



**AGENDA**  
***Tri-Party Agreement Central Plateau/River Corridor Milestone Review***  
***March 19, 2020***

**Place:** Meeting was canceled  
**Time:** The Parties agreed to place the slides into the Administrative Record  
**Chair:** NA

Time	Milestones	Subject	DOE Presenter
9:00 a.m.	M-036	Life Cycle Cost Report	Shannon Ortiz
9:10 a.m.	M-083	Plutonium Finishing Plant (PFP) Closure	Tom Teynor
9:20 a.m.	M-016, 089, 093, 094	100 K Remediation/River Corridor Closure	Mark French
9:35 a.m.	M-026	Land Disposal Restrictions Report	Mark French
9:40 a.m.	M-091, M-092	Acquisition of Facilities to treatment, storage, and disposal (TSD), transuranic (TRU), transuranic mixed (TRUM) and low-level mixed waste (LLMW)	Mark French
9:55 a.m.	M-016, 037, 085	Central Plateau Remediation	Mark French
10:15 a.m.	M-015, 016, 024, 085	Soil and Groundwater Remediation	Mike Cline
10:25 a.m.	—	Richland Operations Office Key Documents List	Mike Cline
10:30	—	Adjourn	—

**Hanford Federal Facility Agreement and Consent Order**  
**IAMIT Milestone Review Form**  
**(For Milestones without Issues or Significant Activity)**

**M-036-01 Hanford Lifecycle Scope, Schedule and Cost Report**

**Date: March 19, 2020**

**1. Significant Activities Last Three Months**

- No significant activities to report over the last three months as the M-036-01 Milestone requiring the development of an annual Lifecycle, Scope, Schedule and Cost Report (LCR) has been changed (TPA Change Number M-36-19-01) to reflect a triennial report submittal schedule. The next report will be submitted in January 2022.

**2. Budget Status (within budget or explain variance)**

- No major issues identified.

**3. Issues**

- No major issues identified.

**4. Non-TPA Regulatory Issues with Potential Impact to TPA Milestone**

- No major issues identified.

**5. Significant Activities Planned Next Three Months**

- No significant actions are planned during the next 3 months.



# PFP Closure Project, December 2019 – February 2020

## TPA Milestone Series: M-083



*234-5Z Demolition Progress February 2020*



**March 19, 2020**

U.S. Department of Energy  
U.S. Environmental Protection Agency  
State of Washington, Department of Ecology

# Milestone

Milestone	Due Date	Description	Status
M-083-00A	9/30/17	Complete PFP Facility transition & selected disposition activities. Completion of this major milestone includes the following key elements: 1) completion of all activities necessary to achieve end point criteria established through Milestone M-83-20 for placing the PFP facility in a safe and stable S&M mode, 2) completion of all activities described in the approved M-83 series interim milestones and target date; and 3) completion of the balance of PFP selected disposition activities pursuant to the final action memoranda and work plans. Also see “description/justification” contained in change form M-83-01-03.	Missed



# Project Baseline Performance

## Contract to Date (Through February 2020)

RL-0011 Nuclear Material Stabilization and Disposal	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
<b>Total</b>	\$1,143.3	\$1,126.4	\$1,227.8	(\$17.0)	(1.5%)	(\$101.4)	(9.0%)	\$1,143.6	\$1,242.1	(\$98.6)

## Fiscal Year to Date (Through February 2020)

RL-0011 Nuclear Material Stabilization and Disposal	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
<b>Total</b>	\$21.4	\$17.7	\$23.3	(\$3.6)	(17.0%)	(\$5.5)	(31.2%)



# Status: December 2019 through February 2020

- 234-5Z final phase demolition complete

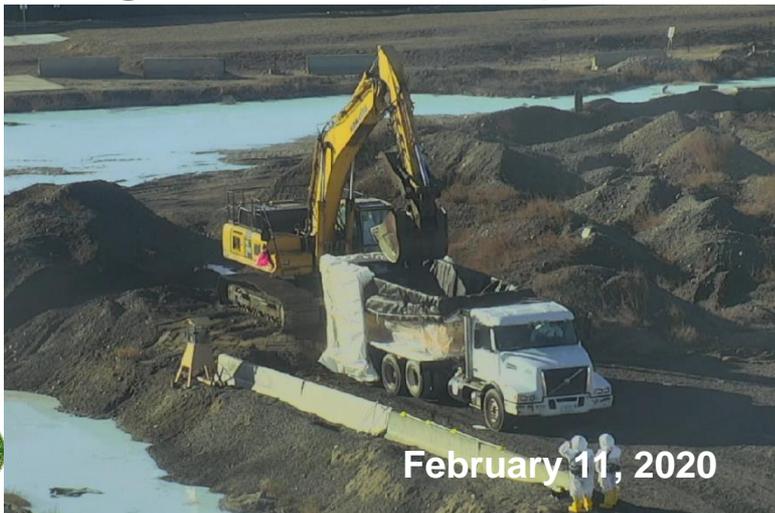


December 23, 2019



February 12, 2020

- Began 236Z final phase



February 11, 2020



February 11, 2020



# Planned Activities March through May 2020

- Complete PRF rubble and contaminated soil load-out
- 236Z and 242Z under slab characterization
- Application of clean soil cover cap
- Project demobilize and close out activities



