

DISTRIBUTION
PROJECT MANAGERS' MEETING,
200 AREA GROUNDWATER and SOURCE OPERABLE UNITS
September 17, 2015

DOE/RL

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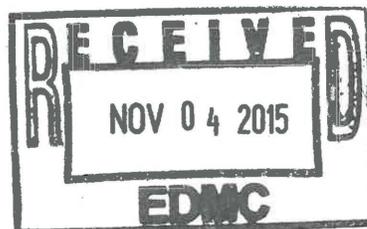
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Administrative Record (2)

H6-08

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Meeting Minutes Transmittal/Approval
Project Managers' Meeting
200 Area Groundwater and Source Operable Units
September 17, 2015

APPROVAL:  DATE: 9/17/2015
Mike Cline, 200 Area Unit Manager, DOE/RL

APPROVAL:  DATE: 17 September 2015
Al Farabee, 200 Area Project Manager, DOE/RL

APPROVAL:  DATE: 9 / 17 / 2015
Emerald Lalja, 200 Area Project Manager, EPA

APPROVAL:  DATE: 9/18/15
Nina Menard, 200 Area Project Manager, Ecology
TM, 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.

Minutes of the 200 Area Project Managers' Meeting of September 17, 2015 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	2015 Annual Sitewide Institutional Control Assessment CH2M Hill Plateau Remediation Company
Attachment 6	Document for the Administrative Record
Attachment 7	Groundwater Monitoring Report – September 2015 (August 2015 Data)
Attachment 8	200PMM Meeting Minutes Reformatting EXAMPLE

**200 Area Project Managers' Meeting
Agreements and Issues List
September 17, 2015**

Agreement: None

Issue: None

Announcements: None

Delegations for September 17, 2015 PMM meeting:

DOE/RL Mike Collins for Al Farabee

**200 Area Project Managers' Meeting
September 17, 2015**

CHPRC-1503264
Attachment 3

OPEN ACTION ITEM TRACKING

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status
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	3/19/2015	Closed until milestone realignment.
162	Daily DV-1 drilling report to be sent to D. Goswami	CHPRC/M. Doombos	Ecology/D. Goswami	7/16/15	7/20/15		Closed.
163	Review Waste Management Plans with respect to IDW strategy for specificity and consistency.	CHPRC/M. Doornbos	EPA	7/16/15	9/17/15		Closed.
164	Add Groundwater Monitoring and AR documents for September meeting minutes	CHPRC/J. Borghese	PMs	7/16/15	9/17/15		Closed.
165	EPA requests status of REDOX roof.	RL/ Mike Collins	EPA	9/17/15	11/19/15		
166	Add Action Items to Agenda	CHPRC/J. Borghese	All	9/17/15	11/19/15		

200 AREA PROJECT MANAGERS' MEETING
Milestones and Operational Status by OU
September 17, 2015

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.**
 - Ecology comments on the Draft A RFI/CMS & RI/FS WP were received on June 24, 2015. These comments are currently in the process of being addressed.
 - Requested a 90 day extension, on July 30, 2015, to deliver the Draft Rev. 0 RI/FS work plan due to unresolved comments on the Central Plateau Inner Area Principles and Parameters. The new proposed delivery date is November 15, 2015.

Milestone Status: Complete

- **Perched Water Removal Action Work Plan**
 - The Draft A removal action work plan (DOE/RL-2014-37) and supporting Sampling and Analysis Plan (DOE/RL-2014-51) are with Ecology for review. Ecology requested an extension to September 18, 2015.
 - The B Area perched water extraction system removed 4,269 gallons in August, bringing the total volume of perched water removed to 301,156 gallons since initiating operations on August 30, 2011. The system was shut down on August 20, 2015, for construction of two new perched water removal wells and retrofit of the existing well. The following quantities of contaminants were removed:

200-DV-1 Perched Water	Current Month	Cumulative
Gallons	4,269	301,156
Tc-99	5.7 E-04 Ci	36.2 E-03 Ci
Uranium	1.23 kilograms	68.4 kilograms
Nitrates	8.7 kilograms	578.6 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 Draft A RI/FS 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.
 - Direct-push technology was unsuccessful at reaching total depth, and as a result the current drilling contract has been modified to allow the use of hydraulic hammer and sonic drilling technologies. Drillers have been given limited notice to proceed, allowing them to begin training, medical, and constructing cone needed for hydraulic hammer method.

