

DISTRIBUTION
100 & 300 AREA UNIT MANAGERS MEETING
January 16, 2020

FINAL MEETING MINUTES

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**100/300 AREA UNIT MANAGERS MEETING
AGENDA
January 16, 2019**

100 Area River Corridor Soils and Sludge & K Basin Summary (Deborah Singleton/R. Quintero)

300 Area River Corridor Soils Summary (Lorna Dittmer/B. Vannah)

Groundwater Summary by O.U.

- 100-K Area Groundwater (Ellwood Glossbrenner)
- 100-BC Area Groundwater (Ellwood Glossbrenner)
- 100-N Area Groundwater (Steve Balone)
- 100-D/H Areas Groundwater (John Sands)
- 100-F Area Groundwater (Steve Balone)
- 300 Area Groundwater (John Sands)
- Summary of Hanford Sampling Program
- Documents for the Administrative Record and Approved TPA Change Notices

100-OL-1 – Orchard Lands (Johns Sands)

Action Items

Closing Comments

- Sign concurrence to “Groundwater Summary by O.U.” and “Action Item List” if applicable

All future UMM meetings will be held in 2420 Stevens Room 308 from 1:00-2:30pm as follows:

2020

- January 16
- March 19
- May 21
- July 16
- September 17
- November 19

100/300 Area Unit Managers Status Meeting
January 16, 2020

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Theresa Bergman	CHPRC-Environmental	TPA Lead	509-376-1669
Stephanie Brasher	MSA TPA		373-6230
Alicia Boyd	Ecology	100 Area	372-7934
Manuel Lopez	DOE	100 Area	
Brian Stetter	DOE		373-3535
John Sands	DOE	D, H, 300 OLI	372-2282
Glossbrenner, Ellwood	DOE	B/C, K, N?	376-5828
Deborah Smgton	CHPRC	100K	373-7689
Julie Johanson	CHPRC	300 Area	373-6031
Lorna M. Dittmer	CHPRC	324	531-8877
BRIAN JOHNSON	ECY	100 Area	372-7906
Craig Cameron	EPA	100 N	376-8665
Shannon Hardziej	WOOD		537-2054
Bill Faugot	CHPRC	CAM	376-3139
Laura Buelow	EPA		376-5466
KIM WELSCH	ECOLOGY	PM	372-7882
Dib Goswami	Zestom	HG	372-7902
Laura DiMara	CHPRC	Admin	373-9763

**100/300 Area Unit Managers Meeting
Meeting Minutes Approval
January 16, 2020**

APPROVAL:  DATE: 2/5/20
River Corridor Project Manager, DOE/RL

APPROVAL:  DATE: 16, January 2020
Groundwater Project Manager, DOE/RL

APPROVAL:  DATE: 1/16/20
Environmental Restoration Acting Project Manager, Ecology

APPROVAL:  DATE: 1-16-2020
100 Area Project Manager, EPA

HFFACO Action Plan Section 4.1 requires signature of agreements and commitments made during the Project Manager Meeting. Approval of these minutes documents agreements and commitments identified in the attached "Groundwater Summary by O.U." and the "Action Item List". Approval does not apply to the minutes themselves or to any other attachments.

100K Area Report
100/300 Area Unit Manager Meeting
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RL-0012 Sludge Treatment Project

TPA Milestone M-016-176, Completed sludge removal from 105-KW Fuel Storage Basin with the shipment of STSC #20 to T Plant.

- (12/31/19) – Completed September 11, 2019.
- Completion letter submitted to DOE on November 14, 2019.

TPA Milestone M-016-173, Select K Basin sludge treatment and packaging technology and propose new interim sludge treatment and packaging milestones.

- (9/30/22) – On Schedule

RL-0041 100K Closure Project

TPA Milestone M-016-143, *Complete the interim response actions for 100 K Area within the perimeter boundary and to the Columbia River for Phase 2 actions. Phase 2 is defined in the 100 K Area RD/RA Work Plans.*

- (9/30/24) – At Risk – New date proposed in Change Number M-16-19-05 as part of the submittal to satisfy TPA Milestone M-093-28 on December 18, 2019.

Soil Remediation and Waste Site Closure

- Contractor continues to mobilize and train in preparation to begin soil remediation in Mid-January.
 - Following mobilization, work is expected to begin at:
 - Waste Site 100-K-47:1 for overburden removal
 - Waste Site 116-KE-2 for soil excavation (contingent on training).

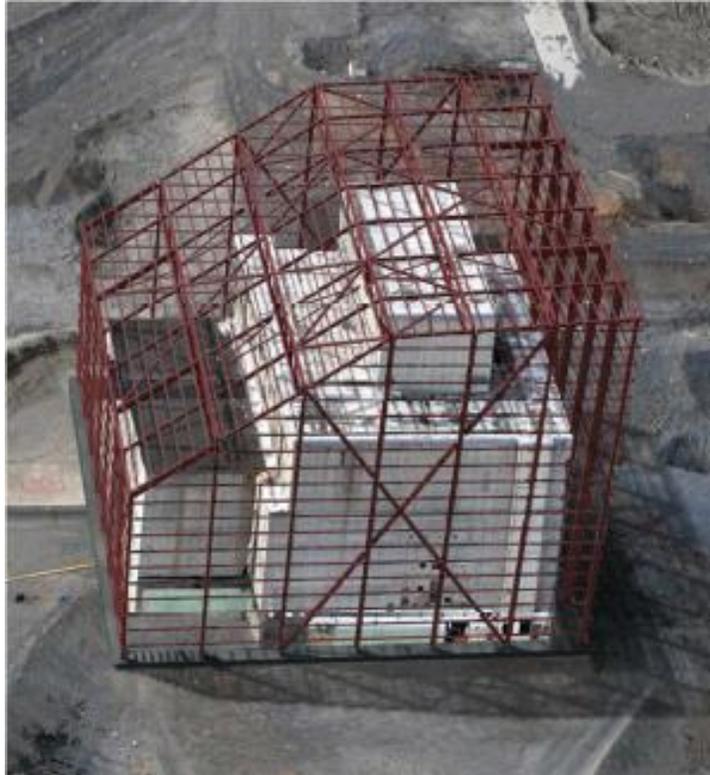
Ancillary Facility Deactivation and Demolition (D&D)

- Completed removing residual oily water from the 166-K East Fuel Storage Bunker to the extent practical.
- 166-K East demolition is underway.



166-KE demolition underway
(165-KE Power Control Building in Background)

100K Area Report
100/300 Area Unit Manager Meeting
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105-K East Reactor Interim Safe Storage (ISS)



Conceptual Design of the 105-K East Safe Storage Enclosure

- The architecture engineering (AE) contractor completed the Safe Storage Enclosure (SSE) design modification package and is routing for approvals.
- The statement of work is ready for Procurement Action when the funding is available.

100K Area Report
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TPA Milestone M-093-28, Submit a change package for proposed interim milestones for 105-KE and 105-KW Reactor Interim Safe Storage

- (12/31/19) – Complete. Change Number M-93-19-01 was submitted on December 30, 2019.

Regulator Comment: It was not signed by EPA by the end of the 14-day TPA requirement, therefore it is considered disapproved.

TPA Milestone M-093-27, *Complete 105-KE and 105-KW Reactor Interim Safe Storage in Accordance with the Removal Action Work Plan.*

- (9/30/24) - At Risk – New dates being proposed as part of change package for M-093-028.

