plan- DOE/RL-2006-12, Draft B), requesting DOE to revise and resubmit the closure plans correcting the deficiencies as part of Rev. 9 or as a permit modification.
  - DOE-RL NOD responses extended to December 9, 2013 to enable coordination with Ecology guidance documents in support of the Hanford RCRA permit.
  - Transmitted NOD responses on December 3, 2013.
  - Ecology provided a response to the NOD response on March 19, 2014.
  - Issues were elevated to Hanford Permit working group to help with resolution.

**Schedule Status:** Milestone complete; closure plans undergoing NOD process.

- **M-037-02: Submit Revised Closure Plans to support TSD closure for five (5) TSD Units: 207-A South Retention Basin, 216-A-29 Ditch, 216-A-36B Crib, 216-A-37-1 Crib, and 216-B-63 Trench, 06/30/2014**
  - Submitted the five RCRA TSD Closure Plans on June 24, 2014, to fulfill the Tri-Party Agreement Interim Milestone M-037-02 which requires submittal to Ecology by June 30, 2014.

**Milestone Status:** Complete.

- **M-037-11: Complete unit-specific closure requirements for two (2) TSD Units; 216-B-3 Main and Pond system and 216-S-10 Pond and Ditch, 9/30/2016**
  - The outstanding Notice of Deficiency comments on the closure plans have not been resolved which prevents finalization of the plans.

**Milestone Status:** At Risk.

- **M-037-10: Complete Unit-Specific Closure Requirements According To The Closure Plan(s) for seven (7) TSD Units: 207-A South Retention Basin, 216-A-29 Ditch, 216-A36B Crib, 216-A-37-1 Crib, 216-B-63 Trench, Hexone Storage and Treatment Facility (276-S-141/142), and 241-CX Tank System (241-CX-70/71/72), 9/30/2020**

**Milestone Status:** On schedule

**Regulatory Agency Comments:** N/A

**Canyon Facilities**

***U Plant Canyon EPA Lead*** (RL – Wade Woolery, CHPRC – TBD)

- **M-016-200A: Complete U Plant Canyon (221-U) demolition in accordance with the RD/RAWP, 9/30/2017**  
***Milestone Status:*** At Risk
- **M-016-200B: Complete U Plant Canyon (221-U) barrier construction in accordance with the RD/RAWP, 9/30/2021**
  - *These milestones may be impacted by the 200-WA-1 and 200-OA-1 OU interim milestones stated above.*

***Milestone Status:*** At risk

**Regulatory Agency Comments:** N/A

***Canyon Facilities EPA/Ecology Lead*** (RL – Ray Corey, CHPRC – Moses Jaraysi)

- **M-085-02: Submit Change Package to Establish Schedule for Submittal of RI/FS Work Plans for Canyons and RAWPs for 224B & 224T, 9/30/2015**
- **M-085-01: Submit a Change Package to Establish a Date for Major Milestone M-085-00, 9/30/2022**
- **M-085-00: Complete response actions for the canyon facilities/associated past practice waste sites, other Tier 1 Central Plateau facilities not covered by existing milestones, and Tier 2 Central Plateau facilities. This includes B Plant, PUREX, and REDOX canyons and associated past practice waste sites in 200-CB-1, 200-CP-1, and 200-CR-1 OUs. The milestone does not include U Plant or T Plant canyons, TBD**

***Milestone Status:*** On schedule

**Regulatory Agency Comments:** N/A

**2014 ANNUAL SITEWIDE INSTITUTIONAL CONTROL ASSESSMENT  
CH2M HILL PLATEAU REMEDIATION COMPANY**

Institutional control requirements for the Central Plateau operable units and other facilities are provided in Tables 2, 3, 4 and 5.

Table 2. Institutional Controls Requirements Listed in Record of Decision for Interim Remedial Action for Hanford 200 Area, 200-UP-1 Operable Unit (Required through time of completion of the remedy.) (2 sheets)

Institutional Controls Requirement	2014 Status
DOE shall control access to 200-UP-1 OU groundwater to prevent unacceptable exposure of humans to contaminants, except as otherwise authorized in lead regulatory agency approved documents.	No findings, access controls still in place.
Visitors entering any site areas of the 200-UP-1 OU will be required to be badged and escorted at all times.	No findings, work plans are being/have been submitted for approval.
No intrusive work shall be allowed in the 200-UP-1 OU unless the lead regulatory agency has approved the plan for such work and that plan is followed.	No findings, no unauthorized wells have been drilled.
The DOE shall prohibit well drilling in the 200-UP-1 OU, except for monitoring, characterization, or remediation wells authorized in EPA approved documents.	No findings, no unauthorized well drilling.
Groundwater use at the 221-U Facility site is prohibited, except for limited research purposes and monitoring and treatment authorized in EPA approved documents.	No findings, no unauthorized groundwater use has occurred.
The DOE shall post and maintain warning signs along pipelines conveying untreated groundwater that caution site visitors and workers of potential hazards from the 200-UP-1 OU.	No findings. <u>The warning signs are shown in Figures 8 and 9.</u>
In the event of any unauthorized access (e.g. trespassing), DOE shall report such incidents to the Benton County Sheriff's Office for investigation and evaluation of possible prosecution.	No findings, no unauthorized access or trespass.
Activities that would disrupt or lessen the performance of the any component of the remedy are to be prohibited, except as otherwise authorized in lead regulatory agency approved documents.	No findings, no activities have been implemented that would disrupt/lessen performance of the interim remedy
The DOE shall prohibit activities that would damage the remedy components (e.g. extraction wells, piping, treatment plant, and monitoring wells), except as otherwise authorized in lead regulatory agency approved documents.	No findings.
The DOE will prevent the development and use of property above the 200-UP-1 OU for residential housing, elementary and secondary schools, childcare facilities, and playgrounds.	No findings.
The DOE shall report on the effectiveness of ICs for the 200-UP-1 OU interim remedy in an annual report, or on an alternative reporting frequency specified by the lead regulatory agency. Such reporting may be for the 200-UP-	No findings, included in annual report.

Table 2. Institutional Controls Requirements Listed in Record of Decision for Interim Remedial Action for Hanford 200 Area, 200-UP-1 Operable Unit (Required through time of completion of the remedy.) (2 sheets)

Institutional Controls Requirement	2014 Status
1 OU alone or may be part of the Hanford Site wide report.	
Measures that are necessary to ensure continuation of ICs shall be taken before any lease or transfer of any land above the 200-UP-1 OU. DOE will provide notice to Ecology and EPA at least 6 months before any transfer or sale of 200-UP-1 OU or any land above the 200-UP-1 OU so that the lead regulatory agency can be involved in discussions to ensure that appropriate provisions are included in the transfer terms or conveyance documents to maintain effective ICs. If it is not possible for DOE to notify Ecology and EPA at least 6 months before any transfer or sale, DOE will notify Ecology and EPA as soon as possible, but no later than 60 days before the transfer or sale of any property subject to ICs. In addition to the land transfer notice and discussion provisions, DOE further agrees to provide Ecology and EPA with similar notice, within the same time frames, as to federal-to-federal transfer of property. DOE shall provide a copy of the executed deed or transfer assembly to Ecology and EPA.	No findings, no transfer/sale of land has taken place.
DOE shall notify EPA and Ecology immediately upon discovery of any activity inconsistent with the OU-specific institutional control objectives for the Site.	No findings, no inconsistent activity discovered.