# River Corridor Closure

December 2019 - February 2020

TPA Milestone Series: M-016, M-089, M-093, M-094



U.S. Department of Energy  
U.S. Environmental Protection Agency  
State of Washington, Department of Ecology



March 19, 2020

# 300-296 Soil Removal

## Significant Accomplishments (December 2019 through February 2020)

- Completed drilling and grouting all 22 shoring piles.  
(12/10/19)



Decontamination activity during Advanced Radiological Training at 324.



Completed drilling all vertical locations, installed remaining inner casings and completed grouting at all shoring locations.

RL-41



# 300-296 Soil Removal

## Resumption Activities

- The draft root cause evaluation report for the management stop work on radiological activities at the 324 Facility was completed in late February.
- The associated draft Corrective Action Plan (CAP) includes 49 corrective actions that incorporate the recommendations from the independent RadCon review and Jacobs corporate assessment recently completed.
- The draft root cause report and CAP are in CHPRC Sr. Management review and approval.



# 300-296 Soil Removal

## Resumption Activities (cont.)

- Many corrective actions are underway including:
  - Development and implementation of advanced radiological training, including simulated hands-on practical demonstrations.
  - Modifying the 324 Mockup facility for use in the hands-on advanced radiological training.
  - Project reorganization including infusion of additional seasoned nuclear facility and health & safety management.
  - Updating project baseline documents including the Project Execution Plan and ALARA Management Plan to reflect more rigorous controls and instituting formal change control process.



# 100K Closure

## Significant Accomplishments (cont.) (December 2019 through February 2020)

- Initiated fabrication of vertical pipe casings (VPCs).
- Continued clearing footprint in preparation for VPC installation.



VPC Layout



VPC Footprint - Before



VPC Footprint - After



# 100K Closure

## Significant Accomplishments (cont.) (December 2019 through February 2020)

- Initiated installation of Garnet Filter Media Removal System equipment.
- Resumed excavation of the 116-KE-2 dig site.
- Completed pumping oily water and commenced demolition of the 166KE Fuel Storage Bunker.



Garnet Filter Media Removal System



166KE Fuel Storage Bunker



# 100K Closure

## Planned actions (through May 2020)

### 105-KW Basin Deactivation

- Complete GFMRS installation
- Conduct readiness review for GFRMS operations
- Complete fabrication of VPCs and install at MASF for testing
- Inspect Settler Tubes to determine disposition path
- Inspect North Load out pit

### 105-KE Interim Safe Storage

- Issue Request for Proposal and evaluate bids for 105-KE Reactor Safe Storage Enclosure (SSE) construction



# 100K Closure

## Planned actions (through May 2020)

### Facility demolition

- Complete 165KE Demolition Preparations
- Initiate 165KE Demolition
- Complete 166KE Demolition

### Waste Sites – Complete excavation and collect samples for the following soil remediation sites

- 100-K-99
- 100-K-47:1
- 100-K-47:2
- 116-KE-2



# Project Baseline Performance

Contract to Date through February 23, 2020

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Cost Variance (\$)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
<b>Total</b>	<b>738.3</b>	<b>720.6</b>	<b>708.5</b>	<b>(17.7)</b>	<b>12.1</b>	<b>817.3</b>	<b>800.9</b>	<b>16.4</b>

Numbers are rounded to the nearest \$0.1 million.



# Milestone Summary

Milestone	Due Date	Description	Status
<b>M-016</b>			
M-016-85	9/30/2025	Complete remedial actions for 300-296 and final disposition for 324 building and Ancillary buildings	On schedule
M-016-85A	9/30/2021	Complete remote excavation of the 300-296 waste site	On schedule
M-016-086	9/30/2021	Complete remedial actions for 618-11 burial ground in accordance with DOE/RL-2014-13-ADD1	At Risk
M-016-178	12/31/2019	Initiate deactivation of 105-KW Fuel Storage Basin	Complete
M-016-143	9/30/2024	Complete the Interim Response Actions for the 100K Area Phase 2	At Risk
M-016-181	9/30/2023	Complete Deactivation, Demolition & Removal of 105-KW Fuel Storage Basin	On Schedule
M-016-186	12/31/2023	Initiate Soil Remediation Under 105-KW Fuel Storage Basin	On Schedule
M-016-00C	9/30/2024	Complete all response actions in the 100K Area	At Risk
<b>M-093</b>			
M-093-27	9/30/2024	Complete 105-KE & 105-KW reactor ISS in accordance with removal action work plan	On schedule.
M-093-28	12/31/2019	Submit change package for proposed interim milestones for 105-KE/KW reactor interim safe storage	Complete

