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**DISTRIBUTION**
**PROJECT MANAGERS' MEETING,**
**200 AREA GROUNDWATER and SOURCE OPERABLE UNITS**
**January 21, 2016**

DOE/RL
(No hard copy distribution)

EPA

| | |
|---|---|
| Emerald Laija | A3-46 |

Ecology

| | |
|---|---|
| Nina Menard | H0-57 |

CHPRC

| | |
|---|---|
| Jane V. Borghese (original) | H8-43 |

| | |
|---|---|
| Administrative Record (2) | H6-08 |
| Correspondence Control | G3-39 |

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**Meeting Minutes Transmittal/Approval**
**Project Managers' Meeting**
**200 Area Groundwater and Source Operable Units**
**January 21, 2016**

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**APPROVAL:** _____ **DATE:** 1/21/2016
**Mike Cline, 200 Area Unit Manager, DOE/RL**

**APPROVAL:** _____ for **DATE:** 1/21/16
**Al Farabee, 200 Area Project Manager, DOE/RL**

**APPROVAL:** _____ for **DATE:** 1/21/16
**Emerald Laija, 200 Area Project Manager, EPA**

**APPROVAL:** _____ FOR **DATE:** 1/21/16
**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 and 5 to these minutes. Approval does not apply to any other attachments, which are included in these minutes for informational purposes.**

**Minutes of the 200 Area Project Managers' Meeting of January 21, 2016 are attached. Minutes are comprised of the following:**

| | |
|---|---|
| **Attachment 1** | **Attendance Record** |
| **Attachment 2** | **Agreements and Issues List** |
| **Attachment 3** | **Action Item List** |
| **Attachment 4** | **Operable Units and Facilities Status** |
| **Attachment 5** | **Documents for the Administrative Record** |
| **Attachment 6** | **Groundwater Monitoring Report – January 2016 (December 2015 Data)** |

CHPRC-1600279
Attachment 1

# 200 Area Project Managers' Status Meeting
## January 21, 2016

| PRINTED NAME | ORGANIZATION | O.U. ROLE | TELEPHONE |
|---|---|---|---|
| KIM WELSCH | ECOLOGY | REGULATOR | 372-7882 |
| Michael Turner | MSA TPA | TPA | 376-2872 |
| Dan Beers | WDOH | Regulator | 943-6505 |
| SHELLEY GIMON | ODOE | | (541) 963-0853 |
| Kate Amrhein | DOE | | 376-9391 |
| Tim Mullin | Ecology | Regulator | 372-7970 |
| JULIE REDDICK | DOE | SME | 376-2003 |
| Mostafa Kamal | DOE | | 376-0289 |
| Ben Vannah | DOE | TPA | 376 9623 |
| Michael Cline | DOE | PM | 376-6070 |
| John Sands | DOE | | 372-2282 |
| DENNIS [illegible] | EPA | | |
| JOE AXTELL | DOE | | 373-6687 |
| Jim Hanson | DOE | SME | 373-9068 |
| Deborah Singleton | Ecology | | 372-7923 |
| Elis Eberlein | Ecology | | 372-7906 |
| Stephanie Schleif | ECY | PM ECY | 372-7929 |
| Jennie Stults | CHPRC | proj mgr | 376-7510 |
| Jane Bagley | CHPRC | | |
| [illegible] | DOE | | 373 9626 |
| Wade Wooley | DOE-RL | RL-640 | 3722889 |

# 200 Area Project Managers' Meeting
# Agreements and Issues List
# January 21, 2016

**Agreement:** None

**Issue**: None

**Announcements**: None

**Delegations for January 21, 2016 PMM meeting**:

| | |
|---|---|
| DOE/RL | Wade Woolery for Al Farabee |
| EPA | Dennis Faulk for Emerald Laija |
| Ecology | Kim Welsch for Nina Menard |

# 200 Area Project Managers' Meeting
## January 21, 2016

### OPEN ACTION ITEM TRACKING

| Action # | Action/Subject | Assigned To | Owed To | Assigned Date | Original Due Date | Adjusted Due Date | Status |
|---|---|---|---|---|---|---|---|
| 165 | EPA requests status of REDOX roof. | RL/ W. Woolery | EPA | 9/17/15 | 11/19/15 | 3/17/2016 | status was given and will be revisited at March meeting. |
| 167 | DOE to discuss completion criteria for M-016-119-T01 (due date is 2020) with EPA and Ecology | RL/J.P. Hanson | EPA and Ecology | 11/19/15 | 3/31/16 | | Closed for EPA; Ecology still needs to review |
| 168 | Develop change package for 207-A to add to TPA Appendix C | J. Borghese and B. Vannah | Ecology/N. Menard | 11/19/15 | 1/29/16 | | Closed |
| 169 | EPA requests breifing on annual surveillance for REDOX | RL/Wade Woolery | EPA | 11/19/15 | 1/21/16 | | Closed. Completed 1/21/16 |