Milestone Status: To be missed. TPA negotiations underway to adjust the milestone date.

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 agreed to extend the dispute at the project manager's level to December 31, 2015.*
 - *Informally transmitted Draft Change Packages C-13-01 and C-14-02 to Ecology on September 16, 2014, noting that C-13-01 included a memo 'Assessment of the Regulatory Pathway to the 200-IS-1 Operable Unit Waste Sites'. The two change packages are undergoing Ecology attorney and RL attorney review regarding TSD designations.*
 - *Conducted the following workshops and discussions with Ecology:*
 - *June 24, 2015: RL and Ecology Status meeting.*
 - *July 21, 2015: RL and Ecology team meeting.*
 - *August 27, 2015: RL and Ecology team meeting.*

Milestone Status: Dispute resolution. The parties are currently working on identifying the Work Plan scope (e.g., change packages C-13-01 and C-14-02), TSD identification, 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 or FY15 based on site priorities.*

Milestone Status: To be missed. TPA negotiations underway to adjust the milestone date.

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 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 under negotiations (see M-015-92A discussion).*

Milestone Status: At Risk. TPA negotiations underway to adjust the milestone date.

Regulatory Agency Comments: N/A

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

- **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**
 - *Received Ecology comments (15-NWP-091) on Draft B RFI/CMS/RI/FS work plan on May 26, 2015 (on schedule).*
 - *Conducted Draft B RFI/CMS/RI/FS work plan Ecology comment resolution meeting on June 17, 2015.*

- Requested document update delay due to integration with the Principles and Parameters (extension granted to October 22, 2015).

Milestone Status: Complete

- **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 200-SW-2 work plan approval.*

Milestone Status: At risk. TPA negotiations underway to adjust the milestone date.

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.**

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

Regulatory Agency Comments: N/A

200-BC-1 and 200-WA-1 EPA Lead (RL- John Sands, CHPRC – Mark Byrnes)

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**
 - *Preparing Draft B RI/FS Work Plan.*
 - *Completed revisions to TPA Appendix C concerning the list of waste sites assigned to 200-WA-1.*

Schedule Status: Draft B RI/FS work plan is planned for submittal to the EPA September 30, 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**
 - *No action until RI/FS work plan is approved.*

Milestone Status: To be missed. TPA negotiations underway to adjust the milestone date.

Regulatory Agency Comments: N/A

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

- **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**
 - *No action.*

Milestone Status: On schedule. The milestone was revised per TPA Change Request M-15-14-01 to provide a schedule for transmittal of the Outer Area FS Report and revised PP(s) by October 30, 2015.

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 is planned for September 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. Continued installation of the 200-BP-5 pipeline to the 200 West P&T Facility. As of August month-end, completed approximately 41,000 ft out of 48,000 ft of the 200-BP-5 pipeline.*

Schedule Status: Treatability test scheduled to start in September 2015.

- **M-015-21A: Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology, 6/30/2015**
 - *The 200-BP-5 Draft A RI report and 200-PO-1 Draft A RI Report Addendum were formally transmitted to Ecology on August 11, 2015, for review. The 200-BP-5 and 200-PO-1 FS Report and PP are planned to be delivered to the regulators by September 30, 2016.*

Milestone Status: To be missed. TPA negotiations underway to adjust the milestone date.

Regulatory Agency Comments: N/A

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- Robert Long, 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**
 - *Draft A RD/RAWP is under preparation.*

Milestone Status: On schedule.