TPA Milestone M-016-00C, *Complete all response actions for the 100 K Area*

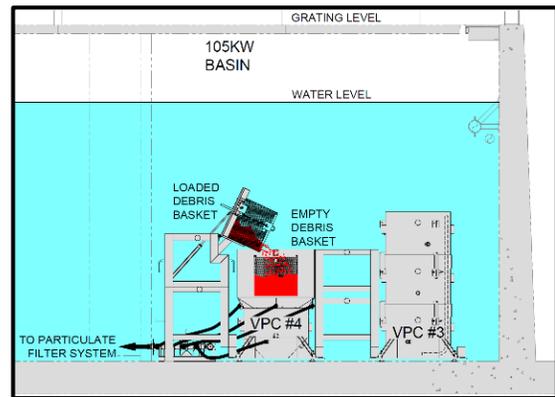
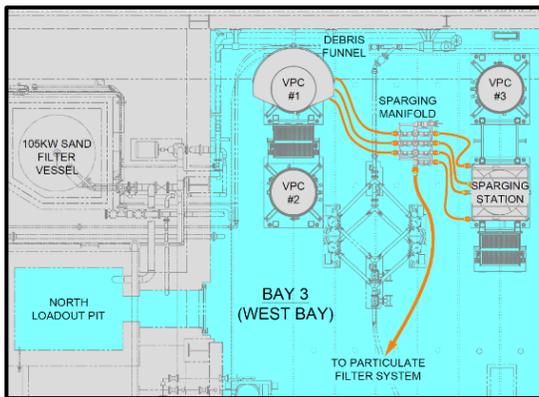
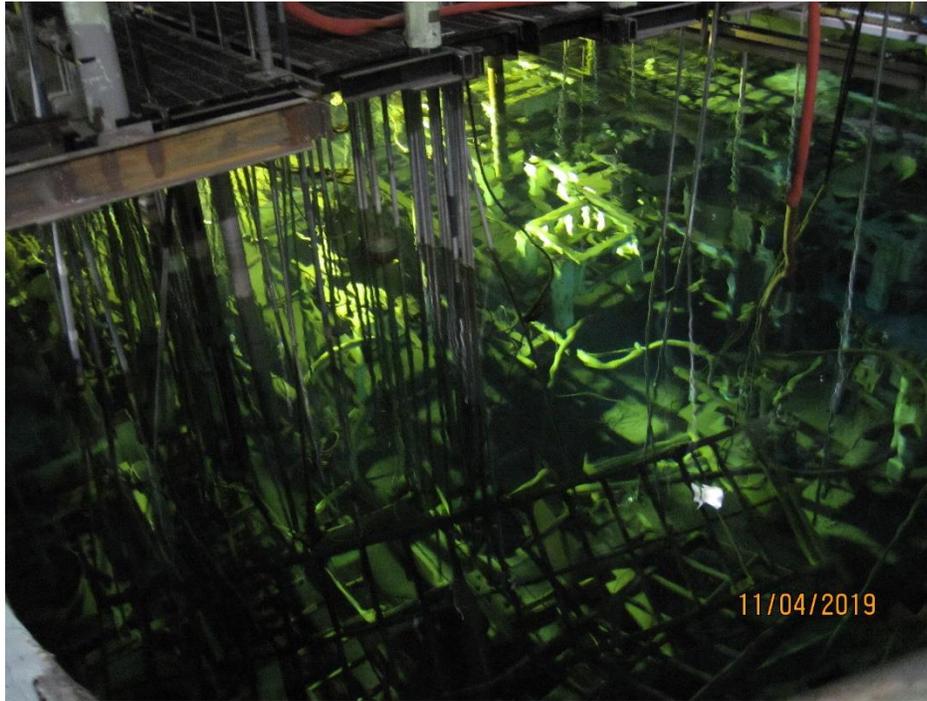
- (9/30/24) - At Risk – New date proposed in Change Number M-16-19-05 as part of the submittal to satisfy TPA Milestone M-093-28 on December 30, 2019.

Regulator Comment: It was not signed by EPA by the end of the 14-day TPA requirement, therefore it is considered disapproved.

TPA Milestone M-016-178, Initiate deactivation of 105-KW Fuel Storage Basin.

- (12/31/19) – Completed deactivation of the Basin Recirculation and Cooling System.
- Completion letter submitted to DOE on December 17, 2019.
- Basin deactivation work continues in the 105KW Basin. Activities include the following:
 - Clearing the footprint in the K West Basin West Bay for installation of the Vertical Pipe Casing (VPC) System continues.
 - Relocation, inventorying and dose rating below-water debris.
 - Dose rating of the basin walls.
 - Preparing to perform bulk removal of hanging pole tools.
 - Preparing to inspect and characterize the Integrated Water Treatment System settler tanks.
 - Preparing to sample the Skimmer System sand filter media.
- Columbia Energy and Environmental Services continues fabrication of Vertical Pipe (VPC) System.

100K Area Report
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Plan View of VPCs Installed in K West Basin

VPC Debris Washing Station

TPA Milestone M-016-181, complete deactivation, demolition and removal of 105-KW Fuel Storage Basin

- (9/30/23) – On Schedule
- Team is incorporating EPA comments to draft of DOE/RL-2010-52, *Remedial Design and Remedial Action Work Plan for the K Basins Interim Remedial Action: 105-K West Basin Deactivation*.

TPA Milestone M-016-186, Initiate soil remediation under the 105-KW Fuel Storage Basin.

- (12/31/23) – On Schedule.

**300 Area Report
300 Area Unit Manager Meeting
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300 Area ROD Scope

TPA Milestone M-016-85A, *Complete remote excavation of the 300-296 waste site in accordance with an approved RD/RA Work Plan, (9/30/2021)* – On Schedule

Performing the following activities in preparation for remote excavation of the highly contaminated soil beneath the 324 Building B-Cell, and grout in place in the adjacent hot cells (A, C, D) for disposal.

324 Building Equipment Installation:

- N/A

Equipment Procurement & Fabrication:

- Continued design and fabrication of equipment:
 - B-Cell 10T Crane
 - Universal cutting tool
 - Cell dams
 - Water delivery system for the Airlock
 - Concrete box for soil waste bins
 - Modified shielded lids and frames
 - Self-leveling lifting device

324 Activities:

- Completed camera installation in Room 18 (11/4/19)
- Measured A-Cell and D-Cell door dams to support cell dam fabrication (11/11/19)

Structural Modifications:

- Temporary north shoring excavation (supports stabilizing soil below B-Cell door):
 - Completed drilling of all of the 21 micropiles (12/5/19)
 - Completed grouting of all of the 21 micropiles (12/10/19)
- Room 18/Pilot Hole:
 - Completed RLWS line removal Hazard Review Board (11/13/19)

Mockup:

- Conducted mock-up grout pouring in waste boxes.

Cell Cleanout:

- N/A

**300 Area Report
300 Area Unit Manager Meeting
January 16, 2020**



The Temporary North Shoring Completed Micropiles (12/11/19)

Upcoming Activities:

	17-Nov	25-Nov	2-Dec	9-Dec	16-Dec		6-Jan	13-Jan	20-Jan	27-Jan	3-Feb	10-Feb	17-Feb	24-Feb	2-Mar	9-Mar
11/14 event																
Kickoff																
	Interviews															
		Kickoff	Causal Analysis				Develop CAs									
		Benchmarking						Evaluate/Implement Process Improvements								
		Work observations					Mockup Training		Continued Training (Rm18)			Airlock Specific Training				
		Radcon Independent Assessment					Assessment report									
							Initial Prestarts			Updated Prestarts						
	Draft Resumption Plan								Final			<i>Tentative resumption timing</i>				
									Management Review			<i>RM 18</i>				<i>Airlock</i>

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TPA Milestone M-016-85, Complete Remedial Actions for 300-296 and Disposition for 324 Bldg. and Ancillary Bldgs. (9/30/2025) – On Schedule

Milestone Description: *Complete remedial actions for 300-296 waste site in accordance with RD/RA Work Plan for 300-FF-2 Soils (DOE/RL-2014-13-ADD1) and disposition for the 324 Building and Ancillary Buildings in accordance with the Removal Action Work Plan (DOE/RL-2004-77). Completion of facility disposition is defined as the completion of deactivation, decontamination, decommissioning, and demolition in accordance with the removal action work plan.*