# 200 AREA PROJECT MANAGERS' MEETING

Milestones and Operation Status by OU
January 21, 2016

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

- RL has requested that the responses to Ecology comments on the RI/FS Work Plan Draft A be moved out to April 14, 2016 so that the final negotiated Central Plateau principals and parameters can be included.
- Drilling began October 1, 2015, at the BY Cribs locations using a Becker Hammer rig. At this time, casing has successfully been installed from surface to below the high radiological interval in 14 of 21 boreholes as indicated by downhole logging. Geophysical logging at location C9487 (near the 216-B-7 A & B Cribs in 200 East) revealed that the high radiological risk interval extends below the original estimated depth. The Becker Hammer rig will be remobilized to drill this borehole deeper. Additionally, boreholes C9512 and C9502 located in 200 West area (216-S-9 and 216-T-6) will need to be re-drilled due to broken casing. Eight borehole locations have been cleared for sonic drilling, which will drill from below the high radiological risk interval to total depth. The sonic rig mobilized to the BY Cribs on December 14, 2015, and drilled to a depth of 52.9 ft, but was suspended due to adverse weather conditions and the associated radiological risk. The sonic rig is expected to continue drilling in the BY Cribs area on January 11, 2015, and the Becker Hammer is expected to return to C9512 in 200 West on January 18, 2015.

| Primary Borehole ID# | Waste Site | Becker/ Geoprobe Push Depth (ft) | Estimated High RAD Interval (ft) | Current Sonic Rig Depth (ft) | Target Depth of Investigation (ft) | Total Number of Samples Collected | Total Number of Samples To Be Collected |
|---|---|---|---|---|---|---|---|
| C9550 | By Cribs | 43.8 | 15-45 | 52.9 | 197 | 3 | 11 |
| C9549 | By Cribs | 45.4 | 20-45 | TBD | 197 | 7 | 12 |
| C9552 | By Cribs | 45 | 10-45 | TBD | 197 | 3 | 14 |
| C8706 | By Cribs | 45.3 | 14-45 | TBD | 197 | 3 | 11 |
| C9491 | 216-B-37 | 51.2 | 14-52 | TBD | 222 | 3 | 8 |
| C9487 | 216-B-7 A&B | 33.4 | 19-33 | TBD | 237 | 3 | 13 |
| C9490 | 219-B-9 | 34.2 | 14-34 | TBD | 250 | 3 | 9 |
| C9489 | 219-B-9 | 34.2 | 12-35 | TBD | 250 | 3 | 9 |
| C9492 | 216-T-5 | 40.5 | NA | TBD | 95 | 3 | 8 |
| C9494 | 216-T-5 | 40.4 | 0-35 | TBD | 95 | 0 | GPL only |
| C9495 | 216-T-14 | 35.8 | 0-35 | TBD | 105 | 0 | GPL only |
| C9496 | 216-T-15 | 35.7 | 0-35 | TBD | 105 | 0 | GPL only |
| C9505 | 216-T-15 | 43.5 | 10-34 | TBD | 105 | 0 | 5 |
| C9510 | 216-T-25 | 39 | 14-40 | TBD | 115 | 0 | 9 |
| C9511 | 216-T-23 | 43.9 | 14-40 | TBD | 115 | 0 | 9 |
| C9506 | 216-T-18 | TBD | 12-34 | TBD | 100 | 0 | 8 |
| C9512 | 216-S-9 | TBD | 30-46 | TBD | 134 | 0 | 9 |
| C9514 | 216-S-21 | TBD | 15-40 | TBD | 121 | 0 | 9 |
| C9488 | 216-B-8 | TBD | 25-42 | TBD | 224 | 0 | 8 |

| Primary Borehole ID# | Waste Site | Becker/ Geoprobe Push Depth (ft) | Estimated High RAD Interval (ft) | Current Sonic Rig Depth (ft) | Target Depth of Investigation (ft) | Total Number of Samples Collected | Total Number of Samples To Be Collected |
|---|---|---|---|---|---|---|---|
| C9499 | 216-T-6 | TBD | 15-43 | TBD | 105 | 0 | 8 |
| C9502 | 216-T-6 | TBD | 15-43 | TBD | 105 | 0 | GPL only |

- The perched water removal system was shut down on August 20, 2015, to support construction of two new perched water removal stations and retrofit of the original station. Construction of the new system is complete and undergoing Operational Acceptance Testing. The new system is expected to be fully operational by mid-January 2016.