Table 3. Institutional Controls Requirements (Required through the Time of Completion of Remedy Construction) Listed in Record of Decision for 221-U Facility (Canyon Disposition Initiative). (2 Sheets)

Institutional Controls Requirement	2014 Status
DOE shall control access to prevent unacceptable exposure of humans to contaminants at the 221-U Facility site addressed in the scope of this ROD until remedy construction is complete. Visitors entering any site areas are required to be badged and escorted at all times. See Figure 7 of the 221-U Facility ROD (US EPA 2005) for a site map showing the extent of the 221-U Facility site and the boundaries of the land-use controls. A more detailed map will be developed and included in the RD/RA work plan to be approved by EPA and Ecology.	No findings, access controls still in place.
No intrusive work shall be allowed at the 221-U Facility site unless the EPA and Ecology have approved the plan for such work and that plan is followed.	No findings, work plans are being/have been submitted for approval.
DOE shall prohibit well drilling at the 221-U Facility site except for monitoring, characterization, or remediation wells authorized in EPA-and Ecology-approved	No findings, no unauthorized wells have been drilled.

Table 3. Institutional Controls Requirements (Required through the Time of Completion of Remedy Construction) Listed in Record of Decision for 221-U Facility (Canyon Disposition Initiative). (2 Sheets)

Institutional Controls Requirement	2014 Status
documents.	
Groundwater use at the 221-U Facility site is prohibited, except for limited research purposes and monitoring and treatment authorized in EPA-and Ecology-approved documents. This prohibition applies until drinking water standards are achieved and EPA and Ecology authorize removal of restrictions. Decision documents for the 200-UW-1 Source OU and 200-UP-1 Groundwater OU as well as the Sitewide institutional controls plan will contain the institutional controls and implementing details prohibiting well drilling and groundwater use in the U Plant Area and portions of the 200 West Area as defined in those decision documents.	No findings, no unauthorized groundwater use has occurred.
DOE shall post and maintain warning signs along access roads to caution site visitors and workers of potential hazards from the 221-U Facility site.	No findings, warning signs are in place.
In the event of any unauthorized access to the site, such as trespass, DOE shall report such incidents to the Benton County Sheriff's Office for investigation and evaluation of possible prosecution.	No findings, no unauthorized access to the site has occurred.

Table 4. Institutional Controls Requirements Listed in Record of Decision Hanford 200 Area 200-ZP-1 OU Superfund Site Benton County, Washington. (2 Sheets).

Institutional Controls Requirement	2014 Status
The DOE shall control access to prevent unacceptable exposure of humans to contaminants in the 200-ZP-1 OU groundwater addressed in the scope of this ROD until the remedy is complete. Visitors entering any site areas of the 200-ZP-1 OU will be required to be badged and escorted at all times.	No findings, access controls are in place.
No intrusive work shall be allowed in the 200-ZP-1 OU unless EPA has approved the plan for such work and that plan is followed.	No findings, work plans are being/have been submitted for approval.
The DOE shall prohibit well drilling in the 200-ZP-1 OU, except for monitoring, characterization or remediation wells authorized in EPA approved documents.	No findings, no unauthorized wells have been drilled.
Groundwater use in the 200-ZP-1 OU is prohibited, except for limited research purposes, monitoring, and treatment authorized in EPA approved documents. The <i>Sitewide Institutional Controls Plan</i> will contain the institutional controls and implementing details prohibiting well drilling and groundwater use in the 200-ZP-1 OU, as defined in	No findings, no unauthorized groundwater use has occurred.

Table 4. Institutional Controls Requirements Listed in Record of Decision Hanford 200 Area 200-ZP-1 OU Superfund Site Benton County, Washington. (2 Sheets).

Institutional Controls Requirement	2014 Status
the Decision document for the 200-ZP-1 OU.	
The DOE shall post and maintain warning signs along pipelines conveying untreated groundwater that caution site visitors and workers of potential hazards from the 200-ZP-1 OU groundwater.	No findings, signs have been/will be installed along pipelines (Figures 10 and 11).
In the event of any unauthorized access to the site (e.g., trespassing), DOE shall report such incidents to the Benton County Sheriff's Office for investigation and evaluation of possible prosecution.	No findings, no unauthorized access to the site has occurred.
Activities that would disrupt or lessen the performance of the pump-and-treat, MNA (Monitored Natural Attenuation), and flow-path control components of the remedy are to be prohibited.	No findings, no activities have been implemented that would disrupt/lesson performance of remedy.
The DOE shall prohibit activities that would damage the pump-and-treat, MNA, and flow-path control components (e.g., extraction wells, injection wells, piping, treatment plant, or monitoring wells).	No findings, no activities have been implemented that would damage the remedy components.
The DOE shall report on the effectiveness of institutional controls for the 200-ZP-1 OU remedy in an annual report, or on an alternative reporting frequency specified by EPA. Such reporting may be for this OU alone or may be part of a Hanford sitewide report.	No findings.
The DOE will provide notice to EPA at least 6 months prior to any transfer or sale of the any land above the 200-ZP-1 OU so EPA can be involved in discussions to ensure that appropriate provisions are included in the transfer terms or conveyance documents to maintain effective institutional controls. If it is not possible for DOE to notify EPA at least 6 months prior to any transfer or sale, then the DOE will notify EPA as soon as possible but no later than 60 days prior to the transfer or sale of any property subject to institutional controls. In addition to the land transfer notice and discussion provisions above, the DOE further agrees to provide EPA with similar notice, within the same time frames, as to federal-to-federal transfer of property. The DOE shall provide a copy of executed deed or transfer assembly to EPA.	No findings, no transfer/sale of land has taken place.
The DOE will prevent the development and use of property above the 200-ZP-1 groundwater OU for residential housing, elementary and secondary schools, childcare facilities and playgrounds.	No findings, no property development has taken place.
Land use controls will be maintained until cleanup levels are achieved and the concentrations of hazardous substances in groundwater are at such levels to allow for unrestricted use and exposure and EPA authorizes the removal of restrictions.	No findings, land use controls are still in place.

Table 5. Institutional Controls Requirements Listed in EPA/ROD/R10-93/063 1993 Record of Decision 1100-EM-1, 1100-EM-2, 1100-EM-3, and 1100-IU-1 Operable Units, Explanation of Significant Differences, Horn Rapids Landfill.

Institutional Controls Requirement	2014 Status
Institutional controls are required to prevent human exposure to the landfill soil. DOE is responsible for establishing and maintaining land-use and access restrictions through fencing and signs.	No findings, land use access restriction still in place.
Use of the landfill property or residential housing, elementary and secondary schools, or childcare facilities is prohibited the remedial activity without the lead agency's concurrence.	No findings, no activities have occurred.
In addition, measures necessary to ensure the continuation of this restriction will be taken in the event of any transfer or lease of the property before the final remedy is selected. A copy of the notification in a land-use plan will be given to any prospective purchaser/transfer before any transfer or lease. DOE will provide Ecology and EPA notification at least 6 months prior to any transfer, sale or lease of the landfill property.	No findings.