Regulatory Agency Comments: N/A

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

- FY2015 rebound sampling was completed in early June 2015. The rebound study results show carbon tetrachloride concentrations remaining below 100 ppmv in all SVE wells, and in all but two SVE probes.
- A presentation was made to EPA on August 27, 2015 summarizing the conclusions from DOE/RL-2014-48, Draft A, "Endpoint Evaluation for the 200-PW-1 Operable Unit Soil Vapor Extraction Operations". A request was made for EPA concurrence to permanently terminate all future SVE operations since RAOs have been met. EPA requested the 2008 DNAPL investigation report be looked at again to determine if there is reference to a data gap to the south. If this final issue can be resolved, a final remediation report can be prepared to closeout future SVE operations.

Regulatory Agency Comments: EPA expects information to address the data gap in the next 1-2 weeks.

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, 12/29/2015**
 - Completed installation of all major pieces of the uranium extraction system (e.g., extraction wells, pipelines, treatment train, inlet tank, pumps and filters). Final system hookup and testing is underway.
 - Completed drilling three I-129 hydraulic containment system injection wells. Well completion activities for 1 of 3 wells were completed.

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**
 - Completed installation of all major pieces of the uranium extraction system (e.g., wells, pipelines, treatment train, inlet tank, pumps and filters). Final system hookup and testing is underway. Operational acceptance testing for the uranium system is planned to be initiated in August 2015 followed by operational acceptance testing the I-129 hydraulic containment system in late 2015.

Milestone Status: On schedule. Startup of U Plant area P&T for uranium and Tc-99 is planned in FY2015.

- **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 EPA Lead (RL – John Morse, PNNL-Wellman)**
 - 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 EPA Lead (RL – John Morse, CHPRC – Doornbos)**
 - Planning three remedial design investigation wells for FY2016.

Milestone Status: On schedule.

Regulatory Agency Comments: N/A

200-ZP-1, 200 West Pump-and-Treat Facility EPA Lead (RL – John Morse, CHPRC – Byrnes/Barrett)

- Achieved an average pumping rate of approximately 2,024 in July and 1,869 in August. The lower flows in August are attributed to planned shutdowns to support the uranium ion exchange system installation.
- Maintained effluent concentrations below cleanup levels specified in ROD.
- Completed drilling and sampling of extraction wells YE-13 (299-W11-97) and YE-11 (299-W19-111) in July and August respectively. Construction of both wells is ongoing.

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. TPA negotiations underway to adjust the milestone date.

Regulatory Agency Comments: N/A

M-024 Milestone Series/Well Drilling Ecology Lead (RL-John Sands, CHPRC-Dave Capelle)

- **M-024-58H: Initiate Discussions of Well Commitments, 6/01/2015 – Complete.**
- **M-024-66-T01: Conclude Discussions of Well Commitments, 8/01/2015 – Complete.**
- **M-024-66: DOE Shall Complete Construction of all Wells Identified in M-24-12-01, 12/31/2015 – On schedule**
- **M-024-000: 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 – Patrick Baynes)

- **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**
 - Closure plans in NOD process.
 - Issues were elevated to Ecology AGs 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 closure plan and other documentation necessary to close the 207-A South Retention Basin within FY2015 to Ecology.

Milestone Status: Complete; closure plans undergoing NOD process.

- **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. TPA negotiations underway to adjust the milestone date.

- **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**
 - The permit modification request (PMR) for closure of the 207-A South Retention Basin Treatment, Storage, and Disposal Unit, the 207-A South Retention Basin Closure Plan, the 207-A South Retention Basin Temporary Authorization Request, and the State Environmental Policy Act Environmental Checklist for the Hanford Facility 207-A South Retention Basin (S-2-7), Revision 0 have been provided to Ecology.

Milestone Status: On schedule. TPA negotiations underway to adjust the milestone date.

Regulatory Agency Comments: Temporary authorization for 207-A issued by Ecology on July 24, 2015.

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-IS-1 OU interim milestones stated above.

Milestone Status: At risk. TPA negotiations underway to adjust the milestone date.