**M-015-110B**: Submit CMS & FS and PP/PCAD for the 200-DV-1 OU to Ecology, 9/30/2015

- Status: Tentative Agreement signed on 10/26/15 proposed a due date of 9/30/2023.

Regulatory Agency Comments: N/A

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

- Submitted draft 200-IS-1 change package C-13-01 for Ecology review on December 19, 2015, (change package incorporates the TSD agreements between RL and Ecology and describes the criteria used during the workshops for TSD determination).
- Provided Ecology with chapters 1 and 2 of the 200-IS-1 RI/FS work plan for informal review; conducted workshop with Ecology and RL on November 16, 2015, to receive and resolve comments. Received Ecology's remaining chapters 1 and 2 comments on December 30, 2015; addressing resolution and text updates.
- Continue efforts preparing waste site scoping summaries and defining risk evaluation approaches
- Preparing draft delivery schedule for 200-EA-1 WP initiation

**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.

- Status: Dispute resolution. The parties are currently working on identifying the Work Plan scope (e.g., draft change package C-13-01), TSD identification, and associated revised delivery schedule. The dispute resolution is currently extended to February 29, 2016.

**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

- Status: Tentative Agreement signed on 10/26/15 proposed a due date of 9/30/17.

**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

- Status: Tentative Agreement signed on 10/26/2015 revised the text to remove the 200-IS-1 OU and proposed a due date for 200-EA-1 to 11/30/2022.

**P-015-92C:** Submit CMS & FS Report & Proposed CA Decision/PP for the 200-IS-1 OU to Ecology, 03/31/23

- Status: Tentative Agreement signed on 10/26/2015 proposed milestone.

Regulatory Agency Comments: N/A

**200-SW-2** Ecology Lead (RL- Doug Hildebrand, CHPRC – Bert Day)

- Completed aerial radiation survey field activities supporting RL on September 27, 2015.
- Requested extension through March 2016, for the Rev. 0 RI/FS work plan delivery. This extension was requested to allow time for agency agreement on the Central Plateau principals and parameters.
- Received Draft B RI/FS WP comments from the Confederated Tribes and Bands of the Yakama Nation from RL on October 5, 2015.

**M-015-93B:** Submit RFI/CMS & RI/FS Report & Proposed CA Decision/PP for 200-SW-2, 12/31/2016

- Status: Tentative Agreement signed on 10/26/15 proposed a due date of 1/31/2023.

Regulatory Agency Comments: EPA has completed all discussion on the Central Plateau Principles and Parameters document. Ecology will be working with the Yakama Nation on their comments on SW-2 RI/FS work plan.

**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. Due to budgetary constraints, no further action is scheduled for FY2015 or planned for FY2016.

Regulatory Agency Comments: Ecology has received for review the Interim Status GW monitoring plan for the SWL

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

- The 200-BC-1&200-WA-1 Draft B RI/FS Work Plan has been reviewed by EPA and comments were provided on November 23, 2015.

**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

- Status: Tentative Agreement signed on 10/26/2015 proposed a due date of 7/31/2021.

**P-015-98**: Complete remedial investigation of U Plant related waste sites located in 200-WA-1 in accordance with the WA-1 RI/FS Work Plan, 6/30/2019

- Status: Tentative Agreement signed on 10/26/2015 proposed milestone.

**P-015-99**: Complete remedial investigation of PFP related waste sites located in 200-WA-1 in accordance with the WA-1 RI/FS Work Plan, 6/30/2019

- Status: Tentative Agreement signed on 10/26/2015 proposed milestone.

Regulatory Agency Comments: N/A

**200-CW-1, 200-CW-3, 200-OA-1** EPA Lead (RL –Ben Vannah, CHPRC – Bert Day)

- Nothing to report

**M-015-38B:** Submit a FS Report and 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, revised due date to be identified by 10/30/2015

- Status: Tentative Agreement signed on 10/26/2015 proposed text changes and a due date of 7/31/2023.