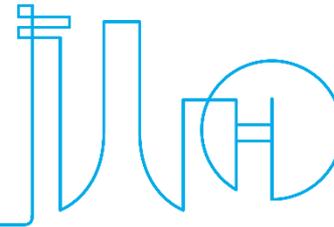




# M-026-01 Land Disposal Restrictions

## TPA Milestone M-026-01 Quarterly Status

- Milestone M-026-01AD was extended through July 31, 2020, and is on schedule.
- Ecology project managers will change hands following CY 2019 report submittal (Elsethagen/Soto to Mathey/Rogers).
- DOE may consider rewriting or replacing the LDR software.



# Solid Waste Stabilization and Disposition Project

TPA Milestone Series: M-091, M-026, and M-092

December 2019 – February 2020

March 19, 2020



U.S. Department of Energy

U.S. Environmental Protection Agency

State of Washington, Department of Ecology

*Columbia River White Bluffs*



# Accomplishments

## December 2019 – February 2020

- TRUM/MLLW Waste shipments continue to PFNW, completed 1,205 m3 since August 2017.
- Continued removal of mixed waste containers from Outside Storage Area A and/or Outside Storage Area B. Eighteen (18) of the twenty (20) have now been removed.
- Meeting held with WIPP February 26 to discuss potential schedules for certification of wastes and shipment to WIPP.



Glovebox Size reduction and repackaging at Perma-Fix Northwest



Glovebox Size reduction and repackaging at Perma-Fix Northwest



# Planned Activities

## March 2020 – May 2020

- TRUM/MLLW Treatment
  - Continue waste processing toward next objective.
  - Discussions with Ecology on M-091 milestones.
- M-091-52 Target Milestones
  - Continue removing mixed waste containers from OSA A and/or OSA B in support of M-091-52-T01C.
  - Continue progress towards M-091-52-T03 to develop a mission needs statement (CD-0) regarding CH processing facilities/capabilities.



Determine disposition path and establish interim agreement milestones for Hanford Site Cesium and Strontium capsules.

- December 2019 – February 2020 Accomplishments
  - Began procurement of materials for Cask Storage System (CSS).
- March – May 2020 Planned Activities:
  - Continue WESF modifications preparations.
  - Initiate mobilization of the Capsule Storage Area Construction Contractor in March.



# Milestone Summary

Milestone	Due Date	Title	Status
<b>M-091</b>			
M-091-47D	9/30/2018	Submit Change Request to Establish Next Two TRU/MLLW Annual Certification/ Disposal Milestones	Complete
M-091-53	9/30/2018	Submit Milestone Change Request to Replace Target Dates for Capabilities to Process TRUM Waste	Complete
M-091-03N	6/30/2020	Submit Revision of TRUM Waste and MLLW PMP to Ecology	On Schedule
M-091-44T	9/30/2020	Submit Change Package to Establish Schedule for Achieving Offsite Shipment of All TRUM Waste	On Schedule
M-091-49A	9/30/2020	Submit a Change Request to Establish a Schedule for Achieving the Retrieval of RSW	On Schedule
M-091-52-T01C	11/30/2020	Remove 20 Additional Mixed Waste Containers from Outside Storage Area A and/or B	On Schedule
M-091-52-T02	9/30/2021	Submit to Ecology, an Interim Response Action to Resume Waste Retrieval	On Schedule
M-091-52-T03	9/30/2022	Submit to Ecology, a CDR for the Facility/Capability for Contact Handled Waste Containers	On Schedule



# Project Baseline Performance through February 2019

RL-0013 Solid Waste Stab & Disp	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
<b>Total</b>	<b>997,141.2</b>	<b>989,330.4</b>	<b>935,142.4</b>	<b>(7,810.8)</b>	<b>-0.8%</b>	<b>54,188.0</b>	<b>5.5%</b>	<b>1,079,211.7</b>	<b>1,008,192.0</b>	<b>71,019.7</b>

Numbers are rounded to the nearest \$0.1 million.