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**
 - *Milestone under negotiation.*

Milestone Status: On Schedule

- **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: In Program Planning

Regulatory Agency Comments: N/A

CENTRAL PLATEAU 2015 ANNUAL INSTITUTIONAL CONTROLS ASSESSMENT



200 Project Managers Meeting

September 17, 2015



Central Plateau Records of Decision

- 200-ZP-1 Groundwater Operable Unit ROD
- 200-UP-1 Groundwater Operable Unit Interim ROD
- 221-U Facility (Canyon Disposition Initiative)

Institutional Controls Associated with Records of Decision

- Entry Restrictions
- Warning Notices
- Groundwater-Use Management
- Land-Use Management
- Miscellaneous Provision

Institutional Controls Associated with Records of Decision



Beloit and 23rd Street



Institutional Controls Associated with Records of Decision

Camden and 23rd Street



Institutional Controls Associated with Records of Decision

East of 200 West P&T



Institutional Controls Associated with Records of Decision

Southwest of 221-U Plant



Documents for the Administrative Record

Number (Published Year)	Title	Referencing Document
WHC-SD-EN-EV-0021 (1990)	Interim Hydrogeologic Characterization Report for the 216-B-3 Pond, Westinghouse Hanford Company, Richland, Washington.	supporting the 2015 RCRA groundwater monitoring plan updates
RHORE-EV-46-P (1984)	The 216 Z 8 French Drain Characterization Study, Rockwell Hanford Operations, Richland, Washington	DOE/RL-2015-23
RHO-ST-21 (1978)	Report On Plutonium Mining Activities At 216-Z-9 Enclosed Trench, Rockwell Hanford Operations, Richland, Washington	DOE/RL-2015-23
ECF-Hanford-13-0030 (2015)	Initial Groundwater Plume Development to Support Fate and Transport Modeling for Remedial Investigation/Feasibility Studies of the 200-BP-5 and 200-PO-1 Groundwater Operable Units, Rev. 0	DOE/RL-2009-85 ADDA DA
ECF-Hanford-13-0031 (2015)	Fate and Transport Modeling for Baseline Conditions for Remedial Investigation/Feasibility Studies of the 200-BP-5 and 200-PO-1 Groundwater Operable Units, Rev. 0	DOE/RL-2009-85 ADDA DA
ECF-Hanford-13-0035 (2015)	Tap Water Risk Assessment for Remedial Investigation/Feasibility Studies of the 200-BP-5 and 200-PO-1 Groundwater Operable Units, Rev. 0	DOE/RL-2009-85 ADDA DA
ECF-Hanford-13-0037 (2015)	Development of Source Terms for Inclusion in Fate and Transport Modeling for Remedial Investigation/Feasibility Studies of the 200-BP-5 and 200-PO-1 Groundwater Operable Units, Rev. 0	DOE/RL-2009-85 ADDA DA
DOE/RL-2009-124 REV.4	200 West Pump and Treat Operations and Maintenance Plan	
DOE/RL-2014-48 (2015)	Endpoint Evaluation for the 200-PW-1 Operable Unit Soil Vapor Extraction System Operations, Draft A	
BHI-01367 (2000)	200-CW-1 Operable Unit Borehole/Test Pit Summary Report, Rev. 0	supporting the 2015 RCRA groundwater monitoring plan updates
PNL-5856 (1987)	40 CFR 265 Interim Status Detection-Level Groundwater Monitoring Compliance Plan for 216-A-29 Ditch,	supporting the 2015 RCRA groundwater monitoring plan updates
WHC-SD-EN-AP-042 (1991)	Phase I Characterization of the 216-B-3 Pond System	supporting the 2015 RCRA groundwater monitoring plan updates
DOE/RL-2015-14, R0 (2015)	Performance Monitoring Report for the 200-UP-1 Groundwater Operable Unit Remedial Action	
DOE/RL-2015-22, DA (2015)	Sampling and Analysis Plan for the 200-CW-5, 200-PW-1, and 200-PW-6 Operable Units	