Regulatory Agency Comments: N/A

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

- Completed the 200-BP-5 Treatability Test during November 2015. Test results demonstrate that the aquifer below the B-Complex is highly transmissive. Presented preliminary test results to Ecology and EPA on December 17, 2015, and issued meeting minutes on December 21, 2015. The path forward is to continue extraction to further assess contaminant removal.
  - Request EPA and Ecology concurrence to continue 200-BP-5 groundwater extraction under the treatability test plan/
- Initiated the design of an extension to the 200-BP-5 cross-site pipeline from the current extraction well 299-E33-268 to well 299-E33-360 located on the north side of B-Plant.
- Ecology issued a letter on October 23, 2015, that provided notice that they are suspending review of the 200-BP-5 and 200-PO-1 RI reports due to fate and transport modeling issues. Accordingly, work on the FS and PP have stopped until the issue is resolved.
- Completed 200-BP-5 EE/CA comment resolution meetings with Ecology on November 12, and November 18, 2015. Additional Ecology comments were received December 15, 2015, and are under comment resolution.

**M-015-21A:** Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology, 6/30/2015

- Status: Tentative Agreement signed on 10/26/2015 proposed a due date of 6/30/2018.

Regulatory Agency Comments: Ecology will send RL a letter regarding resuming the review of the 200-BP-5 RI and 200-PO-1 RI addendum.

**M-015** Dual Agency Lead

- The major milestone may be impacted by the interim OU milestones statused above.

**M-015-00:** Complete the RI/FS Process for all Non-Tank Farm OUs, 12/31/2016

- Status: Tentative Agreement signed on 10/26/2015 proposed a due date of 6/30/2026.

Regulatory Agency Comments: N/A

**200-PW-1/3/6 and CW-5** EPA Lead (RL- Robert Long, CHPRC – Patrick Baynes)

- Requested and obtained a 180 day extension to respond to EPA comments on the RD/RAWP. Per this extension, Rev 0 of the RD/RAWP will be provided to EPA for their approval by June 1, 2016.

Regulatory Agency Comments: N/A

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

- Delivered a historical data evaluation to EPA on October 20, 2015, verifying that no carbon tetrachloride source has been missed to the south. Based on this evaluation, on November 2, 2015, EPA gave their concurrence on terminating all future SVE operations. Currently preparing the site closeout Response Action Report for EPA's concurrence.

Regulatory Agency Comments: N/A

**200-UP-1** EPA Lead (RL – Kate Amrhein, CHPRC – Curt Wittreich, PNNL-D. Wellman [I-129])

- Began unattended operations of the uranium extraction and treatment system to treat uranium contaminated groundwater on September 21, 2015, and achieved a total extraction rate of 150 gpm on December 7, 2015, to meet Tri-Party Agreement Milestone M-016-191.
- The iodine-129 hydraulic containment system initiated operations on November 2, 2015, at or above a total injection rate of 150 gpm using three injection wells to meet Tri-Party Agreement Milestone M-016-191.
- Initiated the procurement of well drilling services for the first three of six planned characterization wells for the SE chromium plume and 4 wells for remedy performance monitoring.

**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.

- Status: Completed December 7, 2015

**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.

- Status: Completed on 12/03/2015.

**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.

- Status: On schedule.

Regulatory Agency Comments: N/A

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

- Drilling reached total depth of 428 ft bgs on new monitoring well 299-W5-2 on October 7, 2015. Construction started on October 28, 2015 and completed on November 30, 2015. Development of the well occurred on December 2, 2015. Depth discrete sampling was completed during drilling and all analytical results have been received.
- Drilling of new monitoring well 299-W13-2 is complete at 531 ft bgs. The Ringold Lower Mud (RLM) unit was encountered at 404 ft bgs. The driller continued to drill through the RLM and collect depth discrete samples below the RLM then decommissioned the borehole from the basalt to 410 ft bgs on December 17, 2015. The sump for this monitoring well will be anchored in the RLM. Construction will occur at a later date. Depth discrete sampling during drilling was completed and most of the analytical results have been received.

Regulatory Agency Comments: N/A

**M-016** Dual Agency Lead

- Remediation efforts are on-going to meet the target date T01.
- The major milestone may be impacted by the interim OU milestones statused above.
- RL preparing schedule for proposed milestone P-016-250.

**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

- Status: On schedule.