100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
January 16, 2020
100-K Area Groundwater Operable Unit

EPA Lead (RL – E. Glossbrenner, CHPRC – E. Feist, J. Hulstrom)

- CERCLA Process Implementation:
 - CHPRC continues to work on defining dispositions to EPA comments on the Draft B, Remedial Investigation comments and the Feasibility Study alternatives generated at the November 13, 2019 meeting with RL and EPA.
 - A meeting was held on December 16, 2019, with RL, EPA, and USGS discussed the Draft B Remedial Investigation comments regarding the modeling concepts and how they were applied in the report.
- Monitoring & Reporting:
 - The KW Soil Flushing Treatability Test, which began on May 28, 2019 at the former 183.1KW Headhouse chemical storage tank farm, continued during the months of November and December. The original plan was to shut the system off in early November to allow the aquifer to reestablish pre-soil flushing conditions. However, Cr(VI) concentrations were still about the DWS at that time. On November 11, 2019, RL concurred with CHPRCs approach to continue to operate the infiltration gallery through the winter months until Cr(VI) concentration drop below 20 µg/L. As of December 31, 2019, about 45 million gallons of water has been discharged to the soil column through the infiltration gallery since the start of the test. Figure KR-1 shows the Cr(VI) results through the end of December 2019. Figure KR-2 shows Cr(VI) concentrations in key wells since the restart of the infiltration gallery on September 17, 2019.
 - The 100-K well drilling activities began on November 5, 2019. As of December 19, 2019, wells 199-K-238 and 199-K-240 have been nearly completed. Well 199-K-238 will operate as an extraction well northeast of the 105KE Reactor. Well 199-K-240 will initially operate as a monitoring near the 183.1KE Headhouse, but was constructed in a manner that it could function as an extraction well in the future.
- Remedial Actions & System Modifications:
 - Figures KR-3 through KR-5 present the monthly volume of groundwater treated and mass of hexavalent chromium removed through December 2019. The total mass removed for KW continues to be elevated as a result of the KW Soil Flushing Treatability test.
 - Figure KR-6 illustrates the monthly average pumping rates for operating extraction wells across the 100-KR-4 system.
 - The volume of groundwater treated and mass of Cr(VI) removed for the 100-K P&T systems (KX, KR-4, and KW) during November and December 2019 are:

Month	Gallons Treated (millions)	Hexavalent Chromium Removed (kg)
November	64	4.4
December	66	3.3

**100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
January 16, 2020**

- FY 2020 (October through December 2019) P&T performance to date:

P&T System	Treated (mgal)	Removed (kg)
KR4	35.1	0.2
KW	38.7	5.2
KX	118	6.7
Total	192	12.2

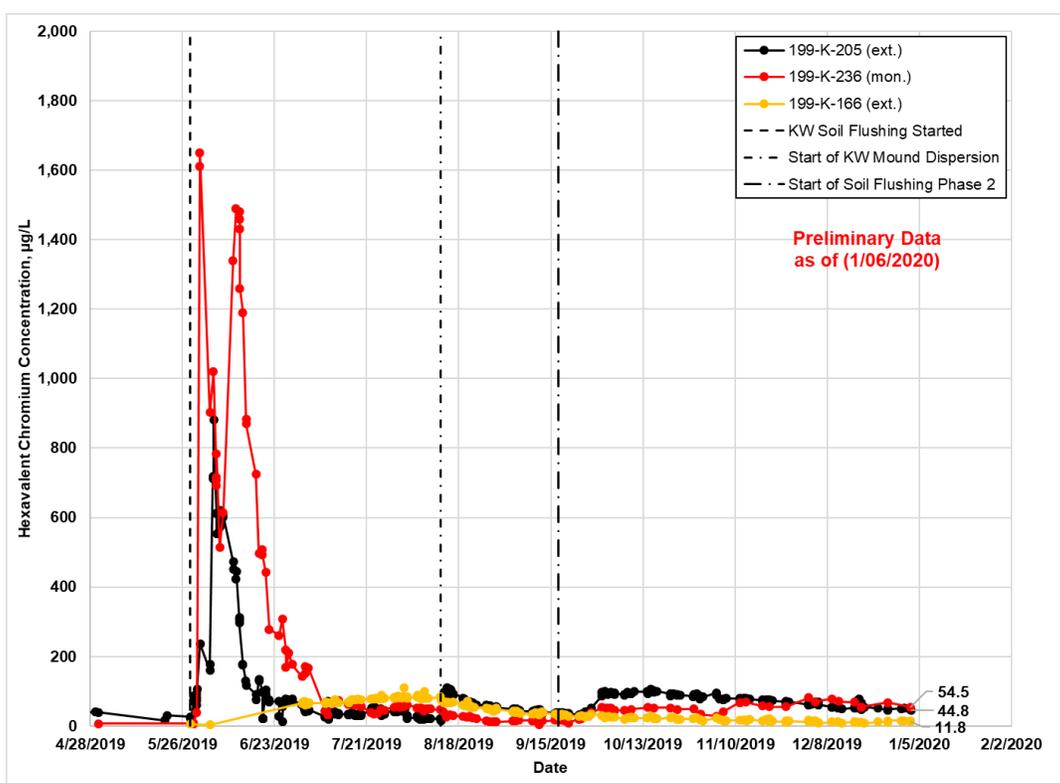


Figure KR-1. Observed Cr(VI) Concentrations during the KW Soil Flushing Treatability Test