Figure 8. Warning Sign at Beloit and 23<sup>rd</sup>.



Figure 9. Warning Sign Southwest of U Plant.



Figure 10. Warning Sign East of 200-ZP-1 Pump and Treat.



Figure 11. Warning Sign at Camden and 22<sup>nd</sup>.



**TRI-PARTY AGREEMENT**

Change Notice Number TPA-CN- 638	TPA CHANGE NOTICE FORM	Date: 10/28/14
Document Number, Title, and Revision: DOE/RL-2003-30, <i>Waste Control Plan for the 200-BP-5 Operable Unit</i> , Revision 3.		Date Document Last Issued: October 2007
Originator: Rick Oldham		Phone: 372-2426

**Description of Change:**

Four new wells are added to DOE/RL-2003-30, Revision 3, *Waste Control Plan for the 200-BP-5 Operable Unit* for installation in FY2015.

B. Charboneau and N. Menard 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*.

Table 2, "200-BP-5 Operable Unit Groundwater Well Supplemental List" of DOE/RL-2003-30, *Waste Control Plan for the 200-BP-5 Operable Unit*, Rev. 3, is modified to add four new wells:

- Well 299-E-28-31 is a new monitoring well east of 216-B-12 crib.
- Well 299-E-28-32 is a new monitoring well south of 216-B-6 injection well.
- Well 299-E27-26 is a replacement well for 299-E27-7.
- Well 299-E26-15 is a new LERF surveillance well.

The changes are on pages 15-22 of DOE/RL-2003-30, Revision 3. Additional change requested to remove from the table header "(9 sheets)". The table is eight sheets long at this time and continues to change with subsequent change notices. Recommend removal rather than continuing to track page length in the header of the table.

**Justification and Impacts of Change:**

These changes will be reflected in the next revision to DOE/RL-2003-30, *Waste Control Plan for the 200-BP-5 Operable Unit*. These wells are being added to maintain the technical integrity of the well monitoring field and are M-24 monitoring wells.

The attached well list incorporates all the changes from TPA Change Notices #s 206, 309, 406, 600 and 618 which are identified with footnotes on the table for reference.

**Approvals:**

	<u>10-28-2014</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
DOE Project Manager	Date	
N/A		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved
EPA Project Manager	Date	
	<u>10/30/2014</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
Ecology Project Manager	Date	

## DOE/RL-2003-30 Rev. 3

Table 2. 200-BP-5 Operable Unit Groundwater Well Supplemental List  
(from Appendix B – SAP). (9 sheets)

Well Numbers	Sampling Project
299-E24-8	Surveillance Central
299-E24-25 <sup>2</sup>	216-C-1 Crib
299-E26-6	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E26-8	Surveillance Basalt
299-E26-9	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49) .
299-E26-10	LERF, Surveillance Central
299-E26-11	LERF, Surveillance Central
299-E26-14 <sup>3</sup>	LERF, Surveillance Central
<u>299-E26-15<sup>6</sup></u>	<u>LERF Surveillance Central</u>
299-E26-77 <sup>1</sup>	LERF, Surveillance Central
299-E26-78 <sup>1</sup>	LERF, Surveillance Central
299-E26-79 <sup>1</sup>	LERF, Surveillance Central
299-E27-4	W/SW of SST C
299-E27-5	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E27-7	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E27-8	B-63, LLBG 2, LLBG 2-PA
299-E27-9	B-63, LLBG 2, LLBG 2-PA
299-E27-10	Surveillance Central, LLBG 2, LLBG 2-PA
299-E27-11	B-63, LLBG 2, LLBG 2-PA
299-E27-12	SST C
299-E27-13	SST C
299-E27-16	B-63
299-E27-17	B-63, LLBG 2, LLBG 2-PA, Surveillance Central
299-E27-18	B-63, Surveillance Central
299-E27-19	B-63
299-E27-21	S of SST C
299-E27-22	NE of SST C
299-E27-23	SW of SST C
299-E27-24 <sup>3</sup>	SST C

## DOE/RL-2003-30 Rev. 3

Table 2. 200-BP-5 Operable Unit Groundwater Well Supplemental List  
(from Appendix B – SAP). (~~9~~ sheets)

Well Numbers	Sampling Project
299-E27-25 <sup>3</sup>	SST C
<u>299-E27-26<sup>6</sup></u>	<u>Replace 299-E27-7</u>
299-E28-4	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E28-7	Surveillance Central
299-E28-8	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E28-9	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E28-11	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E28-13	Surveillance Central
299-E28-14	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E28-15	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E28-28	LLBG 1, LLBG 1-PA, Surveillance Central
299-E28-30 <sup>2</sup>	216B-16 Crib
<u>299-E28-31<sup>6</sup></u>	<u>216-B-12 Crib</u>
<u>299-E28-32<sup>6</sup></u>	<u>216-B-6</u>
299-E29-1	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E29-54 <sup>2</sup>	B Plant
299-E32-2	LLBG 1, LLBG 1-PA, Surveillance Central
299-E32-3	LLBG 1, LLBG 1-PA
299-E32-5	LLBG 1, LLBG 1-PA, Surveillance Central
299-E32-7	LLBG 1, LLBG 1-PA, Surveillance Central
299-E32-8	LLBG 1, LLBG 1-PA, Surveillance Central
299-E33-3	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E33-4	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E33-5	216-BY Cribs
299-E33-9	SST B
299-E33-10	SST B
299-E33-14	216-BY Cribs
299-E33-17	SST B

## DOE/RL-2003-30 Rev. 3

Table 2. 200-BP-5 Operable Unit Groundwater Well Supplemental List  
(from Appendix B – SAP). (9 sheets)

Well Numbers	Sampling Project
299-E33-20	SST B
299-E33-21	SST B
299-E33-25	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E33-27	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E33-29	LLBG 1, LLBG 1-PA, SST B, Surveillance Central
299-E33-31	SST B
299-E33-32	SST B, Surveillance Central
299-E33-33	B-63, Surveillance Central
299-E33-36	B-63
299-E33-37	B-63, Surveillance Central
299-E33-40	216-BY Cribs
299-E33-47	E of SST B
299-E33-48	S of SST B
299-E33-49	S of SST B
299-E33-265 <sup>3</sup>	LLBG
299-E33-266 <sup>3</sup>	LLBG
299-E33-267 <sup>3</sup>	Monitoring well for FY2011 aquifer test
299-E33-268 <sup>3</sup>	Extraction well for FY2011 aquifer test
299-E33-334	SST B, Surveillance Central
299-E33-335	SST B, Surveillance Central
299-E33-337	SST B
299-E33-339	SST B
299-E33-350 <sup>4</sup>	Extraction well for perched water pumping site
299-E33-351 <sup>4</sup>	Extraction well for perched water pumping site
299-E33-360 <sup>5</sup>	Monitoring well for SST B
299-E33-361 <sup>5</sup>	Monitoring Well for 207-B
299-E34-2	LLBG 2, LLBG 2-PA, Surveillance Central
299-E34-5	LLBG 2, LLBG 2-PA, Surveillance Central
299-E34-7	LLBG 2, LLBG 2-PA, Surveillance Central
299-E34-8	B-63
299-E34-9	LLBG 2, LLBG 2-PA, Surveillance Central
299-E34-10	B-63, LLBG 2, LLBG 2-PA