Title	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance	Cost Variance
Project Management	183,193.6	182,185.2	147,505.2	-0.6%	19.0%
Capsule Storage & Disposition	114,190.3	114,186.2	124,879.7	0.0%	-9.4%
Mixed Low Level Waste Treatment	43,182.5	43,182.5	37,200.3	0.0%	13.9%
TRU Retrieval	100,363.5	100,322.3	112,563.5	0.0%	-12.2%
TRU Repackaging	122,531.0	122,050.3	116,294.1	-0.4%	4.7%
Waste Receiving and Processing Facility	61,060.7	60,655.8	59,135.5	-0.7%	2.5%
T Plant	154,953.6	154,104.0	134,768.9	-0.5%	12.5%
Central Waste Complex	129,401.6	128,486.4	127,272.9	-0.7%	0.9%
TRU Disposition	34,512.7	34,544.8	26,078.4	0.1%	24.5%
Mngt of Cesium and Strontium Capsules Proj W-135	18,092.1	16,703.2	17,370.2	-7.7%	-4.0%
Capsule Interim Storage Operations	35,659.7	32,909.6	32,073.6	-7.7%	2.5%



# Central Plateau Remediation Project

TPA Milestone Series: M-016, M-037, M-085

December 2019 – February 2020  
March 19, 2020



U.S. Department of Energy  
U.S. Environmental Protection Agency  
State of Washington, Department of Ecology

*Columbia River White Bluffs*



# REDOX Risk Reduction Accomplishments

December 2019 through February 2020

- Shipped totes containing combustibles and legacy waste in the silo and galleries of REDOX for disposal and offsite treatment.
- Re-painted the Hexone line and fixed contamination area to down-post site as clean.
- Completed posting the established truck route and boundary location for the contamination transfer area and CERCLA waste storage area.
- Purchased Self-Contained Shower Trailer to support step-off for personnel coming out of the REDOX facility.
- Installed the REDOX stack sampler callout system and performed annual fan preventative maintenance.



# Facility Accomplishments

## December 2019 through February 2020

- Radiologically characterized and completed biological cleanup of accessible areas on the non-contaminated side of the 224B Facility.
- Completed the mechanical isolation cold and dark index and work package for the 224B Facility.
- Initiated Class 2 asbestos abatement on exterior of 224B.
- Radiological characterized 214A and 2714A. No elevated readings were detected at either facility.
- Performed ground scans of PUREX North footprint to support isolations and underground injection control closures.
- Pumped 957 gallons of radioactively contaminated water from the V11-216-A-TK-2 PUREX catch tank.



*Asbestos Abatement activities at 224B*

*Radiological surveys performed at 2714A north of PUREX*



# Other Accomplishments

## December 2019 through February 2020

- Abated 2,714 linear feet of asbestos insulation from 200 East steam lines.
- Completed steam line pipe support demolition and debris waste processing for Leg 22 along 7th Street in 200 East.
- Completed 1,269 linear feet of steam line pipe support demolition (1,410 total linear feet) for Leg 20 west of Baltimore Street in the 200 East Area.
- Completed the 200E Tri-Annual (third of three) Inactive Waste Sites Surveillances ahead of schedule.
- Completed washout repairs at waste sites 200-E-44 (PUREX railroad cut unplanned release), 216-A-29 (PUREX chemical sewer ditch) and 216-U-11 (ditch).
- Completed Vitrification Plant risk reduction waste site armor cap installation on sites 216-A-19 (trench), 216-A-20 (trench) and 216-A-34 (ditch).



*19<sup>th</sup> Street crossover removal*



*Washout repair and hardening of 216-A-34*



# Accomplishments

## December 2019 through February 2020

### Canyon Stabilization Documents

- Submitted to Regulators:
  - DOE/RL-2017-34 224B Removal Action Work Plan (RAWP), Rev. 0 (Complete)
  - DOE/RL-2017-33 224B Sampling Analysis Plan (SAP), Rev. 0 in Clearance and Approval
  - DOE/RL-2016-47 Tier 2 PUREX RAWP for Regulator Review
  - DOE/RL-2017-46 Tier 2 PUREX SAP for Regulator Review
  - DOE/RL-2016-14 B-Plant EE/CA, Rev.0 for Regulator Review
- Received from CHPRC:
  - DOE/RL-2016-53 PUREX Action Memorandum (AM), Decisional Draft (DD) for RL Review
  - DOE/RL-2015-72 PUREX N RCRA Closure Plan (CP), Draft for RL Review
  - Z Cribs Time Critical Removal Action (TCRA) AM, Draft for RL Review
  - DOE/RL-2019-37 224T SAP, DD for RL Review
- In Development Nearing Completion:
  - DOE/RL-2019-36 224T RAWP, DD for RL Review



# Planned Activities for CPRM

March 2020 – May 2020

- Prep 293-A sample catch tank for pumping of accumulated water.
- 191-S tank pit visual inspection – prep for pump down.
- Complete REDOX temporary exhauster – 90% design review.
- Award contract to perform concrete cuts at REDOX to support future waste egress.
- Complete installation of REDOX shower trailer.
- Continuing infrastructure upgrades for the phased approach at REDOX to support future work.
- Implementation of DSA Rev 8 at REDOX.
- Complete Asbestos and Hazmat Removal (requires approved RAWP/SAP) for 224B .
- Complete Mechanical and Electrical Isolations for 224B.
- Complete FY20 steam line removal and final waste processing for 200 East.
- Complete the remaining final waste processing for 200 West steam line removal.
- Perform mechanical and electrical isolations for PUREX North facilities.
- Identify proposed electrical and mechanical at PUREX Main Canyon.
- Continuation of effective RCRA Rev 9 permit with modified addendums.