Number (Published Year)	Title	Referencing Document
DOE/RL-2015-46, R0 (2015)	Waste Control Plan for the 200-WA-1 Uranium Sequestration Pilot Test	
DOE/RI-2009-124, R4 (2015)	200 West Pump and Treat Operations and Maintenance Plan	
DOE/RL-2015-06, R0 (2015)	Calendar year 2014 Annual Summary Report for the 200-ZP-1 and 200-UP-1 Operable Unit Pump and Treat Operations, REV. 0	

Project Managers Meeting – September 2015 *(August 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 2015 Hanford's overall Site groundwater monitoring program has 3,057 sample trips scheduled for collection. We have successfully completed 2,662 of 2,703 sample trips scheduled for October 2014 through August 2015. Through August 2015 (FY15, month eleven) the program successfully completed 178 of the 188 groundwater sampling trips scheduled for August 2015 and 59 trips scheduled for September which were collected in August ahead of schedule. This brings the total number of FY 2015 trips to be collected to 2,721.

The specific wells, aquifer tubes, and springs sampled in the river corridor areas during August 2015 are listed in Table 1.

Sample Trip Status by Month Collected

During August 2015, 249 sample trips were successfully collected. This includes the 27 trips scheduled for October 2014 through July 2015, 163 trips scheduled for August, and 59 trips scheduled for September. This brings the total number of trips sampled during October 2014 through August 2015 to 2,703. Additionally 18 trips scheduled for October 2014 were sampled in September which brings the total number of FY 2015 trips to 2,721.

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

Awaiting Sample Trips

Of the Fiscal Year 2015 sample trips scheduled for August 2015 and prior, there are 42 that are awaiting collection. Of these, 1 has been decommissioned, 2 P&T wells were not running, 9 require maintenance, 8 have access restrictions, 3 are not on the Well Access List, 3 are being evaluated for cancelation or rescheduling, and 16 are awaiting collection at the month end.

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

Upcoming Sample Trips

Sample trips for the central plateau only scheduled for collection in September 2015 (and not collected before the target sample month) are listed in Table 3.

WMA C Tank Farm

WMA C Tank Farm samples for the fourth quarter of FY-2015 are scheduled to be collected in September 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.ri.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 August 2015

200-BP	200-PO	200-UP	200-ZP
199-K-183	299-E25-29P	299-W14-71	299-W10-26
299-E28-17	299-E25-37	299-W18-260	299-W10-27
299-E28-25	299-E25-44	299-W19-101	299-W11-40
299-E33-15		299-W19-39	299-W11-41
299-E33-16		299-W19-41	299-W11-42
299-E33-20		299-W19-43	299-W11-47
299-E33-31		299-W19-48	299-W14-13
299-E33-32		699-36-61A	299-W14-18
299-E33-334		699-38-65	299-W15-765
299-E33-335			699-48-77C
299-E33-337			699-48-77D
299-E33-338			
299-E33-339			
299-E33-344			
299-E33-38			
299-E33-39			
299-E33-41			
299-E33-42			
299-E33-43			
299-E33-44			
299-E33-47			
299-E33-48			
299-E33-49			
299-E33-7			
699-54-48			

Table 2 Fiscal Year 2015 Sample Trips in the Central Plateau awaiting at the end of August 2015