**100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
January 16, 2020**

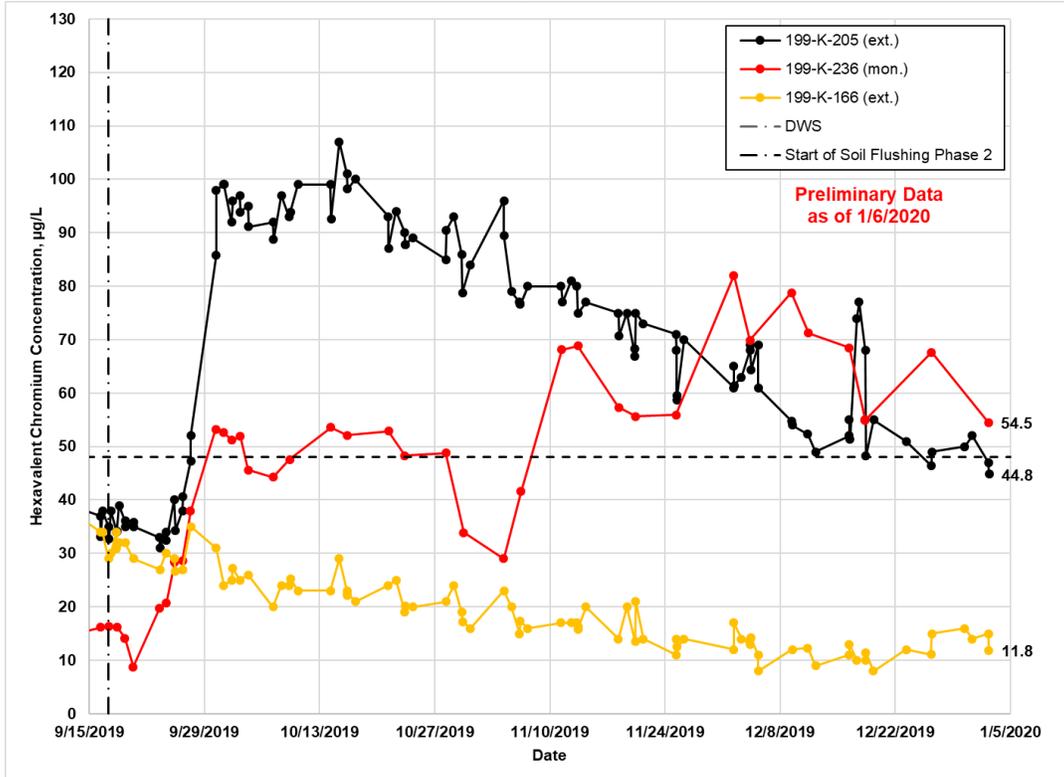


Figure KR-2. Observed Cr(VI) Concentration after September 17, 2019

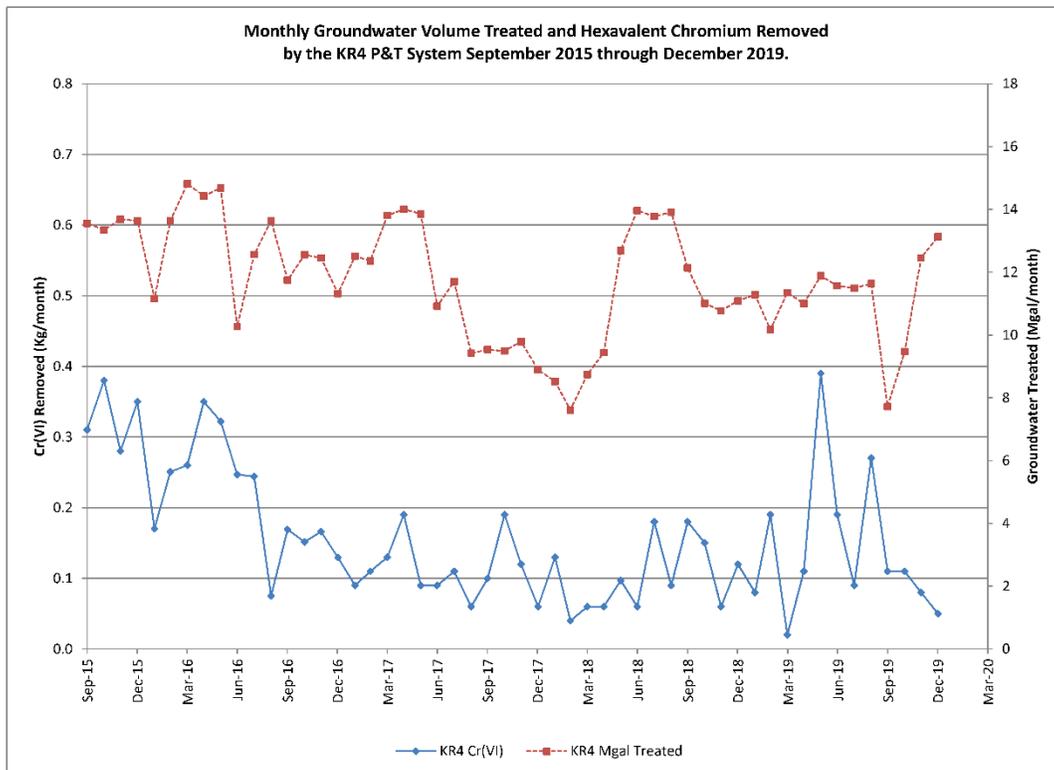


Figure KR-3. Monthly Cr(VI) Removed and Groundwater Volume Treated by KR4 P&T September 2015 through December 2019

**100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
January 16, 2020**

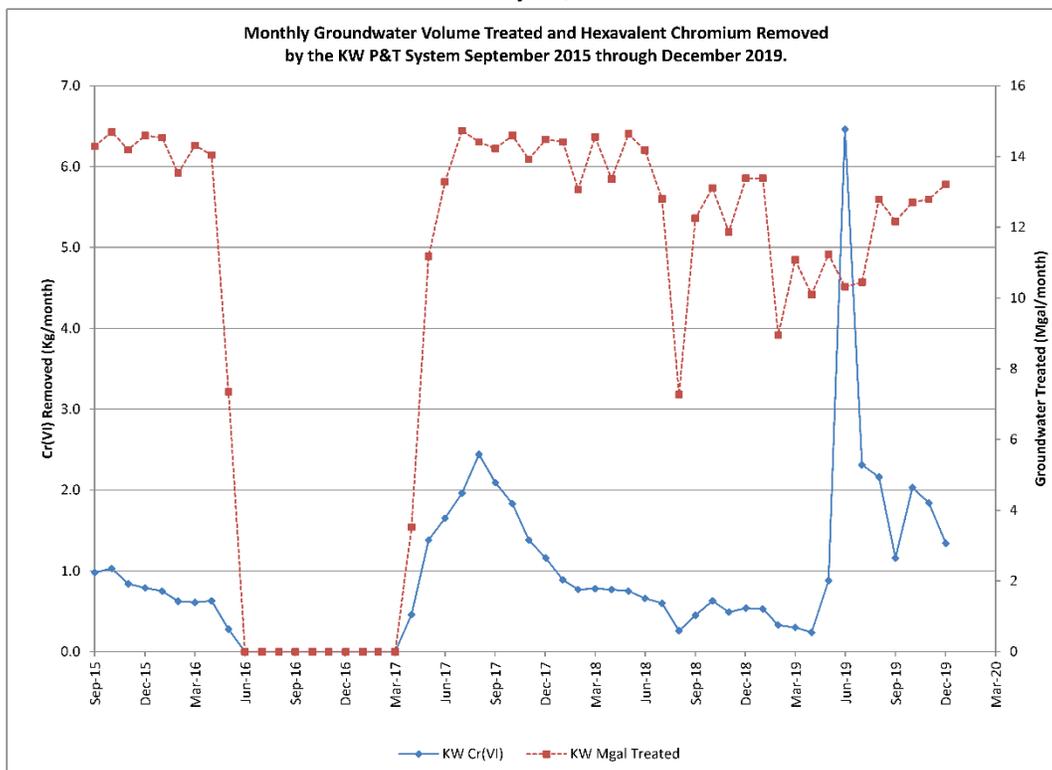


Figure KR-4. Monthly Cr(VI) Removed and Groundwater Volume Treated by KW P&T September 2015 through December 2019

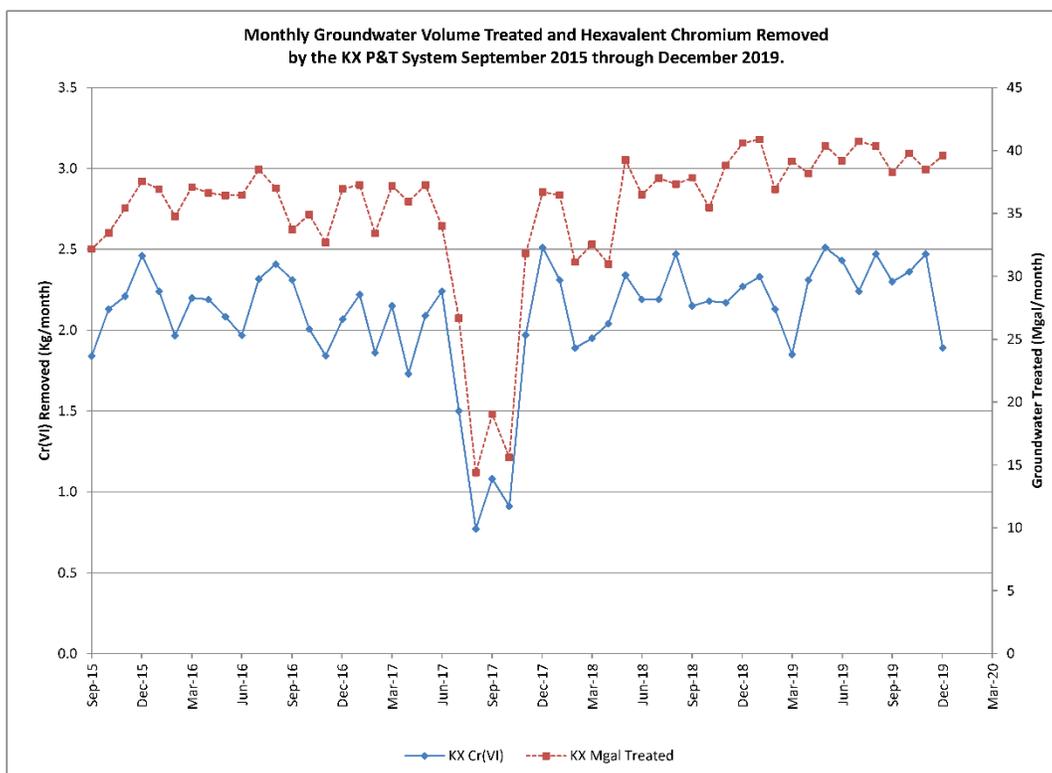


Figure KR-5. Monthly Cr(VI) removed and groundwater volume treated by KX P&T September 2015 through December 2019

**100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
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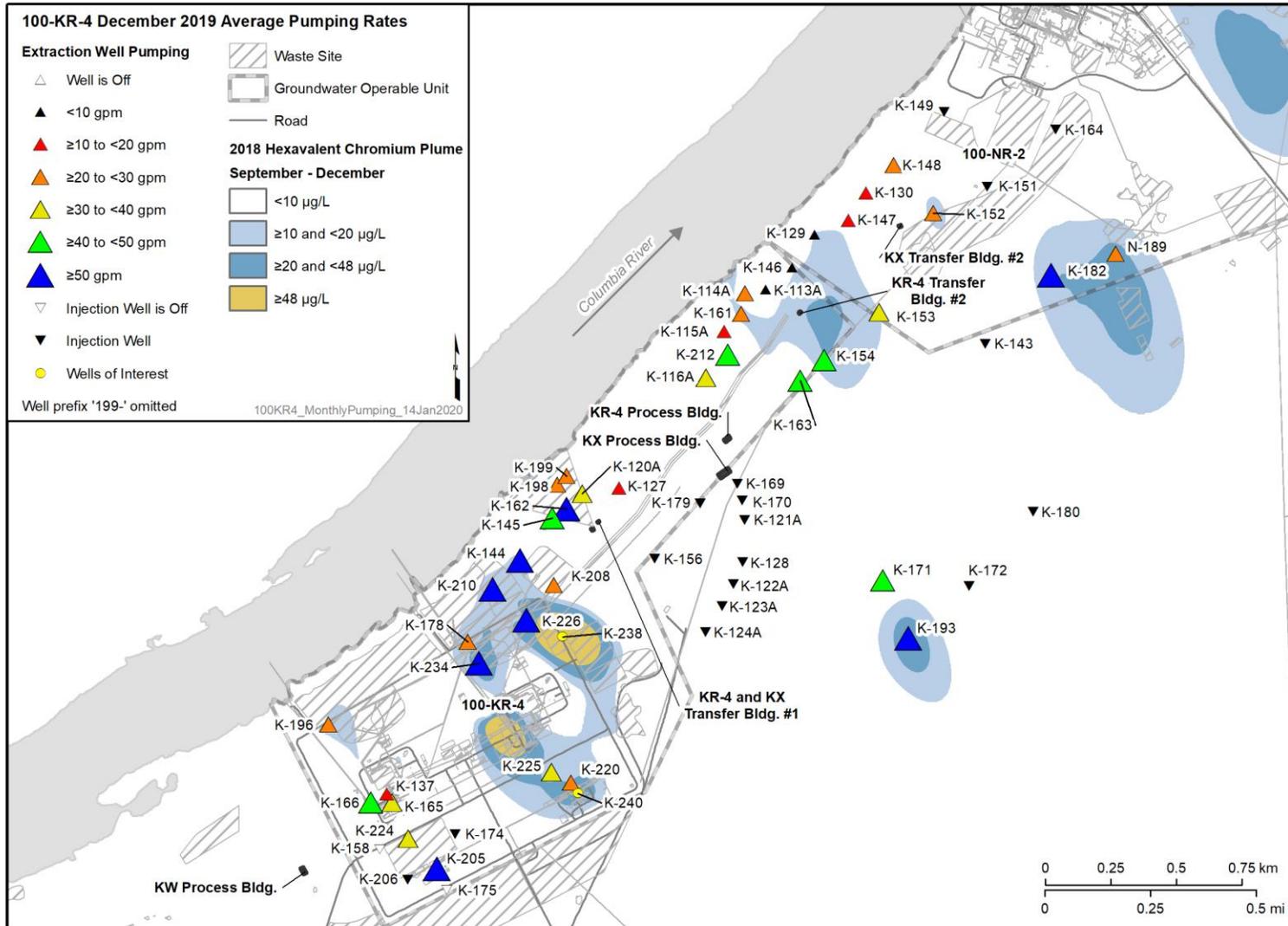


Figure KR-6. December 2019 Average Pumping Rates for the 100-KR-4 P&T System

Regulatory Agency Comments: None

100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
January 16, 2020
100-BC Area Groundwater Operable Unit

EPA Lead (RL – E. Glossbrenner, CHPRC – R. Evans, M. Hartman)

- CERCLA Process Implementation:
 - The 30-day public comment period for the Proposed Plan began October 7, 2019. A request to extend the original 30 day comment period was received and was extended 30-days to December 9, 2019, and has ended.
 - Preparation of the Record of Decision, including the responsiveness summary, is underway.
- Monitoring & Reporting:
 - Nothing new to report.

Regulatory Agency Comments: None

100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
January 16, 2020
100-N Area Operable Unit

Ecology Lead (RL – S. Balone, CHPRC – B. Faught, V. Rohay, A. Lee)

- CERCLA Process Implementation
 - A TPA CN is undergoing Ecology review for the 100-NR-2 RD/RAWP (DOE/RL-2001-27) which reflects changes in the PRB injection schedule. A draft of the TPA CN was provided to Ecology on June 28, 2018. Ecology provided verbal comments on August 28, 2019 for changes to align with schedule for issuance of the 100-N RI/FS and ROD. The draft TPA CN was updated to incorporate Ecology's verbal comments and provided for review on September 23, 2019.
 - The Draft B, 100-N RI/FS Report was transmitted on November 18, 2019 to Ecology for review. A kickoff meeting was held on November 21, 2019 to provide an overview of the Draft B, 100-N RI/FS. Ecology has submitted a review extension letter to extend review period through March 3, 2020.
- Remedial Actions:
 - The quarterly biovent vapor samples were collected on December 23, 2019 as scheduled. The next quarterly biovent vapor samples are scheduled for late March 2020.
 - The 2019 low river respirometry test was completed on November 19, 2019. The groundwater monitoring wells were sampled following completion of the test and the system was restarted on November 25, 2019. A test report is being prepared.
 - All comments to the draft biovent soil characterization SAP to collect characterization soil samples to evaluate the effectiveness of the bioventing system for remediating deep vadose zone TPH contamination were addressed and closed on December 23, 2019. Revision 0 of the SAP is being prepared to be routed for clearance.
 - Field work was completed for revegetation of the 100-N P&T and 1323-N Sample Shack sites on November 18, 2019. The sites were transferred to Land Stewardship for annual monitoring of revegetation success.
- Product Recovery:
 - The sorbent sponge assemblies in wells 199-N-18 and 199-N-183 were removed on October 13, 2019 to support the low river respirometry test. New sponge assemblies were installed on November 25, 2019, following the bioventing respirometry test. The sponge assemblies were changed out on December 31, 2019 with a total of 230 grams of product removed by the sponges.
- Monitoring and Reporting:
 - The next comprehensive sampling round of the 100-N groundwater monitoring wells and aquifer tubes is scheduled for June 2020.