# Planned Activities

March 2020 through May 2020

## Canyon Stabilization Documents

- Regulator Approvals:
  - DOE/RL-2016-47 Tier 2 PUREX RAWP, Rev.0, Ecology Review
  - DOE/RL-2017-46 Tier 2 PUREX SAP, Rev.0, EPA and Ecology Review
  - DOE/RL-2016-14 B Plant EE/CA, Rev.0, Ecology Review
  - DOE/RL-2017-33 224B SAP, Rev.0, EPA and Ecology Review
- RL/Regulator Reviews:
  - Z Cribs Time Critical Removal Action (TCRA) AM, for EPA Review
  - DOE/RL-2016-53 PUREX AM, Draft for Ecology Review
  - DOE/RL-2015-72 PUREX N RCRA Closure Plan (CP), Draft for RL and Ecology Review
  - DOE/RL-2016-51 B Plant AM, DD for RL Review
  - DOE/RL-2019-36 224T RAWP, DD for RL Review
  - DOE/RL-2019-37 224T SAP, DD for RL Review



# Milestone Summary

Milestone	Due Date	Description	Status
<b>M-016-00 Complete Remedial Actions For All Non-Tank Farm &amp; Non-Canyon OUs</b>			
M-016-255	9/30/2018	DOE shall complete the removal of all waste sites for fiscal year 2018 as identified in TPA change package M-16-16-01	Dispute resolution
M-016-250D	3/31/2019	DOE shall submit a 3-year rolling prioritized schedule to implement waste site removal actions	Complete 3/27/19
M-016-250E	3/31/2020	Submit to ECY a 3-Year Rolling Prioritized Schedule to Implement Waste Site Removal Action	On Schedule
M-016-256	9/30/2019	DOE shall complete the removal of all waste sites for fiscal year 2019 as identified in TPA change package M-16-17-01	Dispute resolution
<b>M-037 TSD Closure Activities</b>			
M-037-10	9/30/2020	Complete Closure for 6 Specified TSD Units	In abeyance  Public comment of TA completed in November 2019  Parties finalizing responses to comments and final milestone approval package
M-037-11	9/30/2024	Complete Closure Requirements for 216-B-3 & 216-S-10	
M-037-13	9/30/2022	Complete Closure for the 241-CX Tank System	
<b>M-085-00 Complete Response Actions for Specified Canyon Facilities &amp; Waste Sites</b>			
M-085-72	9/30/2020	Submit to Submit to Ecology a Removal Action Work Plan for 224-B	Complete 9/19/19
M-085-74	6/30/2018	Submit Expedited Response Action for one or more Tier 1 and Tier 2 facilities in the B Plant geographical area.	Complete 6/30/18
M-085-100	9/30/2020	Submit Removal Action Work Plan for 224-T to EPA	On Schedule



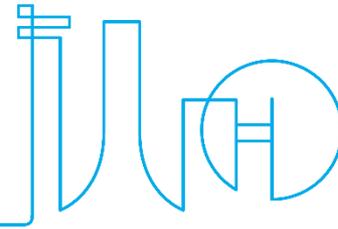
# Project Baseline Performance through February 2020

## Contract to Date

<b>BS 040/RL-0040 Nuclear Facility D&amp;D</b>	<b>Budgeted Cost of Work Scheduled</b>	<b>Budgeted Cost of Work Performed</b>	<b>Actual Cost of Work Performed</b>	<b>Schedule Variance (\$)</b>	<b>Cost Variance (\$)</b>	<b>Budget at Completion (BAC)</b>	<b>Estimate at Completion (EAC)</b>	<b>Variance at Completion (VAC)</b>	<b>SPI</b>	<b>CPI</b>
BASE	302.3	295.6	298.4	(5.7)	(2.7)	340.3	345.5	(5.2)	0.98	0.99
ARRA	285.5	285.5	266.5	0	19.0	285.5	266.5	19.0	1.00	1.07
<b>Total</b>	<b>587.8</b>	<b>581.1</b>	<b>564.9</b>	<b>(5.7)</b>	<b>16.3</b>	<b>625.8</b>	<b>612.0</b>	<b>13.8</b>	<b>0.99</b>	<b>1.03</b>

Numbers are rounded to the nearest \$0.1M





# Soil and Groundwater Remediation Project

TPA Milestone Series: M-015, M-016, M-024, M-085



U.S. Department of Energy  
U.S. Environmental Protection Agency  
State of Washington, Department of Ecology

*December 2019 – February 2020*

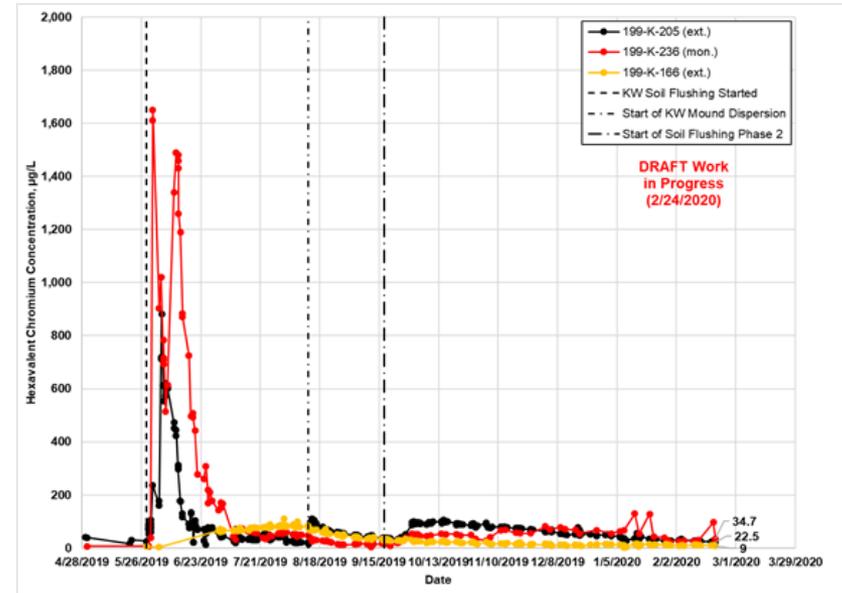


December 19, 2019

# Accomplishments – River Corridor December 2019 – February 2020

- Completed public review of the 100-BC-5 Proposed Plan on December 9, 2019. Initiated responses to the public comments.
- Continued the 100-KW soil flushing test. Approximately 22.2 million gallons of water have been sent to the infiltration gallery through January 2020.
- Transmitted the 100-NR-2 Bioventing Confirmation Sampling and Analysis Plan, Rev 0, to the Agencies on February 25, 2020.
- Transmitted the 100-KR-4 Well Installation Sampling and Analysis Plan, Rev 0, to EPA on January 23, 2020.
- Initiated drilling and construction of the nine wells for the 100-HR-3 OU on February 5, 2020.

Cr(VI) data collected during soil flushing infiltration test



# Accomplishments – Central Plateau December 2019 – February 2020

- Transmitted the 200-BP-5/200-PO-1 Feasibility Study for Interim Action, Rev 0, to the Agencies on December 18, 2019.
- Transmitted the 200-UP-1 RD/RA Work Plan, Rev 1, Draft A, and the Performance Monitoring Plan, Rev 1, Draft A, to EPA for review on February 11, 2020.
- Transmitted the 200-DV-1 Technology Evaluation and Treatability Studies Assessment for the Hanford Central Plateau Deep Vadose Zone, Rev 0, to the Agencies on January 8, 2020.
- Issued the 200-ZP-1 Ringold A SAP, Rev 0, on February 20, 2020. The document is being prepared for transmittal to the EPA.
- Initiated preparation of the 200-CP-1 (PUREX) RI/FS Work Plan.
- Initiated drilling and construction of the five extraction wells for the 200-ZP-1 OU on January 20, 2020.



200 West P&T Facility Upgrades for  
200-ZP-1 Optimization Study



# Milestone Summary (Rolling 12 Months)

Milestone or Target Date	Due Date	Description	Status
<b>M-015-00</b>			
M-015-93C	9/30/2018	Initiate characterization of the 200-SW-2 OU landfills	Dispute Resolution**
M-015-96	2/28/2019	Submit 100-OL-1 RI report and change request for FS report to Ecology	Completed
M-015-21A	3/31/2019	Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology	Completed
M-015-97	8/30/2020	Submit to Ecology, the 200-OL-1 Operable Unit Feasibility Study Report	On Schedule
M-015-98	6/30/2019	Complete remedial investigation of U Plant waste sites located in 200-WA-1 in accordance with WP	Dispute Resolution*
M-015-99	12/31/2019	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	Dispute Resolution*
M-015-112	11/30/2020	Submit RFI/CMS and RI/FS Work Plan for 200-IS-1 Work Plan to Ecology	At Risk
M-015-92B	11/30/2022	Submit RFI/CMS & RI/FS Report and PCAD/PP for 200-EA-1 to Ecology	At Risk
M-015-92C	3/31/2023	Submit RFI/CMS & RI/FS Report and PCAD/PP for 200-IS-1 to Ecology	At Risk
M-015-38B	7/31/2023	Submit a FS Report & PP for CW-1, CW-3 & OA-1 Ous to EPA	At Risk
M-015-110B	9/30/2023	Submit CMS & FS & Proposed Plan /CA Decision for 200-DV-1 to Ecology	At Risk

Subsequent follow-on milestones (M-015-84 and M-015-91B) are also in dispute resolution.

\*\* Subsequent follow-on milestone (M-015-93B) is also in at risk.



\*

# Milestone Summary (Rolling 12 Months)

Milestone or Target Date	Due Date	Description	Status
<b>M-024-00</b>			
M-024-58L	6/1/2019	Initiate Discussions of Well Commitments	Completed
M-024-70-T01	8/1/2019	Conclude Discussions of Well Commitments initiated under M-024-58	Completed
M-024-71-T01	8/1/2020	Conclude Discussions of Well Commitments initiated under M-024-58	On Schedule
M-024-70	12/31/2019	Complete the Construction of All Wells Listed for CY19 and Before	Completed
M-024-71	12/31/2020	Complete the Construction of All Wells Listed for CY20 and Before	On Schedule
M-024-58M	6/1/2020	Initiate Discussions of Well Commitments	On Schedule
<b>M-085-00</b>			
M-085-70	9/30/2019	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CB-1 to Ecology	Dispute Resolution
M-085-80	9/30/20	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CP-1 to Ecology	On Schedule
M-085-90	9/30/2021	Submit Remedial Investigation/Feasibility Study Work Plan for 200-CR-1 to EPA	At Risk
<b>M-016-00</b>			
M-016-119-T01	12/31/2020	Operational System in Place to Contain GW Plumes in 200 NPL Area	On Schedule
M-016-110-T02	12/31/2020	Take Actions Such that Hexavalent Chromium Meets Drinking Water Standards	On Schedule



# RL-30 Project Baseline Performance

Contract to Date Through February 2020

RL-0030 Soil and Groundwater Remediation	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
<b>Total</b>	1,676.3	1,671.3	1,622.3	-4.6	-0.3%	49.4	3.0%	1,757.6	1,701.9	55.7

Numbers are rounded to the nearest \$0.1 million.

Period of performance 10/1/2008 through February 2020



# Planned Activities

## March through May 2020

### **River Corridor**

- EPA to continue preparation of the 100-BC-5 ROD.
- Resolve Ecology's comments and issue the 100-HR-3 RD/RA Work Plan.
- Resolve EPA's comments on the Draft B 100-KR-4 RI.
- Complete Draft B 100-KR-4 FS and submit for EPA's review.
- Receive Ecology's comments on the Draft B 100-NR-2 RI/FS.
- Shut down infiltration of the KW Treatability Test for rebound evaluation.

### **Central Plateau**

- Finalize 200-EA-1 RI/FS Work Plan following Tentative Agreement negotiations.
- Issue the 200-ZP-1 Performance Monitoring Plan, Rev 1.
- Issue the 200-ZP-1 RD/RA WP, Rev 1.
- Issue 200-BP-5/200-PO-1 PP and initiate public review.
- Issue the 200-UP-1 RD/RA WP, Rev 1.
- Issue the 200-UP-1 Performance Monitoring Plan, Rev 1.



# Planned Activities

## March through May 2020

### **Central Plateau**

- Certify and submit the 216-B-3 Pond Closure Plan.
- Certify and submit the 216-S-10 Pond and Ditch Closure Plan.
- Certify and submit the 241-CX Tanks Closure Plan.
- Certify and submit the 216-A-29 Ditch Closure Plan.
- Certify and submit the 216-B-63 Trench Closure Plan.