Quarter Scheduled	GWIA	Sample Sites/Types	Site Name	Schedule Date	Frequency	Months Remain	Status	Comment
FY 2015 Q1	200-BP	WELL	299-E33-205	10/1/2014	Biannual	0	Late	Review for Cancellation, Access Restrictred, Not on WAL
FY 2015 Q2	200-PO	WELL	699-20-E120	1/1/2015	Annual	4	OK	Access Restricted
		WELL	699-46-4	1/1/2015	Annual	4	OK	Access Restricted
	200-ZP	WELL	299-W14-18	2/1/2015	Quarterly	0	Late	Unsuccessful 2-10-2015, Review for cancelation
FY 2015 Q3	200-BP	WELL	299-E33-205	4/1/2015	Biannual	1	OK	Access Restrictred, Not on WAL
		WELL	699-49-55A	4/1/2015	Annual	7	OK	Access Restricted
		WELL	699-52-55	4/1/2015	Annual	7	OK	Review for cancelation
	200-PO	WELL	299-E25-237	6/1/2015	Quarterly	0	Late	Maintenance Required
	200-ZP	WELL	299-W14-15	5/1/2015	Quarterly	0	Late	Unsuccessful 5-11-2015, Maintenance required
		WELL	299-W14-18	5/1/2015	Quarterly	0	Late	Maintenance Required
		WELL	699-51-75	5/1/2015	Biannual	2	OK	Access Restrictred
FY 2015 Q4	200-PO	WELL	299-E25-47	7/1/2015	Biannual	4	OK	Maintenance Required
	200-UP	WELL	299-W19-105	8/1/2015	Biannual	5	OK	
		WELL	299-W19-46	8/1/2015	Biannual	5	OK	
		WELL	299-W19-49	8/1/2015	Biannual	5	OK	
		WELL	699-19-88	7/1/2015	Quarterly	1	OK	
	200-ZP	WELL	299-W11-33Q	8/1/2015	Biannual	5	OK	
		WELL	299-W14-15	8/1/2015	Quarterly	2	OK	
		WELL	699-49-100C	7/1/2015	Quarterly	1	OK	

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

200 AREA PROJECT MANAGERS' MEETING

Milestones and Operational Status by OU

September 17, 2015

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

- Ecology comments on the Draft A RFI/CMS & RI/FS WP were received on June 24, 2015. These comments are currently in the process of being addressed.
- Requested a 90 day extension, on July 30, 2015, to deliver the Draft Rev. 0 RI/FS work plan due to unresolved comments on the Central Plateau Inner Area Principles and Parameters. The new proposed delivery date is November 15, 2015.
- The Draft A removal action work plan (DOE/RL-2014-37) and supporting Sampling and Analysis Plan (DOE/RL-2014-51) are with Ecology for review. Ecology requested an extension to September 18, 2015.
- The B Area perched water extraction system removed 4,269 gallons in August, bringing the total volume of perched water removed to 301,156 gallons since initiating operations on August 30, 2011. The system was shut down on August 20, 2015, for construction of two new perched water removal wells and retrofit of the existing well. The following quantities of contaminants were removed:

200-DV-1 Perched Water	Current Month	Cumulative
Gallons	4,269	301,156
Tc-99	5.7 E-04 Ci	36.2 E-03 Ci
Uranium	1.23 kilograms	68.4 kilograms
Nitrates	8.7 kilograms	578.6 kilograms

- Direct-push technology was unsuccessful at reaching total depth, and as a result the current drilling contract has been modified to allow the use of hydraulic hammer and sonic drilling technologies. Drillers have been given limited notice to proceed, allowing them to begin training, medical, and constructing cone needed for hydraulic hammer method.

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

Milestone Status: To be missed. TPA negotiations underway to adjust the milestone date.

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

- On December 10, 2013, TPA dispute resolution for M-015-112 was invoked and an extension to resolve issues at the project manager level was requested. Ecology agreed to extend the dispute at the project manager's level to September 30, 2015.
- Informally transmitted Draft Change Packages C-13-01 and C-14-02 to Ecology on September 16, 2014, noting that C-13-01 included a memo 'Assessment of the Regulatory Pathway to the 200-IS-1 Operable Unit Waste Sites'. The two change packages are undergoing Ecology attorney and RL attorney review regarding TSD designations.
- Conducted the following workshops and discussions with Ecology:
 - June 24, 2015: RL and Ecology Status meeting.
 - July 21, 2015: RL and Ecology team meeting.
 - August 27, 2015: RL and Ecology team meeting.

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.

Milestone Status: Dispute resolution. The parties are currently working on identifying the Work Plan scope (e.g., change packages C-13-01 and C-14-02), TSD identification, and associated revised delivery schedule.

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

Milestone Status: To be missed. TPA negotiations underway to adjust the milestone date.

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

Milestone Status: At Risk. TPA negotiations underway to adjust the milestone date.

Regulatory Agency Comments: