

**DISTRIBUTION
PROJECT MANAGERS MEETING,
200 AREA GROUNDWATER and SOURCE OPERABLE UNITS
May 17, 2018**

DOE/RL

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200 AREA PROJECT MANAGERS MEETING

May 17, 2018

Minutes of the 200 Area Project Managers' Meeting of May 17, 2018 are attached. Minutes are comprised of the following:

Attachment 1	Agenda
Attachment 2	Attendees Sign In Sheets
Attachment 3	Signature Page
Attachment 4	Milestones and Operations, March - April 2018 Data
Attachment 5	Action Items List

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200 AREA PROJECT MANAGERS MEETING AGENDA May 17, 2018

Operational Status and Milestones by OU- January and February Data

- Deep Vadose Zone
- 200-IS-1 and 200-EA-1
- 200-SW-2
- 200-SW-1
- 200-OA-1, 200-CW-1, 200-CW-3
- 200-BC-1 and 200-WA-1
- 200-BP-5 and 200-PO-1
- M-015 Milestone Series
- 200-PW-1/3/6 and 200-CW-5
- 200-UP-1
- 200-ZP-1
- 200 Area Groundwater/200 West P&T Facility
- M-016 Milestone Series
- M-024 Milestone Series
- 200 Area RCRA TSD Closures
- Canyon Facilities
- Waste Site Removal
- Documents for the Administrative Record

Action Items

Approved TPA Change Notices- None to report

Closing Comments (all)

- Sign concurrence to meeting minutes if applicable
- The 2018 PMM will be held in 2420 Stevens from 3:00-4:00pm as follows:
 - May 17 Room 308
 - July 19 Room 308
 - September 20 Room 308
 - November 15 Room 308

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**Meeting Minutes Transmittal/Approval
Project Managers' Meeting
200 Area Groundwater and Source Operable Units
May 17, 2018**

APPROVAL:  DATE: 5/17/2018
Michael Cline, 200 Area Unit Manager, DOE/RL

APPROVAL:  DATE: 5/17/2018
Al Farabee, 200 Area Project Manager, DOE/RL

APPROVAL:  DATE: 5/17/2018
Craig Cameron, 200 Area Project Manager, EPA

APPROVAL:  DATE: 5/17/18
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.

200 AREA PROJECT MANAGERS' MEETING
Milestones and Operations – March-April 2018 Status by OU
May 17, 2018

200-DV-1 Ecology Lead (RL –Jim Hanson, CHPRC – Mark Byrnes)

- The drilling of the remaining 6 shallow boreholes resumed March 12, 2018, and completed March 13, 2018. This completes all characterization activities for the 200-DV-1 OU.
- Significant progress continues on the preparation of a Treatability Test Evaluation Report that summarizes the results from historical treatability tests and screens other technologies that may be applicable for remediation of the deep vadose zone.
- Two 200-DV-1 Workbook briefings have taken place with EPA and Ecology during March and April, 2018, that have been well received. The content of the briefings included a review of the Remedial Investigation/Feasibility Study (RI/FS) Work Plan commitments, baseline conceptual site model uncertainties, as well as the sampling performed per the Sampling and Analysis Plan and B-Complex characterization results.
- Work continues on preparation of the Field Summary Reports for B-, S- and T-Complex.
- There were a total of 77,000 gallons pumped from the perched water wells YE-28, YE-29 and YE-30 during the months of March and April 2018.

Perched well	March 2018 (gallons)	April 2018 (gallons)
YE-28	3,000	3,000
YE-29	26,000	25,000
YE-30	11,000	9,000

Regulatory Agency Comments:**Deep Vadose Zone Treatability Studies** EPA Lead (RL –Jim Hanson, CHPRC – Dave St John)

- Layup field activities began March 19, 2018, for the Uranium Reactive Gas Sequestration (URGS) Treatability Test. Injection activities are projected to resume in FY 2019.
- Meeting planned for May 16, 2018 with EPA and Ecology to discuss current status of the laboratory studies being performed on the U-8 Crib samples.

Regulatory Agency Comments:**200-IS-1** Ecology Lead (RL- Doug Hildebrand, CHPRC – Mike Hickey)

- No work planned for FY2018.

M-015-112: Submit Draft B, 200-IS-1 OU Pipeline System Waste Sites RFI/CMS/RI/FS work plan to Ecology, including a schedule of completion dates for major tasks and deliverables, 11/30/2020.

- Status: on schedule, plan to begin in FY19.