## DOE/RL-2003-30 Rev. 3

Table 2. 200-BP-5 Operable Unit Groundwater Well Supplemental List  
(from Appendix B – SAP). (9 sheets)

Well Numbers	Sampling Project
299-E34-12	LLBG 2, LLBG 2-PA
299-E35-2	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-44-39B	Surveillance Central, B Pond
699-42-40A	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-42-40B	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-42-40C	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-43-40	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-43-41E	Surveillance Central
699-43-41F	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-43-41G	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-44-42	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-44-43B	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-46-31	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-46-32	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-46-33	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-46-91 <sup>4</sup>	Monitoring well for purgewater modular storage units
699-46-92 <sup>4</sup>	Monitoring well for purgewater modular storage units (optional)
699-46-93 <sup>4</sup>	Monitoring well for purgewater modular storage units (optional)
699-46-94 <sup>4</sup>	Monitoring well for purgewater modular storage units (optional)
699-47-35A	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-47-35B	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-47-35C	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-47-50	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)

## DOE/RL-2003-30 Rev. 3

Table 2. 200-BP-5 Operable Unit Groundwater Well Supplemental List  
(from Appendix B – SAP). (9 sheets)

Well Numbers	Sampling Project
699-48-18	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-48-35	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-48-48A	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-48-48AP	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-48-48AQ	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-48-48AR	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-48-48AS	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-48-48AT	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-48-50	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-49-28	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-49-31	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-49-32B	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-49-33	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-49-55B	216-BY Cribs
699-50-53B	Surveillance Basalt
699-50-28B	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-50-30	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-50-42	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-50-42P	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-50-45	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-50-48B	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)

## DOE/RL-2003-30 Rev. 3

Table 2. 200-BP-5 Operable Unit Groundwater Well Supplemental List  
(from Appendix B – SAP). (9 sheets)

Well Numbers	Sampling Project
699-51-36A	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-51-36B	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-51-36C	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-51-36D	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-51-46	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-52-19	Surveillance Central
699-52-46A	Surveillance Basalt
699-52-48	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-52-52	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-52-57	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-53-35	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-53-50	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-53-55AP	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-54-18A	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-54-18D	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-54-19	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-54-34	Surveillance Basalt
699-54-37A	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-54-42	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-54-57	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-55-21	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)

## DOE/RL-2003-30 Rev. 3

Table 2. 200-BP-5 Operable Unit Groundwater Well Supplemental List  
(from Appendix B – SAP). (9 sheets)

Well Numbers	Sampling Project
699-55-40	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-55-44	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-55-55	216-BY Cribs
699-56-42A	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-56-42C	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-56-42D	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-56-42E	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-56-42F	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-56-43	Surveillance Basalt
699-56-51	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-56-53	Surveillance Basalt
699-57-25A	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-57-29A	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-57-41B	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-57-42	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-58-41E	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-58-41F	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-58-48	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-59-55	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-60-57	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-60-59	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)

DOE/RL-2003-30 Rev. 3

Table 2. 200-BP-5 Operable Unit Groundwater Well Supplemental List  
(from Appendix B – SAP). (9 sheets)

Well Numbers	Sampling Project
699-60-60P	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-61-55B	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-61-57	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
699-62-43F	Surveillance 100 FR3
699-63-58	Surveillance 100 BC5
699-65-59A	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)

Notes:

Complete reference detail provided in Section 2.0 of this document.

LERF = Liquid Effluent Retention Facility

LLBG = low-level burial ground

SST = single-shell tank

Wells added to this list per the following change notices:

1. TPA-CN-206
2. TPA-CN-309\*
3. TPA-CN-406
4. TPA-CN-600
5. TPA-CN-618
6. TPA-CN-638

\*TPA-CN-309 identified three wells to be constructed using the construction identification number for each well (numbers preceded with a 'C'). They are identified on this list by their Well Identification Number. As a cross-reference, the construction wells from TPA-CN-309 are listed below, with their corollary Well Identification Number on Table 2 of this document:

Well C7513 = 299-E24-25

Well C7515 = 299-E28-30

Well C5860 = 299-E29-54

### TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 639	TPA CHANGE NOTICE FORM	Date: 11/6/14
Document Number, Title, and Revision: DOE/RL-2000-51, Interim Action Waste Management Plan for the 200-UP-1 Operable Unit, Revision 6.		Date Document Last Issued: September 2005
Originator: Rick Oldham		372-2426

**Description of Change:**  
Add 14 wells to Table A-1 of DOE/RL-2000-51, *Interim Action Waste Management Plan for the 200-UP-1 Operable Unit Rev. 6*. The wells are planned for drilling in FY2015.

B. Charboneau and E. 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*.

Table A-1 of DOE/RL-2000-51, *Interim Action Waste Management Plan for the 200-UP-1 Operable Unit, Revision 6*, is updated to reflect 14 wells which are planned for drilling in FY2015:

- Well 299-W22-115 will replace well 299-W22-45.
- Well 299-W22-93 will replace well 299-W22-44.
- Well 299-W22-116 will replace well 299-W22-50.
- Well 299-W23-236 will replace well 299-W23-15.
- Well 299-W22-114 will replace well 299-W22-9.
- Well 299-W19-116 will replace well 699-38-70.
- Well 699-29-66 will help delineate a chromium plume.
- Well 299-W19-115 will replace well 299-W19-8.
  
- Well 299-W21-3 will replace well 699-35-70.
- Well 299-W21-3 will replace well 699-35-70.
- Well 699-31-68 will help delineate a chromium plume.
- Well 699-30-57 will help delineate a chromium plume.
- Well 299-E20-1 will be an I-129 injection well.
- Well 299-E20-2 will be an I-129 injection well.
- Well 299-E11-1 will be an I-129 injection well.

Added text is shown in double underline. Deleted text is shown in ~~single line strike through~~.

A location plat for the FY2015 wells is attached.

**Justification and Impacts of Change:**

The replacement wells are for wells that are going dry. The I-129 injection wells are needed to control the iodine plume. Three other wells are to help delineate a chromium plume.

The well list updates made by this change will be reflected in the next revision (Revision 7) of the waste management plan. The attached well list, Table A-1, incorporates all changes from TPA CN#s 193, 328, 403, 419 and 620.