Regulatory Agency Comments: None

100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
January 16, 2020
100-D/H Areas Groundwater Operable Unit

Ecology Lead (RL – J. Sands, CHPRC –R. Evans, K. Ivarson)

- CERCLA Process Implementation:
 - RL submitted a letter to Ecology on December 10, 2019, requesting an extension through March 31, 2020, to resolve Ecology's comments on the Draft A RD/RAWP. This extension was necessary because of a concern by RL Legal that Sampling and Analysis Plans are considered secondary documents per the Tri-Party Agreement and cannot be incorporated into the RD/RAWP. RL is working internally to resolve this issue.
 - Completed TPA-CN-1100 to DOE/RL-2013-35-ADD12, *100-HR-3 Groundwater Operable Unit Well Installation Sampling and Analysis Plan, Addendum 12: Wells 199-D11-1, 699-98-50, 699-95-48B, 699-96-42B, 199-H4-94, and 199-H3-14*, Rev. 0 on December 19, 2019.
- Monitoring & Reporting:
 - Well drilling activities for this fiscal year are scheduled to begin January 2020.
- Remedial Actions & System Modifications:
 - The volume of groundwater treated and mass of Cr(VI) removed from the 100-HR-3 P&T systems during November and December 2019 are:

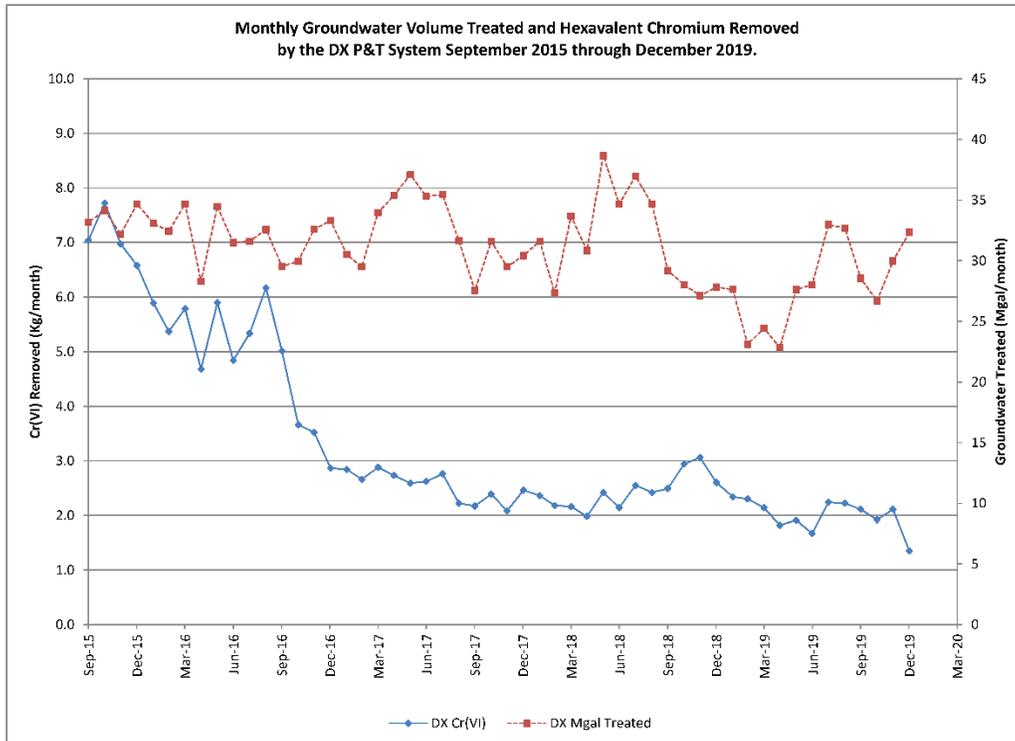
Month	Gallons Treated (in millions)	Hexavalent Chromium Removed (kg)
November	53	5.3
December	57	4.8

- FY 2020 (October through December 2019) P&T performance to date:

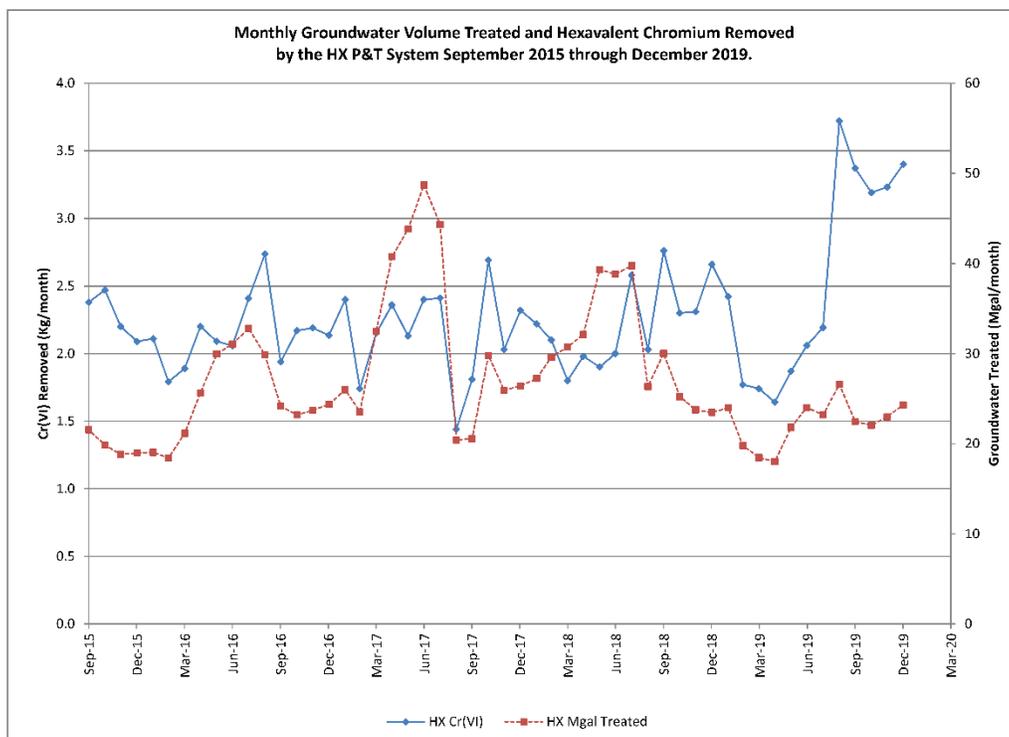
P&T System	Treated (mgal)	Removed (kg)
DX	89	5.4
HX	69	9.8
Total	16	15

- Figure HR-1 illustrates the monthly average pumping rates for operating extraction wells across the 100-HR-3 system.
- Summaries of the volume of groundwater extracted and treated for Cr(VI) at DX and HX P&T systems are shown in Figures HR-2 and HR-3, respectively.

**100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
January 16, 2020**



**Figure HR-2. Monthly Cr(VI) Removed and Groundwater Volume Treated by DX P&T,
September 2015 through December 2019**



**Figure HR-3. Monthly Cr(VI) Removed and Groundwater Volume Treated by HX P&T,
September 2015 through December 2019**

Regulatory Agency Comments: None

100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
January 16, 2020
100-F Area Groundwater Operable Unit

EPA Lead (RL – S. Balone, CHRPC – R. Evans, M. Hartman)