**M-016-00:** Complete Remedial Actions for all Non-Tank Farms & Non-Canyon OUs, 9/30/2024

- Status: Tentative Agreement signed on 10/26/2015 proposed a due date of TBD. The date will be set by proposed milestone M-016-02 on 6/30/2026.

**P-016-250:** Develop a three year rolling prioritized schedule consistent with site-wide clean-up priorities to implement waste site removal actions per Action Memoranda (DOE/RL-2009-37, DOE/RL-2009-48 and DOE/RL-2009-86), 3/31/2016 and annually thereafter

- Status: Tentative Agreement signed on 10/26/2015

Regulatory Agency Comments: N/A

**M-024** Ecology Lead (RL-Ben Vannah, CHPRC-Dave Capelle)

**M-024-67I:** Initiate Discussion of Well Commitments, 6/1/2016

- Status: On schedule.

**M-024-67-T01:** Conclude Discussion of Well Commitments, 8/1/2016

- Status: On schedule.

**M-024-67:** DOE Shall Complete Construction of all CY2016 Wells Identified in M-24-13-01, 12/31/2016

- Status: Complete pending letter. Final well was accepted 09/14/2015.

**M-024-68:** DOE Shall Complete Construction of all CY2017 Wells and before Identified in M-24-14-01, 12/31/2017

- Status: On schedule.

**M-024-00O:** Complete Well Installations with RCRA/CERCLA Requirements, TBD - In program planning

- Status: On schedule.

Regulatory Agency Comments: N/A

**200 Area RCRA TSD Closures** Ecology Lead (RL – Mostafa Kamal, CHPRC – Bert Day)

**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

- Status: On Schedule. Tentative Agreement signed on 10/26/2015 proposed moving 241 CX Tank System to a separate, newly created milestone P-037-13 due 09/30/2022.

**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

- Status: Tentative Agreement signed on 10/26/15 proposed a due date of 9/30/2021.

**P-037-12:** Complete closure requirements for Non-Radioactive Dangerous Waste Landfill, Solid Waste Landfill, and 400 Area Waste Management Unit Fuel Storage Facility and Interim Storage Area, 9/30/2022

- Status: Tentative Agreement signed on 10/26/15 proposed milestone.

**P-037-13:** Complete unit-specific closure requirements according to the closure plan 241-CX Tank System (241-CX-70/71/72), 9/30/2022

- Status: Tentative Agreement signed on 10/26/15 proposed milestone.

Regulatory Agency Comments: Ecology granted a 180 day extension for the permit modification for 207-A

**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

- Status: Tentative Agreement signed on 10/26/15 proposed a due date of 9/30/2021.

**M-016-200B:** Complete U Plant Canyon (221-U) barrier construction in accordance with the RD/RAWP, 9/30/2021

- Status: Tentative Agreement signed on 10/26/15 proposed a due date of 9/30/2024.

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

- Status: Complete.

**M-085-01:** Submit a Change Package to Establish a Date for Major Milestone M-085-00, 9/30/2022

- Status: On Schedule. Tentative Agreement signed on 10/26/2015 proposed a due date of 06/30/2026.

**P-085-70:** Submit Remedial Investigation/Feasibility Study Work Plan for 200-CB-1 to Ecology. 09/30/2019

- Status: Tentative Agreement signed on 10/26/15 proposed milestone.

**P-085-72:** Submit Removal Action Work Plan for 224-B to Ecology, 09/30/2020

- Status: Tentative Agreement signed on 10/26/15 proposed milestone.

**P-085-74:** Submit engineering evaluation/cost analysis (EE/CA) to Ecology for a non-time-critical removal action to address high priority cleanup for B Plant Canyon in the 200-CB-1 operable unit, 06/30/2018

- Status: Tentative Agreement signed on 10/26/15 proposed milestone.

**P-085-76:** Initiate response actions in accordance with action memorandum for a non-time-critical removal action to address high priority cleanup for B Plant Canyon in the 200-CB-1 operable unit, 09/30/2025

- Status: Tentative Agreement signed on 10/26/15 proposed milestone.

**P-085-80:** Submit Remedial Investigation/Feasibility Study Work Plan for 200-CP-1 to Ecology, 09/30/2020

- Status: Tentative Agreement signed on 10/26/15 proposed milestone.