**Approvals:**

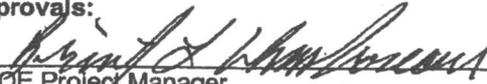
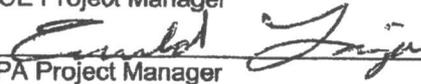
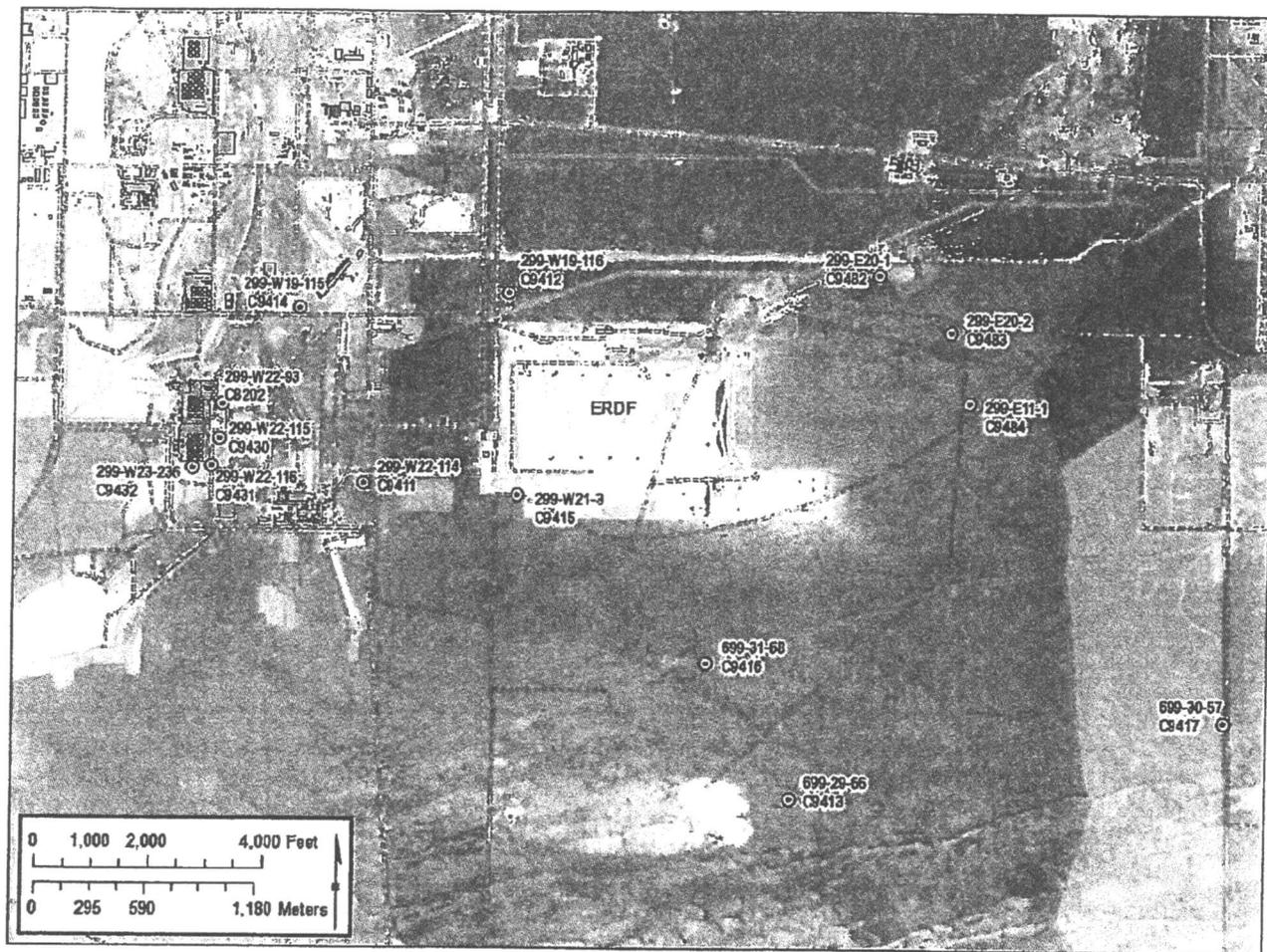
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DOE Project Manager	Date	
	11-6-14	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
EPA Project Manager	Date	
N/A		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved
Ecology Project Manager	Date	

Table A-1, 200-UP-1 CERCLA Monitoring Well List

299-W14-56	299-W19-31	299-W22-23	699-35-66A
299-W14-57	299-W19-32	299-W22-26	699-35-70
299-W14-58	299-W19-34A	299-W22-28	699-35-78A
299-W15-37	299-W19-34B	299-W22-37	699-36-61A
299-W18-15	299-W19-35	299-W22-38	699-36-70A
299-W18-20	299-W19-36	299-W22-40	699-36-70B
299-W18-21	299-W19-37	299-W22-45	699-38-65
299-W18-22	299-W19-39	299-W22-46	699-38-68A
299-W18-29	299-W19-40	299-W22-47	699-38-70
299-W18-30	299-W19-43	299-W22-48	699-38-70B
299-W18-33	299-W19-46	299-W22-49	699-38-70C
299-W18-250	299-W19-47	299-W22-60	699-40-62
299-W18-251	299-W19-48	299-W22-74	699-40-65
299-W-18-260	299-W19-49	299-W22-83	299-W19-104
299-W19-1	(29-W19-50) 299-W19-101	299-W-22-89	299-W19-105
299-W19-4	299-W19-90	<u>299-W22-93</u>	299-W22-69
299-W19-5	299-W19-91	299-W22-113	299-W22-72
299-W19-7	299-W19-92	<u>299-W22-114</u>	299-W22-86
299-W19-20	299-W19-93	<u>299-W22-115</u>	699-34-72
299-W19-26	299-W19-113	<u>299-W22-116</u>	699-33-74
<u>299-W19-115</u>	299-W19-114	299-W23-4	699-33-75
<u>299-W19-116</u>	299-W21-1	299-W23-8	699-32-76
<u>299-E20-1</u>	299-W21-2	299-W23-9	699-33-76
<u>299-E20-2</u>	<u>299-W21-3</u>	299-W23-10	299-W22-87
<u>299-E11-1</u>	299-W22-4	299-W23-14	299-W22-88
	299-W22-8	299-W23-15	299-W19-107
	299-W22-9	299-W23-16	299-W22-90
	299-W22-20	299-W23-17	299-W22-91
	299-W22-22	299-W23-19	299-W22-92
	<u>299-W23-236</u>	299-W23 -21	299-W22-93
		299-W26-12	299-W22-94
		299-W26-13	299-W22-95
		299-W26-14	299-W22-96
		<u>699-29-66</u>	<u>699-30-57</u>
		699-30-66	<u>699-31-68</u>
		699-32-62	
		699-32-72A	



Location Plat for FY2015 Wells

### TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 640	TPA CHANGE NOTICE FORM	Date: 11/04/2014
Document Number, Title, and Revision: DOE/RL-2004-18, <i>Waste Control Plan for the 200-PO-1 Operable Unit</i> , Revision 1.		Date Document Last Issued: June 2008
Originator: Rick Oldham		Phone: 372-2426

**Description of Change:**  
Add four monitoring wells, to be drilled east of the Nonradioactive Dangerous Waste Landfill and the Solid Waste Landfill, to the Waste Control Plan for the 200-PO-1 Operable Unit.