Regulatory Agency Comments:**200-EA-1** Ecology Lead (RL- Ben Vannah, CHPRC – Mike Hickey)

- Continued progress is being made on preparation of the RI/FS Work Plan.
 - Addressed all Ecology informal comments on Chapter 3 of RI/FS Work Plan on April 19, 2018
 - Addressed all Ecology informal comments on chapters 4 and 5 on April 19, 2018
 - Addressed all Ecology informal comments on Appendix A (SAP) on April 20, 2018.
 - Addressed informal comment from Ecology on Appendix E (ARARs) on April 19, 2018.
 - Resolved Ecology's comments on Chapter 1.
- Continuing discussions with Ecology to determine the most appropriate path forward to document the Tri-Party agreement on Principles and Parameters (considerations included using the *IAMIT Decision/Determination/Action Statement* form).

M-015-92A: Submit a RFI/CMS & RI/FS work plan for the 200-EA-1 OU (200 East Inner Area) to Ecology, 7/31/2018

- Status: on schedule.

Regulatory Agency Comments:

200-SW-2 Ecology Lead (RL- Doug Hildebrand, CHPRC – Mike Hickey)

- No actions planned in FY2018 due to funding.

M-015-93C: Initiate characterization field work for the 200-SW-2 Operable Unit landfills in accordance with the schedule in the approved RI/FS/RFI/CMS Work Plan.

- Status: at risk, not funded in FY2018. A TPA Change Package is being prepared to adjust the milestone.

Regulatory Agency Comments:

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

- No work planned for FY2018.

Regulatory Agency Comments:

200-OA-1 (Outer Area), 200-CW-1, and 200-CW-3 EPA Lead (RL- Jim Hanson, CHPRC – Mike Hickey)

- No work planned for FY2018.

Regulatory Agency Comments:

200-BC-1 and 200-WA-1 EPA Lead (RL- Joe Axtell, CHPRC – Mike Hickey)

- Reviewing optimized target analyte list for the 200-BC-1/200-WA-1 SAP and incorporate 200-DV-1 lessons learned.
- Preparing Draft TPA Change Notice for SAP modifications based on target analyte changes.

Regulatory Agency Comments:

200-BP-5 and 200-PO-1 Ecology Lead (RL – James Hanson, CHPRC – Curt Wittreich)

- Refined the 200-BP-5 and 200-PO-1 Interim Record of Decision (IROD) strategy with Ecology and EPA, and initiated preparation of the IROD feasibility study. Completed a briefing with Ecology on April 11, 2018, to review the annotated outline for the FS.
- Completed several comment resolution meetings with Ecology on the 200-BP-5 RI and 200-PO-1 RI Addendum. Provided redlined RI documents, incorporating Ecology comment dispositions, to Ecology for review.
- Completed a Decisional Draft 200-BP-5 removal action drilling sampling and analysis plan (SAP). A Draft A SAP is expected to be delivered to the Ecology and EPA for review by the end of May.
- Completed briefing Ecology and EPA on the work scope for the Central Plateau Tracer Study on April 9, 2018.
- Issued the Rev 0 200-BP-5 Removal Action Work Plan.

M-015-21A: Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology, 3/31/2019.

- Status: On schedule.

Regulatory Agency Comments:

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

- RL anticipates completing acquisition process in accordance with the Remedial Design/Remedial Action (RD/RA) Work Plan.

Regulatory Agency Comments:

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

- Completed the first of two remedy performance monitoring wells scheduled for 2018.

- o Continued preparation of the remedial design investigation report that incorporates the data from the southeast chromium wells.

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, 9/30/2018.

- o Status: on schedule.

Regulatory Agency Comments:

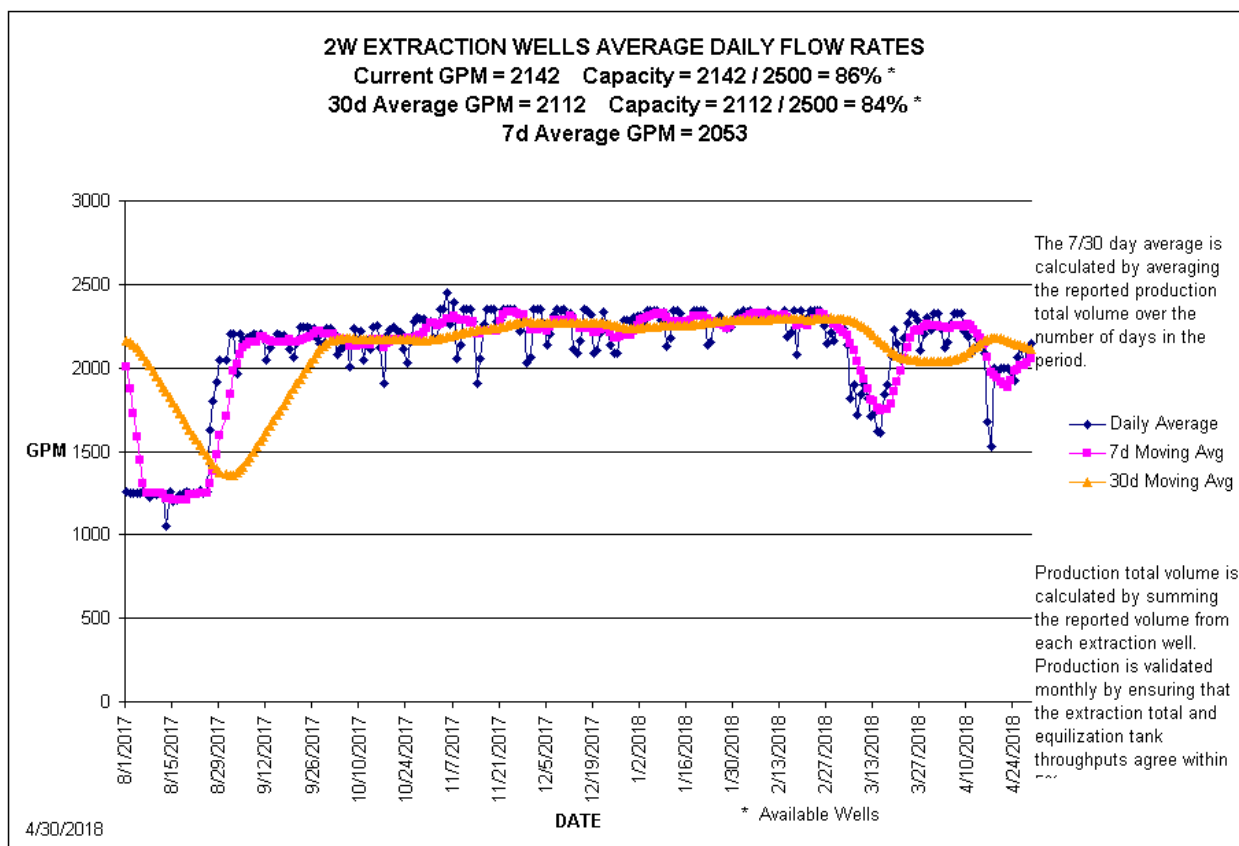
200-ZP-1 EPA Lead (RL – Kate Amrhein, CHPRC – Mark Byrnes)

- o Awarded the drilling contract February 15, 2018, to drill two new injection wells (YJ-33 and YJ-34). Drilling began April 17, 2018, at YJ-34/C9880 and has reached 135 ft. bgs April 19, 2018.
- o Continued with updates to 200-ZP-1 RD/RAWP, 200-ZP-1 O&M Plan, and 200-ZP-1 Performance Monitoring Plan. These documents are being updated based upon the first five years of operation and anticipated treatment needs for the Central Plateau.
- o Held a briefing with EPA and Ecology March 29, 2018, to open discussions on the treatment of Modular Storage Unit (MSU) water at the 200 West Pump and Treat Facility. A pilot test plan was approved May 4, 2018, to allow up to 2 Million gallons of MSU water to be treated at the 200 West Pump and Treatment Facility this fiscal year.

Regulatory Agency Comments:

200 Area Groundwater/200 West P&T Facility

- o Treated 671.5 M gallons of water in **FY2018** as of the end of April, which included the removal of:
 - 59,694 kgs of nitrate
 - 1,343 kgs of carbon tetrachloride
 - 58.5 kgs of chromium
 - 93.2 kgs of uranium
 - 1.54 Ci of Tc-99+



M-024 Well Installation Ecology Lead (RL-Kathy Higgins, CHPRC-Dave Capelle)

M-024-58K: Initiate discussions of well commitments to maintain a three-year-rolling prioritized drilling schedule consistent with site-wide clean-up priorities.

- Status: On schedule. Due 6/01/2018.

M-024-68: Complete construction of all wells listed for CY2017 and before identified in TPA Change Package M-024-14-01.