- CERCLA Process Implementation:
 - Nothing new to report.
- Monitoring & Reporting:
 - On November 18, 2019 EPA and RL signed TPA-CN-0874, which modifies the 100-F/IU Work Plan (DOE/RL-2014-44-ADD2). Changes to Appendix A (groundwater SAP) and Appendix C (waste management plan) incorporate new monitoring wells installed in 2019 and remove decommissioned boreholes. The change notice was placed in the Administrative Record.
 - In November 2019, CHPRC and RL met with EPA to discuss preliminary results of grab samples collected during drilling and development of a new monitoring wells. CHPRC also recommended reducing sampling frequency in all but one of the “phase 1” wells to annual as allowed in the SAP. EPA concurred. Phase 1 well 699-67-26 has variable concentrations of nitrate and will remain on a quarterly schedule.
 - Aquifer tube C6306 was not located when sampling was attempted in October 2019; the tube is likely broken off on the top of the well. Well maintenance will attempt again to locate it and perform repairs if possible. Seep 187-1 was not flowing this year, so sampling was not possible. All other wells and aquifer tubes were sampled as required in fall 2019.
 - All data from the comprehensive fall groundwater sampling event have been received and loaded into HEIS. October data from the new wells were consistent with the grab samples collected in August and summarized at the November 2019 UMM.
 - In October 2019, well samples were analyzed for stainless steel corrosion products. These constituents are not required by the CERCLA SAP. Wells 699-71-34 and 699-75-28 (see Figure FR-1 for locations) had not previously been sampled for these metals. Concentrations of total chromium were >10 µg/L in filtered and unfiltered samples (filtered results 11 ug/L in 699-75-28 and 20.5 ug/L in 699-71-34). The presence of dissolved chromium, and the lack of other corrosion indicators, suggests that this is Cr(VI). However, these wells are not located near the known Cr(VI) plume in the 100-F Area. Other wells south of the 100-F Area had chromium concentrations near or below the detection limit. The 100-FR-3 Cr(VI) cleanup level for inland areas is 48 ug/L. Total chromium will be included on the analyte list annually.

**100/300 Area Project Managers Meeting
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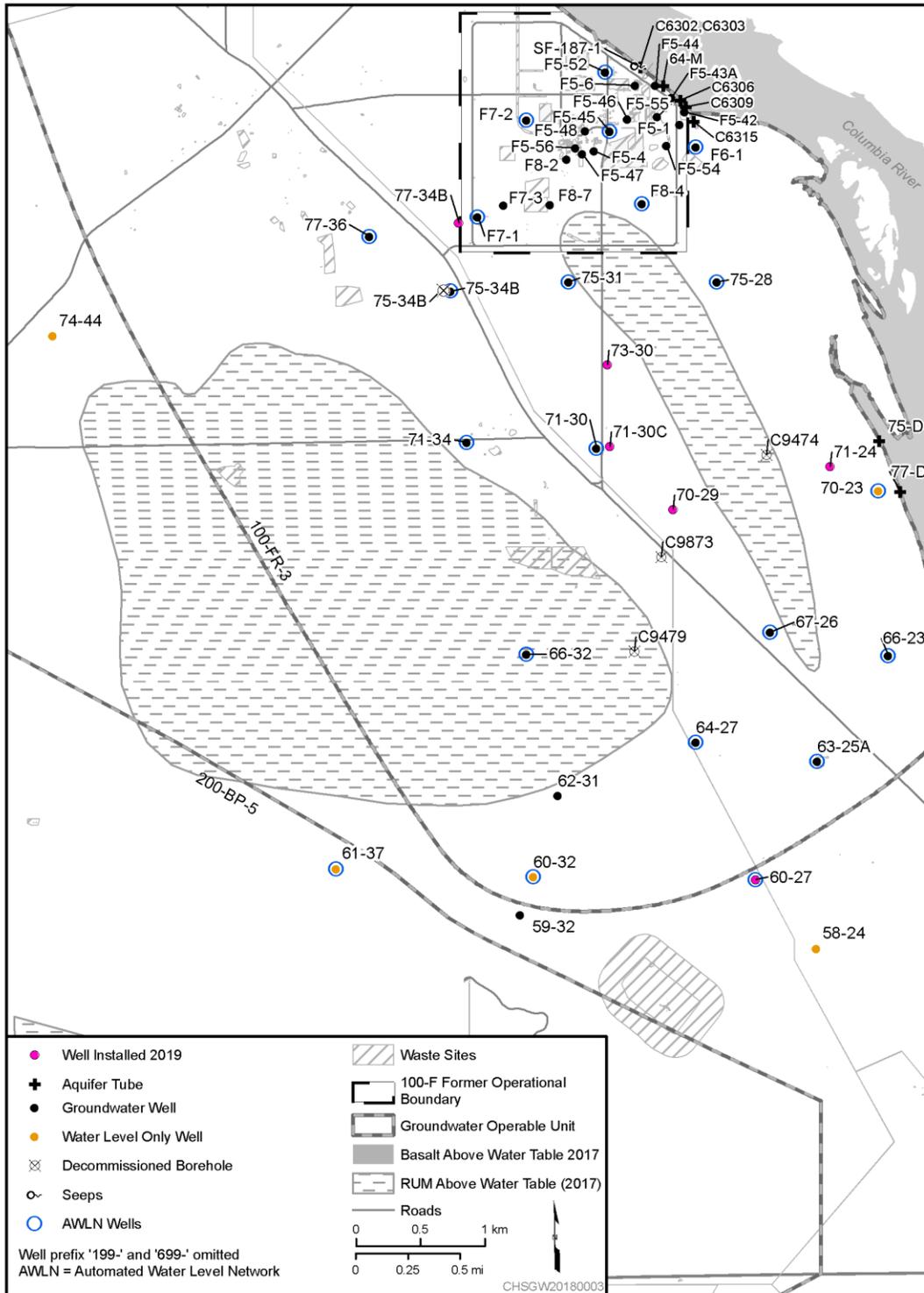


Figure FR-1. 100-FR-3 Groundwater Monitoring Network, Including New Monitoring Wells

Regulatory Agency Comments: None

100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
January 16, 2020
300 Area Groundwater Operable Unit

EPA Lead (RL – J. Sands, CHPRC – D. St. John, V. Rohay, E. Frohling)

- CERCLA Process Implementation:

Nothing new to report.

- Remedial Actions:

Nothing new to report.

- Monitoring & Reporting:

300 Area Industrial Complex

- All 21 CERCLA wells and one aquifer tube were sampled as planned in December 2019. The next CERCLA sampling event for long-term monitoring wells is scheduled for March 2020.
- Fifty-one AEA wells and 9 aquifer tubes were sampled as planned in December 2019. One well (399-6-5) was not sampled because the pump tripped the breaker. One aquifer tube (AT-3-5-S) could not be sampled because neither this aquifer tube nor AT-3-5-M was found at this location. Aquifer tube AT-3-4-D was sampled instead. The next AEA sampling event is scheduled for March 2020.
- Quarterly sampling began in October 2019 for the groundwater monitoring wells (399-4-16 and 399-4-15) downgradient of the 324 Building. The only radionuclide detected in the October 2019 samples was metallic uranium, which is expected based on the existing uranium groundwater inventory and groundwater plume(s). The other radionuclides analyzed in the samples were Am-241, Pu-238, Pu-239/240, Cs-137, Co-60, and Sr-90. The next samples are scheduled for January 2020.
- Twenty six uranium fate and transport model calibration wells were sampled as planned in December 2019. One well (399-6-5) could not be sampled, the next CERCLA sampling event for uranium fate and transport model calibration is scheduled for June 2020.

618-10 Burial Ground/316-4 Crib

- All 5 CERCLA wells were sampled as scheduled in November 2019. Sampling was initiated at new well 699-S6-E3B, which is the replacement for decommissioned well 699-S6-E4L at the 618-10 Burial Ground. The uranium concentration exceeded the cleanup level (30 µg/L) at well 699-S6-E3B only, where the concentration (37 µg/L) was comparable to the two most recent (December 2014 and March 2015) concentrations (28.4 and 36.3 µg/L) measured in well 699-S6-E4L. The next CERCLA sampling event is scheduled for February 2020.
- All 6 AEA wells were sampled as scheduled in November 2019. The next AEA sampling event at 618-10/316-4 wells is scheduled for May 2020.