B. L. Charboneau and N. Menard 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*.

Four monitoring wells are added to Table A-1, 200-PO-1 Waste Control Plan Well Identification List, in DOE/RL-2004-18, *Waste Control Plan for the 200-PO-1 Operable Unit*:

- Well 699-26-33A replaces dry well 699-26-33.
- Well 699-25-34F replaces dry well 699-25-34A.
- Well 699-24-34D replaces dry well 699-24-34A.
- Well 699-24-34E replaces dry well 699-24-34B.

Revised Table A-1 is provided as is a well location plat. Added text is shown in double underline on Table A-1.

**Justification and Impacts of Change:**  
The wells replace monitoring wells that have gone dry. This change will be reflected in the next revision to DOE/RL-2004-18, *Waste Control Plan for the 200-PO-1 Operable Unit*. The attached well list, Table A-1, incorporates all changes from TPA CN#s 408 and 619.

**Approvals:**

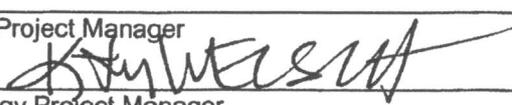
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N/A _____ EPA Project Manager	_____ Date	<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved
 _____ Ecology Project Manager	11/6/14 _____ Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved

Table A-1. 200-PO-1 Waste Control Plan Well Identification List. (2 Pages)

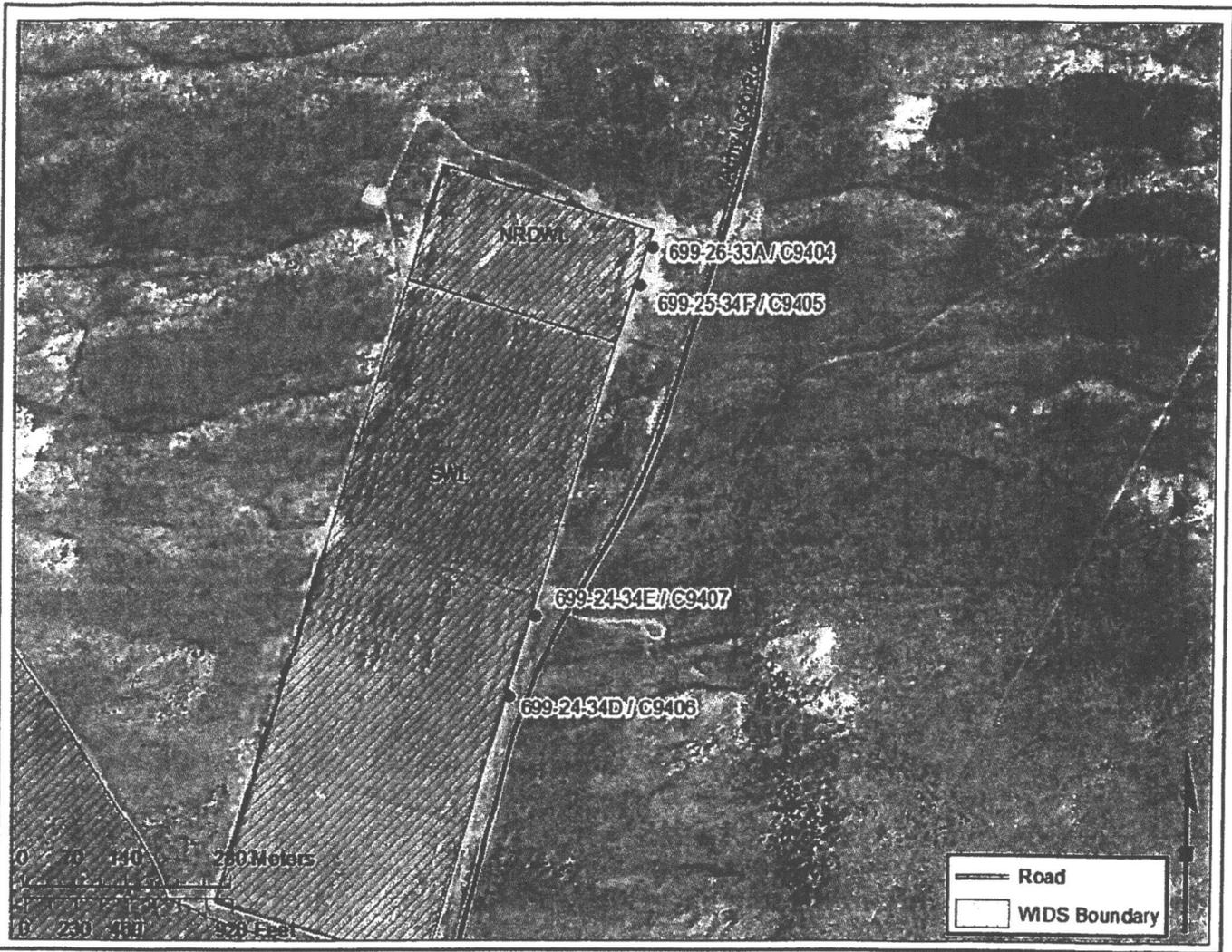
299-E13-1 <sup>a</sup>	299-E24-21 <sup>a</sup>	299-E25-42 <sup>a</sup>	699-14-38 <sup>a</sup>
299-E13-3 <sup>a</sup>	299-E24-22 <sup>a</sup>	299-E25-43 <sup>a</sup>	699-15-E13 <sup>b</sup>
299-E13-4 <sup>a, b</sup>	299-E24-23 <sup>b</sup>	299-E25-44 <sup>a</sup>	699-16-E3A <sup>b</sup>
299-E13-5 <sup>a, b</sup>	299-E24-24 <sup>a</sup>	299-E25-47 <sup>a</sup>	699-17-5 <sup>a</sup>
299-E13-6 <sup>a, b</sup>	299-E24-33 <sup>a</sup>	299-E25-48 <sup>a</sup>	699-18-21 <sup>b</sup>
299-E13-7 <sup>a</sup>	299-E24-94 <sup>a</sup>	299-E25-93 <sup>a, b</sup>	699-18-25A <sup>b</sup>
299-E13-8 <sup>a, b</sup>	299-E25-1 <sup>a</sup>	299-E25-94 <sup>a</sup>	699-19-23 <sup>b</sup>
299-E13-9 <sup>a, b</sup>	299-E25-2 <sup>a</sup>	299-E25-236	699-19-43 <sup>a</sup>
299-E13-11 <sup>a, b</sup>	299-E25-3 <sup>a</sup>	299-E26-4 <sup>a</sup>	699-20-E5A <sup>a</sup>
299-E13-12 <sup>a, b</sup>	299-E25-4 <sup>a</sup>	299-E26-5 <sup>a</sup>	699-20-E8 <sup>b</sup>
299-E13-14 <sup>a, b</sup>	299-E25-5 <sup>a</sup>	299-E26-12 <sup>a</sup>	699-20-E12O <sup>a, b</sup>
299-E13-16 <sup>a, b</sup>	299-E25-6 <sup>a</sup>	299-E26-13 <sup>a</sup>	699-20-E12S <sup>a</sup>
299-E13-17 <sup>a, b</sup>	299-E25-7 <sup>a</sup>	499-S0-7 <sup>a</sup>	699-20-20 <sup>a</sup>
299-E13-18 <sup>a, b</sup>	299-E25-8 <sup>a</sup>	499-S0-8 <sup>a</sup>	699-21-6 <sup>a</sup>
299-E13-19 <sup>a, b</sup>	299-E25-9 <sup>a</sup>	499-S1-8H	699-22-35 <sup>a</sup>
299-E16-1 <sup>a, b</sup>	299-E25-13 <sup>a</sup>	499-S1-8J <sup>a, b</sup>	699-23-33 <sup>b</sup>
299-E16-2 <sup>a</sup>	299-E25-17 <sup>a</sup>	699-2-3 <sup>a</sup>	699-23-34A <sup>a</sup>
299-E17 <sup>a</sup>	299-E25-18 <sup>a</sup>	699-2-6A <sup>a</sup>	699-23-34B <sup>a</sup>
299-E17-12 <sup>a</sup>	299-E25-19 <sup>a</sup>	699-2-7 <sup>a</sup>	699-24-1P <sup>a, b</sup>
299-E17-13 <sup>a</sup>	299-E25-20 <sup>a</sup>	699-2-E14 <sup>b</sup>	699-24-33 <sup>a</sup>
299-E17-14 <sup>a, b</sup>	299-E25-21 <sup>b</sup>	699-7-6 <sup>b</sup>	699-24-34A <sup>a</sup>
299-E17-16 <sup>a</sup>	299-E25-22 <sup>a</sup>	699-8-17 <sup>a</sup>	699-24-34B <sup>a</sup>
299-E17-18 <sup>a</sup>	299-E25-23 <sup>b</sup>	699-8-25 <sup>a</sup>	699-24-34C <sup>a</sup>
299-E17-19 <sup>a</sup>	299-E25-24 <sup>b</sup>	699-9-E2 <sup>a</sup>	699-24-35 <sup>a</sup>
299-E17-21 <sup>a, b</sup>	299-E25-25 <sup>b</sup>	699-10-3A <sup>b</sup>	699-24-46 <sup>a, b</sup>
299-E17-22 <sup>a</sup>	299-E25-26 <sup>a</sup>	699-10-E12 <sup>a, b</sup>	699-25-20 <sup>b</sup>
299-E17-23 <sup>a</sup>	299-E25-28 <sup>a</sup>	699-10-30B <sup>b</sup>	699-25-33A <sup>a, b</sup>
299-E17-25 <sup>a</sup>	299-E25-29P <sup>a</sup>	699-10-54A <sup>a, b</sup>	699-25-34A <sup>a</sup>
299-E17-26 <sup>a</sup>	299-E25-29Q <sup>a</sup>	699-11-E10 <sup>b</sup>	699-25-34B <sup>a</sup>
299-E18-1 <sup>a</sup>	299-E25-31 <sup>a</sup>	699-12-1B <sup>b</sup>	699-25-34C
299-E23-1 <sup>a</sup>	299-E25-32P <sup>a</sup>	699-12-2C <sup>a</sup>	699-25-34D <sup>a</sup>
299-E24-3 <sup>b</sup>	299-E25-32Q <sup>a</sup>	699-12-4D <sup>a</sup>	699-26-15A <sup>a</sup>
299-E24-4 <sup>a</sup>	299-E25-34 <sup>a</sup>	699-13-0A <sup>a</sup>	699-26-33 <sup>a, b</sup>
299-E24-5 <sup>a</sup>	299-E25-35 <sup>a</sup>	699-13-1A <sup>a</sup>	699-26-34A <sup>a</sup>
299-E24-13 <sup>a</sup>	299-E25-36 <sup>a</sup>	699-13-1C <sup>a, b</sup>	699-26-34B <sup>a</sup>
299-E24-14 <sup>a</sup>	299-E25-37 <sup>a</sup>	699-13-1E <sup>a</sup>	699-26-35A <sup>a</sup>
299-E24-16 <sup>a</sup>	299-E25-39 <sup>b</sup>	699-13-2D <sup>a</sup>	699-26-35C <sup>a</sup>
299-E24-18 <sup>a</sup>	299-E25-40 <sup>a</sup>	699-13-3A <sup>a</sup>	699-27-8
299-E24-20 <sup>a</sup>	299-E25-41 <sup>a</sup>	699-13-26 <sup>b</sup>	699-28-40 <sup>a</sup>
699-29-4 <sup>a</sup>	699-37-E4 <sup>a</sup>	699-42-39B <sup>a</sup>	699-S3-E12 <sup>a, b</sup>
699-31-8 <sup>b</sup>	699-37-43 <sup>a</sup>	699-42-40A <sup>a</sup>	699-S3-25 <sup>a</sup>
699-31-11 <sup>a</sup>	699-37-47A <sup>a</sup>	699-42-40C <sup>a, b</sup>	699-S5-E16A <sup>b</sup>
699-31-17 <sup>b</sup>	699-38-15 <sup>a</sup>	699-42-42B <sup>a</sup>	699-S5-E16B <sup>b</sup>
699-31-31 <sup>a, b</sup>	699-38-19 <sup>b</sup>	699-43-3 <sup>a</sup>	699-S6-E4A <sup>a</sup>