- Status: Completed 10/10/2016 (17-AMRP-0125). Due 12/31/2017.

M-024-69: Complete construction of all wells listed for CY18 and before as listed in M-24-15-01

- Status: Completed 5/31/17. Due 12/31/18

M-024-69-T01: Conclude discussions of well commitments initiated under M-024-58K.

- Status: On schedule. Due 8/1/2018

Regulatory Agency Comments:

200 Area RCRA TSD Closures Ecology Lead (RL – Mostafa Kamal, CHPRC – Mike Hickey)

- Prepared draft 216-A-36B closure plan implementing Ecology's Option 2 (coordinated closure) annotated template.
- Conducted two workshops in March to reach agreement on the technical elements and discuss closure plan and option 2 annotated template.

Regulatory Agency Comments:

U Plant Canyon EPA Lead (RL – Robert Long, CHPRC – TBD)

- Nothing to report.

Regulatory Agency Comments:

Canyon Facilities EPA/Ecology Lead (RL – Robert Long, CHPRC –George Jackson)

- Completed and submitted REDOX SAP Draft C and REDOX AM Draft A for review and comment.
- Finalizing B Plant EE/CA Draft C, expect to submit to EPA/Ecology in May 2018.
- Finalizing comment resolution for REDOX RAWP.
- Finalizing comment resolution for Ecology comments on the Tier 2 B Plant RAWP and 276BA RCRA Closure Plan.
- Revising Draft A 200 Area Tier 2 Miscellaneous Facilities RAWP, which will be resubmitted to DOE-RL during Q2/Q3 FY 2018.

Regulatory Agency Comments:

Waste Site Removal Ecology Lead (RL- Al Farabee, CHPRC – Darin Corriell)

- Submitted to Ecology the three year rolling prioritized schedule as described in TPA milestone M-016-250C on March 28, 2018.

M-016-250: Submit to Ecology for approval a three year rolling prioritized schedule consistent with site-wide clean-up priorities to implement waste site removal actions per Action Memoranda, 3/31/2016 and annually thereafter.

- Status: Complete on 3/28/2018 M-016-250C, due 3/31/2018.

Regulatory Agency Comments:

Monthly Performance Report Assessment

The DOE project managers have not identified any significant issues with CHPRC's previous Monthly Performance Report to be addressed at this meeting.

Central Plateau Milestones due post 1/1/2018

MS#	Title	Due Date
Fiscal Year 2018		
M-016-250C	Submit to Ecology for approval 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).	3/31/2018 Complete
M-024-58K	Initiate Discussions of Well Commitments	6/1/2018
M-085-74	Submit proposals for expedited response actions for one or more of the Tier 1 and Tier 2 facilities in the B Plant geographic area	6/30/2018 Complete
M-015-92A	Submit RFI/CMS & RI/FS Work Plan for 200-EA-1 Work Plan to Ecology	7/31/2018
M-024-69-T01	Conclude discussions of well commitments initiated under M-024-58	8/1/2018
M-015-93C	Initiate characterization field work for the 200-SW-2 OU	9/30/2018 At Risk
M-016-255	DOE shall complete the removal of all waste sites for FY2018 as identified in TPA Change Package M-16-16-01.	9/30/2018
M-016-193	Investigate SE Chromium Plume, Install Wells, Eval. GW Monitoring Data & Install Monitoring Wells	9/30/2018
Fiscal Year 2019		
M-024-69	Complete construction of all wells listed for CY18 and before as listed in M-24-15-01	12/31/2018
M-015-21A	Submit BP-5/PO-1 FS/PP	3/31/2019
M-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 At Risk
M-085-70	Submit RI/FS Work Plan for 200-CB-1	9/30/2019 At Risk
Fiscal Year 2020		
M-015-99	Complete remedial investigation of PFP related waste sites located in 200-WA-1 in accordance with the 200-WA-1 and 200-BC-1 RI/FS Work Plan.	12/31/2019 At Risk
M-024-71-T01	Conclude discussions of well commitments initiated under M-024-58	8/1/2020
M-085-72	Submit RAWP to implement the approved Action Memorandum for 224-B	9/30/2020
M-085-80	Submit RI/FS Work Plan for 200-CP-1	9/30/2020
M-085-100	Submit a RAWP to implement the approved Action Memorandum for 224-T	9/30/2020
M-037-10	Complete Unit-Specific closure requirements for six TSD units	9/30/2020
M-015-112	Submit RFI/CMS & RI/FS Work Plan for 200-IS-1 Work Plan to Ecology	11/30/2020
Fiscal Year 2021		
M-016-86	Complete remedial actions for 618-11 Burial Ground	9/30/2021