TPA Decision Document List

	ROD Area Location	Document	Milestone	Milestone Due Date	Regulatory	Review	DOE Lead	Contractor Lead	Regulatory Lead	Agency	Comments/Issues
1	200-IS-1 200 Area Pipelines	RFI/CMS & RI/FS Work Plan - Draft B	M-015-112: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for 200-IS 1 OU to Ecology	11/30/2020	TBD	TBD	D. Hildebrand	D. St John	K. Welsh	Ecology	Not funded in FY20.
2	200-IS-1 200 Area Pipelines	TSD - Closure Plan for 241-CX Tank System (241-CX-70, 241-CX-71, 241-CX-72)	M-037-13: Complete Closure Requirements for 241-CX-70, 241-CX-71, and 241-CX-72	9/30/2024	TBD	TBD	M. Kamal	D. St John	K. Welsh	Ecology	241-CX Tank System: The Closure Plan was certified on September 3, 2019. This closure plan is part of the bulk certification group.
3	200-EA-1 200 East Closure Plans		M-037-10: Complete Closure for 6 Specified TSD Units	9/30/2020	On Going	On Going	M. Kamal	D. St John	K. Welsh	Ecology	216-A-36B Crib: The Closure Plan was certified and submitted to Ecology on February 5, 2019. Ecology placed it into 'lockdown' on February 28, 2019. 216-A-37-1 Crib: The Closure Plan was certified and submitted to Ecology on February 5, 2019. Ecology placed it into 'lockdown' on May 3, 2019. 216-A-29 Ditch: The Closure Plan was placed into 'Freeze' status by Ecology on April 25, 2019. It is ready for certification and is waiting for bulk certification with the other three closure plans. 216-B-63 Trench: The Closure Plan was submitted to Ecology for review on June 15, 2019. Comments were received on July 10, 2019, and discussed on July 11, 2019. Two Ecology's comments remain to be resolved, one dealing with pipelines and the other dealing with the amount of historical information to be included. Once resolved, this closure plan is part of the bulk certification group. Hexone Storage and Treatment Facility: Closure plan is undergoing comment resolution with Ecology.
4	200-CW-1, 200-CW-3, and 200-OA-1 Outer Area	TSDs - Closure Plans for 216-B-3 Main Pond and 216-S-10 Pond and Ditch	M-037-11: Complete Closure Requirements for 216-B-3 & 216-S-10	9/30/2024	On Going	On Going	M. Kamal	D. St John	K. Welsh	Ecology	216-B-3 Main Pond: The Closure Plan was submitted to Ecology on June 20, 2019, for their confirm comment capture review. This Closure Plan is on hold pending the outcome of the comment resolution for the 216-B-63 Closure Plan. This closure plan is part of the bulk certification group. 216-S-10 Pond: The Closure Plan was submitted to Ecology on August 6, 2019, for their confirm comment capture review. Comments were provided on August 7 and resolved on August 14. The Closure Plan was submitted to Ecology on August 21, 2019, to be 'frozen.' This Closure Plan is on hold pending the outcome of the comment resolution for the 216-B-63 Closure Plan. This closure plan is part of the bulk certification group.
5	200-EA-1 200 East Inner Area	RFI/CMS & RI/FS Work Plan	M-015-92A: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for 200-EA-1 OU to Ecology	7/31/2018	7/14/2018	8/16/2018	D. Hildebrand	D. St John	K. Welsh	Ecology	The Rev 0 RI/FS Work Plan has been prepared and comments resolved except for the schedule and associated TPA milestone. Finalization of the work plan is pending the Tentative Agreement negotiations and identification of a future TPA milestone. No change.
6	200-BP-5, 200-PO-1 200 East Area Groundwater	200-BP-5/PO-1 FS and PP	M-015-21A: Submit a 200-BP-5 and 200-PO-1 OU Feasibility Study Report and Proposed Plan(s) to Ecology.	Milestone Completed 3/27/2019	12/18/2018 3/28/2019	2/28/2019 5/13/2019	J.Hanson	C. Cearlock	K. Welsh	Ecology	The Rev. 0 Feasibility Study was transmitted to the Agencies on December 18, 2019. The Draft Rev. 0 Proposed Plan is under review by EPA HQ.
7	100-BC-1, 100-BC-2, 100-BC-5 100-B/C	RI/FS Report and Proposed Plan	M-015-79: Submit RI/FS Report and PP for 100-BC	Milestone Completed 12/15/2016	12/16/2016	01/30/2017	E. Glossbrenner	R. Evans	L. Buelow	EPA	Documents are complete. The proposed plan completed the public review period on December 9, 2019.
8	100-KR-1, 100-KR-2, 100-KR-4 100-K	RI/FS Reports and Proposed Plan	M-015-66-T01: Submit RI/FS Report and PP for 100-K. Complete	Target Completed 9/21/2011			E. Glossbrenner	E. Feist	L. Buelow	EPA	The RI and FS have been separated to allow for a potential TI waiver to be pursued. EPA's comments have been resolved and the Draft Rev 0 RI was provided to EPA for review on February 6, 2020. The Draft B FS is scheduled for EPA review in May, 2020.
9	100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, 100-HR-3 100-D/H	RD/RAWP	None		1/24/2019	3/31/2019	J.Sands	R. Evans	K. Welsh	Ecology	Continued resolution of Ecology's comments.
10	100-NR-1, 100-NR-2 100-N	RI/FS Reports and Proposed Plan	M-015-75: Submit FS/PP for NR-1/2 Complete	Milestone Completed 6/24/2013	6/25/2013	10/2/2013	S. Balone	B. Faught	A. Boyd	Ecology	Transmitted the Draft B RI/FS to Ecology for review on November 19, 2019. Ecology has extended the comment period to April 9, 2020.