Table A-1. 200-PO-1 Waste Control Plan Well Identification List. (2 Pages)

699-31-31P	699-39-23 <sup>b</sup>	699-43-18 <sup>b</sup>	699-S6-E4B <sup>a</sup>
699-32-18 <sup>b</sup>	699-39-39 <sup>a</sup>	699-43-40 <sup>a</sup>	699-S6-E4C <sup>b</sup>
699-32-22A <sup>a, b</sup>	699-40-1 <sup>a</sup>	699-43-41E <sup>a</sup>	699-S6-E4D <sup>a</sup>
699-32-22B <sup>a, b</sup>	699-40-33A <sup>a</sup>	699-43-44 <sup>a</sup>	699-S6-E4E <sup>a</sup>
699-32-43 <sup>a, b</sup>	699-40-36 <sup>a</sup>	699-43-45 <sup>a</sup>	699-S6-E4J <sup>b</sup>
699-33-14 <sup>b</sup>	699-41-1A <sup>a, b</sup>	699-44-39B <sup>a</sup>	699-S6-E4K <sup>a</sup>
699-33-42 <sup>a</sup>	699-41-23 <sup>a, b</sup>	699-45-42 <sup>a</sup>	699-S6-E4L <sup>a</sup>
699-33-56 <sup>a, b</sup>	699-41-25 <sup>b</sup>	699-46-4 <sup>a, b</sup>	699-S6-E14A <sup>a, b</sup>
699-34-41B <sup>a</sup>	699-41-35 <sup>a</sup>	699-46-21B <sup>a, b</sup>	699-S6-E16B <sup>b</sup>
699-34-42 <sup>a</sup>	699-41-40 <sup>a</sup>	699-47-5 <sup>a</sup>	699-S8-19 <sup>a</sup>
699-35-9 <sup>a</sup>	699-41-42 <sup>a</sup>	699-48-7A <sup>a</sup>	699-S11-E12AP <sup>a, b</sup>
699-35-16 <sup>b</sup>	699-42-12A <sup>a</sup>	699-49-13E <sup>a</sup>	699-S12-3 <sup>a</sup>
699-35-19B <sup>b</sup>	699-42-21 <sup>b</sup>	699-50-28B <sup>a</sup>	699-S19-E13 <sup>a, b</sup>
699-36-17 <sup>b</sup>	699-42-37 <sup>a</sup>	699-52-19 <sup>a</sup>	699-S19-E14 <sup>a</sup>
699-37-E1 <sup>b</sup>	699-42-39A <sup>a</sup>	699-S2-34B <sup>a, b</sup>	699-25-34E
699-24-36	699-26-38	299-E25-237	<u>699-26-33A</u>
<u>699-25-34F</u>	<u>699-24-34D</u>	<u>699-24-34E</u>	

<sup>a</sup> Listed in DOE/RL-2003-04, *Sampling and Analysis Plan for the 200-PO-1 Groundwater Operable Unit.*

<sup>b</sup> Listed in DOE/RL-2007-31, *Remedial Investigation/Feasibility Study Work Plan for the 200-PO-1 Groundwater Operable Unit.*



Location Plat for Fiscal Year 2015 Wells

**TRI-PARTY AGREEMENT**

Change Notice Number TPA-CN- 641	TPA CHANGE NOTICE FORM	Date: October 29, 2014
Document Number, Title, and Revision: DOE/RL-2010-72, Sampling Analysis Plan for Remediation Wells in the 200-ZP-1 Operable Unit, Revision 2		Date Document Last Issued: June 4, 2014
Originator: Mark Byrnes		Phone: 509 373-3996

**Description of Change:**  
Tables 1-1 and 3-1, Estimated Depth of Each Proposed Extraction, Injection, and Monitoring Well and Well Sample/Measurement Locations and Depth, of the Sampling Analysis Plan need to be revised to reflect sampling requirements in new monitoring wells.

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*.

Sampling requirements for Wells MW-1 and MW-2 will be implemented during drilling of new wells

Inserted text in Table 1-1 on page 1-6 is indicated by double underline.

The deleted text is indicated by ~~strikethrough~~ in 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:**

New monitoring wells are needed in areas without wells to monitor contaminant plume migration and to define plume boundaries.

**Approvals:**

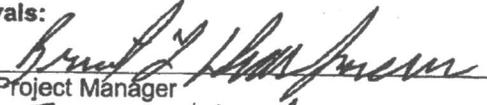
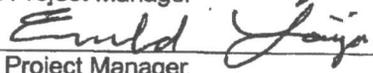
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EPA Project Manager	Date	
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Ecology Project Manager	Date	

Table 1-1. Estimated Depth of Each Proposed Extraction, Injection, and Monitoring Well

Well Name	Extraction (YE) Injection Well (YJ) Monitoring Well (MW)	Estimated Depth to Water (ft bgs)	Estimated Depth to Upper Caliche (ft bgs)	Estimated Depth to Upper Ringold Unit (ft bgs)	Estimated Depth to Ringold Unit E (ft bgs)	Estimated Depth to Ringold Lower Mud (ft bgs)	Estimated Depth to Basalt (ft bgs)
299-W6-13	YJ-1	273	56	69	108	NP	450
299-W6-14	YJ-2	256	59	NA	95	NP	465
299-W10-36	YJ-3	246	98	105	131	432	505
299-W15-228	YJ-7	232	160	NA	164	448	561
299-W18-41	YJ-8	219	113	NP	159	443	560
699-49-69	YJ-9	261	10?	NP	173	NP	372
699-45-67B	YJ-10	292	NA	148*	195	314	437
699-44-67	YJ-12	312	105	NP	220	338	472
699-42-67	YJ-14	321	120	270	280	381	535
699-40-67	YJ-15	325	120	270	403	384	530
699-38-64	YJ-16	338	235	NA	286	387	513
699-43-67B	YJ-17	325	118	NP	210	363	495
699-46-68	YJ-23	280	61	NP	193	306	433
299-W15-229	YJ-24	256	158	NA	183	459	564
299-W7-13	YJ-25	252	61	105	134	NP	460
299-W19-111	YE-11	261	144	138	163	437	545
299-W11-97	YE-13	294	152	NA	117?	426?	535
299-W6-15	YE-14	293	110	NA	157?	NP	475
299-W5-1	YE-17	295	100*	NA	159?	NP	460
299-W14-22	YE-20	303	150	NP	180	NP	515
<u>299-W5-2</u>	<u>MW-1</u>	<u>281</u>	<u>100*</u>	<u>NP</u>	<u>179</u>	<u>NP</u>	<u>460</u>
<u>299-W13-2</u>	<u>MW-2</u>	<u>313</u>	<u>152</u>	<u>156</u>	<u>249</u>	<u>411</u>	<u>535</u>

Sources: PNNL-13858, *Revised Hydrogeology for the Suprabasalt Aquifer System, 200-West Area and Vicinity, Hanford Site, Washington*, was used to estimate Ringold Unit E outside of the 200 West Area (Plate 7), Ringold lower mud (Plate 5), and top of basalt (Plate 2).

Water levels are estimated from Figure 2.8-2 of DOE/RL-2008-66, *Hanford Site Groundwater Monitoring for Fiscal Year 2008*; March 2008 data.

WHC-SD-EN-TI-014, *Hydrogeologic Model of the 200 West Groundwater Aggregate Area*, was used to estimate the top of the caliche (Figure 2-12), top of upper Ringold (Figure 2-10), and Ringold Unit E (Figure 2-8) in the 200 West Area.

\* May not be present.

bgs = below ground surface      NA = not available      NP = not present      ? = questionable selection  
YE = extraction well              YJ = injection well      MW = Monitoring Well

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

Sampling Location	Vadose Zone Sampling Depth, Frequency, and Analysis (ft bgs)	Water Samples	Soil Samples (Sediment) Below Water Table <sup>a</sup>
YE-11, YE-13, YE-14, YE-17, YE-20, YJ-1, YJ-2, YJ-3, YJ-7, YJ-8, YJ-9, YJ-10, YJ-12, YJ-14, YJ-15, YJ-16, YJ-17, and <u>YJ-23, MW-1, and MW-2</u>	<p><b>Ground surface to water table at each of the new wells:</b> 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>	<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"> <li>• Carbon tetrachloride for quick-turnaround samples<sup>b</sup></li> <li>• Table 1-2 constituents at standard turnaround time</li> <li>• Field screening parameters (temperature, pH, dissolved oxygen, specific conductance, and NTU)</li> </ul>	<p>During drilling, soil samples to be collected:</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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</li> </ul>
YJ-24 and YJ-25	<p><b>Ground surface to water table at each of the new wells:</b> 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>	<p>During drilling, water samples to be collected (in accordance with Section 3.5.6) as follows: one sample just below the water table, one sample at about the middle of the aquifer (~390 ft bgs), and one sample just above the Ringold lower mud unit. Each sample will be analyzed for volatile organic compounds only.</p>	<p>During drilling, soil samples to be collected:</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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</li> </ul>

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

bgs = below ground surface    YE = extraction well    YJ = injection well    MW = monitoring well    NTU = nephelometric turbidity unit