M-085-90	Submit RI/FS Work Plan for 200-CR-1	9/30/2021
M-015-84	Complete RI of 200-WA-1 and 200-BC-1 Waste Sites in Accordance with RI/FS Work Plan	12/31/2021 At Risk
Fiscal Year 2022		
M-037-13	Complete unit-specific closure requirements for 241-CX Tank System	9/30/2022
Fiscal Year 2023		
M-015-92B	Submit RFI/CMS, RI/FS Study report and Proposed CAD/PP for 200-EA-1	11/30/2022
M-015-93B	Submit RFI/CMS & RI/FS Study Report and proposed CAD/PP for 200-SW-2 OU	1/31/2023
M-015-92C	Submit RFI/CMS & RI/FS Study report and proposed CAD/PP for the 200-IS-1 OU to Ecology	3/31/2023
M-015-38B	Submit FS/PP for 200-CW-1, 200-CW-3 and 200-OA-1 OUs	7/31/2023
M-015-91B	Submit FS/PP for 200-BC-1 and 200-WA-1 OUs	7/31/2023 At Risk
M-015-110B	Submit CMS & FS and Proposed CAD/PP for 200-DV-1 OU	9/30/2023
Fiscal Year 2024		
M-016-200A	Complete U Plant canyon demolition	9/30/2024
M-037-11	Complete unit-specific closure requirements for 216-B-3 Main Pond System and 216-S-10 Pond and Ditch	9/30/2024
Fiscal Years 2025-2027		
M-085-76	Initiate response actions for the B Plant geographic area	9/30/2025
M-085-84	Initiate response actions for the PUREX geographic work	9/30/2025
M-085-01	Submit change package to establish a date for major milestone M-085-00	6/30/2026
M-016-200B	Complete U Plant barrier construction	9/30/2027

**Documents Submitted to the AR
March - April 2018**

Number	Title	Referencing Document
SGW-41327	Data Quality Objectives Summary Report for the Soil Desiccation Pilot Test	SGW-61483_R0
DOE/RL-2017-65	Hanford Site RCRA Groundwater Monitoring Report for 2017	DOE/RL-2017-67
EPA 2016	Cyanide Clarification of Free and Total Cyanide Analysis for Safe Drinking Water Act (SDWA) Compliance	DOE/RL-2017-67
RPP-PLAN-60544	Sampling and Analysis Plan for the 200 Area State-Approved Land Disposal Site	DOE/RL-2017-67
SGW-38815	Water-Level Monitoring Plan for the Hanford Site Soil and Groundwater Remediation Project	DOE/RL-2017-67

SGW-61483	Data Usability Assessment Report for the Deep Vadose Zone Treatability Test of Soil Desiccation on the Hanford Central Plateau	DOE/RL-2017-67
SGW-61880	Evaluation of Pipe Failure Event at 200 West Pump and Treat Facility	SGW-61703
WRPS-55779-FP	Hanford Tank Waste to WIPP - Maximizing the Value of our National Repository Asset - 14230	DOE/RL-2017-67
SGW-60511	Central Plateau Groundwater Tracer Study Work Plan	Request from Ecology
RPP-RPT-55084	Hanford 241-T Farm Leak Inventory Assessment Report	SGW-60575
ECF-200UP1-12-0055_R1	Analysis of Spatial Variability of Specific Conductance in Groundwater at the 216-S-10 Pond & Ditch	ECF-Hanford-18-0004_R0
ECF-HANFORD-13-0030_R0	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	DOE/RL-2009-85 ADD 1/DOE/RL-2009-127
ECF-HANFORD-13-0036_R0	Native American Risk Assessment for Remedial Investigation/Feasibility Studies of the 200-BP-5 and 200-PO-1 Groundwater Operable Units	DOE/RL-2009-85 ADD 1/DOE/RL-2009-127

Approved Change Notices – None to Report

OPEN ACTION ITEM TRACKING

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status
186	Provide total gallons and the previous two months for the DV-1 Pe	Marty Doornbos	Ecology	3/15/2018	5/17/2018		Complete
187	Review process for adding documents to the AR, namely RL and agency understanding prior submittal to AR and acknowledgment in the PMM	Marty Doornbos	EPA	5/17/2018	7/19/2018		