**P-085-82:** Submit engineering evaluation/cost analysis (EE/CA) to Ecology for a non-time-critical removal action to address high priority cleanup for the PUREX Plant in the 200-CP-1 operable unit, 12/31/2017

- Status: Tentative Agreement signed on 10/26/15 proposed milestone.

**P-085-84:** Initiate response actions in accordance with action memorandum for a non-time-critical removal action to address high priority cleanup for the PUREX Plant in the 200-CP-1 operable unit, 09/30/2025

- Status: Tentative Agreement signed on 10/26/15 proposed milestone.

**P-085-90:** Submit Remedial Investigation/Feasibility Study Work Plan for 200-CR-1 to EPA, 09/30/2021

- Status: Tentative Agreement signed on 10/26/15 proposed milestone.

**P-085-100**: Submit Removal Action Work Plan for 224-T to EPA, 09/30/2020

- Status: Tentative Agreement signed on 10/26/15 proposed milestone.

**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

- Status: In Program Planning.

Regulatory Agency Comments: N/A

## Documents for the Administrative Record

| **Number** (Published Year) | **Title** | **Referencing Document** |
|---|---|---|
| PNNL-11800, 1998 | Composite Analysis for Low-Level Waste Disposal in the 200 Area Plateau of the Hanford Site | referenced in the LLWMA-3 final status groundwater monitoring plan |
| WHC-SD-EN-AP-022, 1990 | Interim-Status Ground-Water Quality Assessment Plan for Waste Management Area 3 of the 200 Areas Low-Level Burial Grounds | referenced in the LLWMA-3 final status groundwater monitoring plan |
| DOE/RL-2008-58, 2015, Draft Rev. 1 | Interim Status Groundwater Monitoring Plan for the 216-A-29 Ditch, Draft Rev. 1 | Cleared Dec. 2015 |
| DOE/RL-2010-93, 2015, Draft Rev. 2 | Interim Status Groundwater Monitoring Plan for the 216-A-36B Plant Crib, Draft Rev. 2 | Cleared Dec. 2015 |
| DOE/RL-2015-23, 2015, Draft Rev. 0 | Remedial Design/Remedial Action Work Plan for the 200-CW-5 200-PW-1 200-PW-3 and 200-PW-6 Operable Units, Draft Rev. 0 | Cleared Dec. 2015 |
| BHI-01367, 2000 | 200-CW-1 Operable Unit Borehole/Test Pit Summary Report, Rev. 0, Bechtel Hanford, Inc., Richland, Washington. | supports the 2015 GW Monitoring Plan updates |
| SGW-59086, 2015, Rev. 0 | Annual Performance Report for the 200-DV-1 Operable Unit Perched Water Extraction, Fiscal Year 2015 | Cleared Dec. 2015 |
| ECF-200ZP1-13-0006, 2013, Rev. 0 | Description of Groundwater Modeling Calculations for the Calendar Year 2012 (CY 2012) 200 Areas Pump-and-Treat Report, Rev. 0 | DOE/RL-2009-115 R2DA |
| DOE/RL-2012-59, 2013, Rev. 0 | Surveillance Groundwater Monitoring on the Hanford Site, Rev. 0 | DOE/RL-2009-115 R2DA |
| SGW-38815, 2009, Rev. 0 | Water-Level Monitoring Plan for the Hanford Site Soil and Groundwater Remediation Project, Rev. 0 | DOE/RL-2009-115 R2DA |
| DOE/RL-2010-78, 2010, Rev. 0 | 200 West Area Groundwater Pump-and-Treat Facility Extraction and Injection Well Maintenance Plan Rev. 0 | DOE/RL-2015-56 R0 |

# Project Managers Meeting – *January 2015 (December Data)*

Hanford's overall Site groundwater monitoring program managed by CHPRC (River Corridor and Central Plateau) coordinates collection of groundwater samples from wells and aquifer tubes, as well as surface water samples from springs. Sample trips are scheduled by target month and prioritized based on project needs. Target sample dates (months) are chosen to minimize the number of sample trips by temporally aligning requests from multiple activities for a single location into a single trip where practical.

## Sample Trip Status by Month Scheduled

For Fiscal Year 2016 Hanford's Site groundwater monitoring program has 2,762 sample trips scheduled for collection. For 2016 (October through December 2015), 940 of 957 sample trips scheduled were collected.

For December 2015 (FY 2016, month three) the program successfully completed 173 of the 174 sample trips scheduled and 9 of the 240 trips scheduled for January 2016. Additionally 1 trip scheduled for Fiscal year 2015 was collected in December which brings the total number of Fiscal Year 2015 trips to be collected to 3,106 of 3,116 scheduled.

The specific wells, aquifer tubes, and springs sampled in the central plateau during December 2015 are listed in Table 1.

## Awaiting Sample Trips

Of the Fiscal Year 2015 and 2016 sample trips scheduled for December 2015 and prior, there are 29 that are awaiting collection. Of these, 3 require maintenance, 3 have access restrictions, 4 are being evaluated for cancelation or rescheduling, 4 are associated with special studies, 1 is awaiting drilling and 14 are awaiting collection at the month end.

Table 2 presents the sample trips for the central plateau that were not successfully completed in December. Sample trips in Table 2 are grouped by fiscal month scheduled and groundwater interest area. This table shows that the number of awaiting trips decreases with time from the schedule date. Reasons for sample trips to be awaiting include well maintenance, weather conditions, access restrictions, and resource limitations.

## Upcoming Sample Trips

Sample trips for the central plateau only, scheduled for collection in January 2016 (and not collected before the target sample month) are listed in Table 3.

## WMA C Tank Farm

WMA C Tank Farm samples for the first quarter of FY-2016 were collected on December 8, 10 and 14 of 2015. WMA C Tank Farm monitoring wells are listed in Table 4.

## Data Access

The sampling results are available in HEIS and can be accessed from the Environmental Dashboard Application which can be accessed from the HLAN at https://ehs.chprc.rl.gov/eda/ or from the internet at https://ehs.hanford.gov/eda/.

**Table 1 Wells, Aquifer Tubes, and Springs in the Central Plateau Successfully Sampled In December 2015**

| 200-BP | 200-PO | 200-UP | 200-ZP |
|---|---|---|---|
| 299-E27-12 | 299-E24-20 | 299-W22-113 | 299-W14-19 |
| 299-E27-13 | 299-E24-22 | 299-W22-115 | 699-49-100C |
| 299-E27-14 | 299-E24-23 | 299-W22-116 | |
| 299-E27-15 | 299-E24-33 | 299-W22-47 | |
| 299-E27-155 | 299-E25-2 | 299-W22-83 | |
| 299-E27-21 | 299-E25-237 | 299-W22-85 | |
| 299-E27-22 | 299-E25-26 | 299-W22-86 | |
| 299-E27-23 | 299-E25-35 | 299-W22-93 | |
| 299-E27-24 | 299-E25-40 | 299-W22-94 | |
| 299-E27-25 | 299-E25-41 | 299-W22-95 | |
| 299-E27-4 | 299-E25-42 | 299-W23-19 | |
| 299-E27-7 | 299-E25-48 | 699-19-88 | |
| 299-E33-334 | 299-E25-93 | 699-33-75 | |
| 299-E33-340 | 299-E25-94 | | |
| 299-E33-343 | 499-S0-7 | | |
| 299-E33-360 | 499-S0-8 | | |
| 299-E33-50 | 499-S1-8J | | |
| | 699-25-34B | | |
| | 699-46-4 | | |
| | 699-S3-25 | | |
| | 84-D | | |
| | 86-M | | |

**Table 2 Fiscal Year 2015 and 2016 Sample Trips in the Central Plateau awaiting at the end of December 2015**

| Quarterly Schedule | GWIA | SAMP_SITE TYPE | SITE_NAME | SCHEDULE DATE | Frequency | Months Remain | Status | Comment |
|---|---|---|---|---|---|---|---|---|
| FY 2015 Q2 | 200-PO | WELL | 699-20-E12O | 1/1/2015 | Annual | 0 | Late | Access Restricted, Review for Cancelation |
| FY 2015 Q4 | 200-BP | WELL | 299-E33-268 | 9/8/2015 | Annual | 8 | | Special Study, Review for Cancelation |
| | 200-ZP | WELL | 299-W14-15 | 8/1/2015 | Quarterly | 0 | Late | Maintenance Required, Review for Cancelation |
| FY 2016 Q1 | 200-BP | WELL | 299-E33-205 | 10/1/2015 | Biannual | 3 | | Access Restricted |
| | | WELL | 299-E33-344 | 11/1/2015 | Quarterly | 1 | | |
| | | WELL | 299-E33-361 | 11/1/2015 | Annual | 10 | | |
| | 200-UP | WELL | 299-E11-1 | 10/2/2015 | Annual | 9 | | Special Study |
| | | WELL | 299-E20-1 | 10/2/2015 | Annual | 9 | | Special Study |
| | | WELL | 299-E20-2 | 10/2/2015 | Annual | 9 | | Special Study |

**Table 3 Groundwater Sampling Locations in the Central Plateau Scheduled to be sampled in January 2015**

| 200-BP | 200-PO | 200-UP | 200-ZP |
|---|---|---|---|
| 299-E26-14 | 299-E17-14 | 299-W18-21 | 299-W15-152 |
| 299-E26-15 | 299-E17-16 | 299-W18-22 | 299-W15-17 |
| 299-E26-77 | 299-E17-18 | 299-W18-40 | 299-W15-224 |
| 299-E26-79 | 299-E17-19 | 299-W19-44 | 299-W15-30 |
| 299-E28-26 | 299-E17-22 | 299-W19-45 | 299-W15-83 |
| 299-E28-27 | 299-E17-23 | 299-W19-47 | 299-W15-94 |
| 299-E28-28 | 299-E17-25 | 699-19-88 | 299-W6-11 |
| 299-E32-10 | 299-E17-26 | 699-38-68A | 299-W6-12 |
| 299-E32-2 | 299-E18-1 | 699-40-62 | 299-W6-6 |
| 299-E32-3 | 299-E23-1 | | 299-W7-3 |
| 299-E32-4 | 299-E24-18 | | 299-W8-1 |
| 299-E32-5 | 299-E24-21 | | 699-48-71 |
| 299-E32-6 | 299-E24-24 | | 699-48-77C |
| 299-E32-7 | 299-E25-17 | | 699-48-77D |
| 299-E32-8 | 299-E25-19 | | 699-49-100C |
| 299-E32-9 | 299-E25-20 | | 699-49-79 |
| 299-E33-14 | 299-E25-47 | | 699-51-75 |
| 299-E33-265 | 299-E26-4 | | 699-51-75P |
| 299-E33-266 | 699-14-38 | | |
| 299-E33-28 | 699-17-5 | | |
| 299-E33-29 | 699-19-43 | | |
| 299-E33-30 | 699-20-20 | | |
| 299-E33-34 | 699-20-E12O | | |
| 299-E33-35 | 699-20-E12S | | |
| 299-E33-40 | 699-20-E5A | | |
| 699-42-40A | 699-21-6 | | |
| 699-43-41G | 699-22-35 | | |
| 699-44-39B | 699-2-3 | | |
| 699-45-42 | 699-23-34B | | |
| 699-50-28B | 699-24-1P | | |
| | 699-24-33 | | |
| | 699-24-34A | | |
| | 699-24-34B | | |
| | 699-24-34D | | |
| | 699-24-34E | | |
| | 699-24-35 | | |
| | 699-24-36 | | |
| | 699-25-34E | | |

| 200-BP | 200-PO | 200-UP | 200-ZP |
|---|---|---|---|
| | 699-26-15A | | |
| | 699-26-33 | | |
| | 699-26-33A | | |
| | 699-26-35A | | |
| | 699-28-40 | | |
| | 699-29-4 | | |
| | 699-31-11 | | |
| | 699-31-31 | | |
| | 699-32-22B | | |
| | 699-32-43 | | |
| | 699-33-56 | | |
| | 699-34-41B | | |
| | 699-34-42 | | |
| | 699-35-9 | | |
| | 699-37-43 | | |
| | 699-37-E4 | | |
| | 699-38-15 | | |
| | 699-40-1 | | |
| | 699-40-33A | | |
| | 699-40-36 | | |
| | 699-41-1A | | |
| | 699-41-40 | | |
| | 699-42-12A | | |
| | 699-42-39A | | |
| | 699-42-39B | | |
| | 699-42-42B | | |
| | 699-43-3 | | |
| | 699-43-44 | | |
| | 699-43-45 | | |
| | 699-46-4 | | |
| | 699-47-5 | | |
| | 699-48-7A | | |
| | 699-49-13E | | |

**Table 4. WMA C Quarterly Monitoring Wells**

| SITE_NAME |
|---|
| 299-E27-12 |
| 299-E27-13 |
| 299-E27-14 |
| 299-E27-15 |
| 299-E27-155 |
| 299-E27-21 |
| 299-E27-22 |
| 299-E27-23 |
| 299-E27-24 |
| 299-E27-25 |
| 299-E27-4 |
| 299-E27-7 |