618-11 Burial Ground

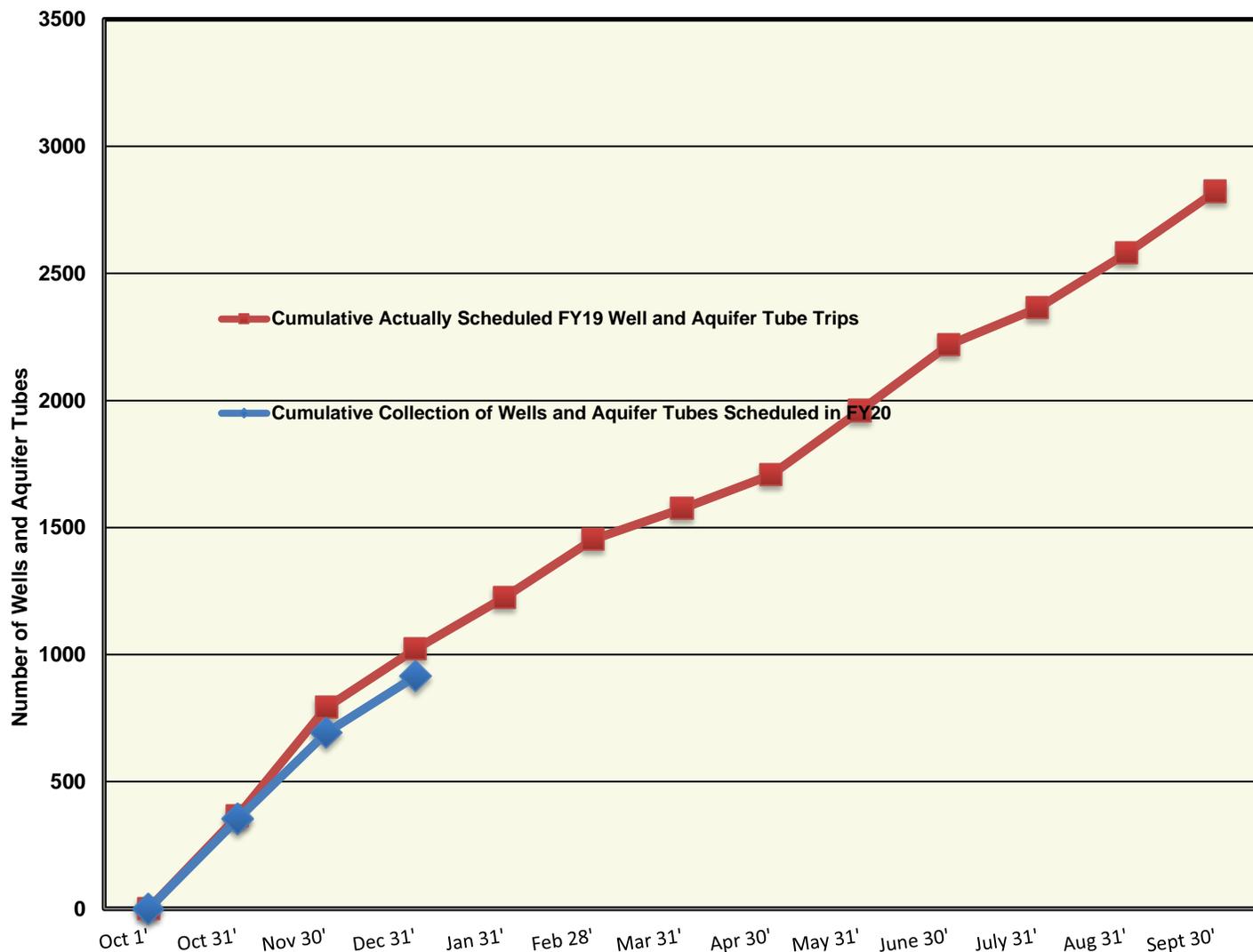
- All 5 CERCLA wells scheduled for sampling in October 2019 were sampled in November 2019 (4 wells) and December 2019 (1 well). The highest tritium concentrations (>200,000 pCi/L) were measured at the two wells closest to the east and downgradient of the 618-11 Burial Ground source. The CERCLA wells are monitored every other year, and the next CERCLA sampling event is scheduled for October 2021.
- All 6 AEA wells scheduled for sampling in October 2019 were sampled in November (5 wells) and December 2019 (1 well). The next AEA sampling event is scheduled for January 2020.

300 Area Process Trenches (316-5) RCRA Monitoring

Nothing new to report.

Regulatory Agency Comments: None

**100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
January 16, 2020
Hanford Annual Groundwater Sampling Program Performance
Results for Samples Completed versus Sample Scheduled**



FY 2020 Cumulative Well + Aquifer Tube Collection Progress vs Schedule

**100/300 Area Project Managers Meeting
Groundwater Summary by OU (November - December 2019 Data)
January 16, 2020**

Documents Submitted to the AR

Document Number	Document Title	Referencing Document
ECF-100HR3-19-0115	New Source Review for the 100-HX and 100-DX Pump and Treat Facilities in the 100-HR-3 Operable Unit	DOE/RL-2017-13
SGW-63998_R0	Borehole Summary Report for the Installation of Six Wells and Two Boreholes in the 100-FR-3 Operable Unit, FY2019	DOE/RL-2019-66
ECF-100HR3-19-0105_R0	Ion Balance Calculations for Groundwater at the 100-HR-3 Operable Unit	SGW-64254_R0
SGW-63885_R0	KW Soil Flushing Treatability Test Effectiveness Assessment and Recommendations	SGW-64284_R0

Approved Change Notices

Document Number	Document Title
TPA-CN-0874	DOE/RL-2014-44-ADD2, Remedial Design Report Remedial Action Work Plan Addendum for the 100-F/IU Groundwater
TPA-CN-1100	DOE/RL-2013-35-ADD12 is amended to correct laboratory analytical details in tables, and clarify the soil sample collection to allow the use of bags, sleeves, or Lexan liners for a continuous sample.
TPA-CN-872	TPA Change Notice 872 was approved on January 8, 2020. This Change Notice adds tasks to the RI Work Plan to include additional ecological risk assessment and describes the FS. A FS Work Plan is no longer required.

TPA Compliance Note:

The DOE Project Managers have identified no outstanding issues with the preceding month's Environmental Performance Report for this scope.

**100-OL-1 Operable Unit Report
100/300 Area Unit Manager Meeting
January 16, 2020**

100-OL-1 OU Scope

• **Interim Milestone M-015-97**, Change Number M-15-19-01, Lead Regulatory Agency: Ecology

- Submit to Ecology the 100-OL-1 Operable Unit Feasibility Study Report, Draft A.
- Due Date: 08/30/2020.

• **Background**

100-OL-1 OU covers 4,995 acres across the River Corridor, incorporating lands where former orchards used lead arsenate pesticide (Figure 1). Lead arsenate was the standard pesticide for controlling codling moths in many fruit trees from the 1890s through 1988. Some waste sites in the 100 Area contain relatively high lead and arsenic concentrations near the soil surface. 100-OL-1 OU was divided into 133 decision units (DUs) for the evaluation of lead and arsenic in the surface soils using a portable x-ray fluorescence (XRF) analyzer. The Remedial Investigation found:

- There are 83 DUs (3,056 acres) that need no further action because the nature and extent of lead and arsenic soil concentrations in the DUs do not meet or exceed any criteria of the “3 part rule” (WAC 173-340-740(7)) for human health or ecological screening levels.
- There are 9 DUs (362 acres) that do not meet or exceed any criteria of the “3 part rule” for the human health screening levels, but exceed ecological screening levels.
- There are 41 DUs (1,578 acres) that meet or exceed some criteria of the “3 part rule” for the human health screening levels.

• **Status**

On-going comment resolution of *Remedial Investigation for the 100-OL-1 Operable Unit Hanford Orchard Lands* (DOE/RL-2016-54, Draft A). Comments from Ecology were received in May 2018. All comments are either dispositioned or have a path is set for disposition.

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100-OL-1 Operable Unit Report
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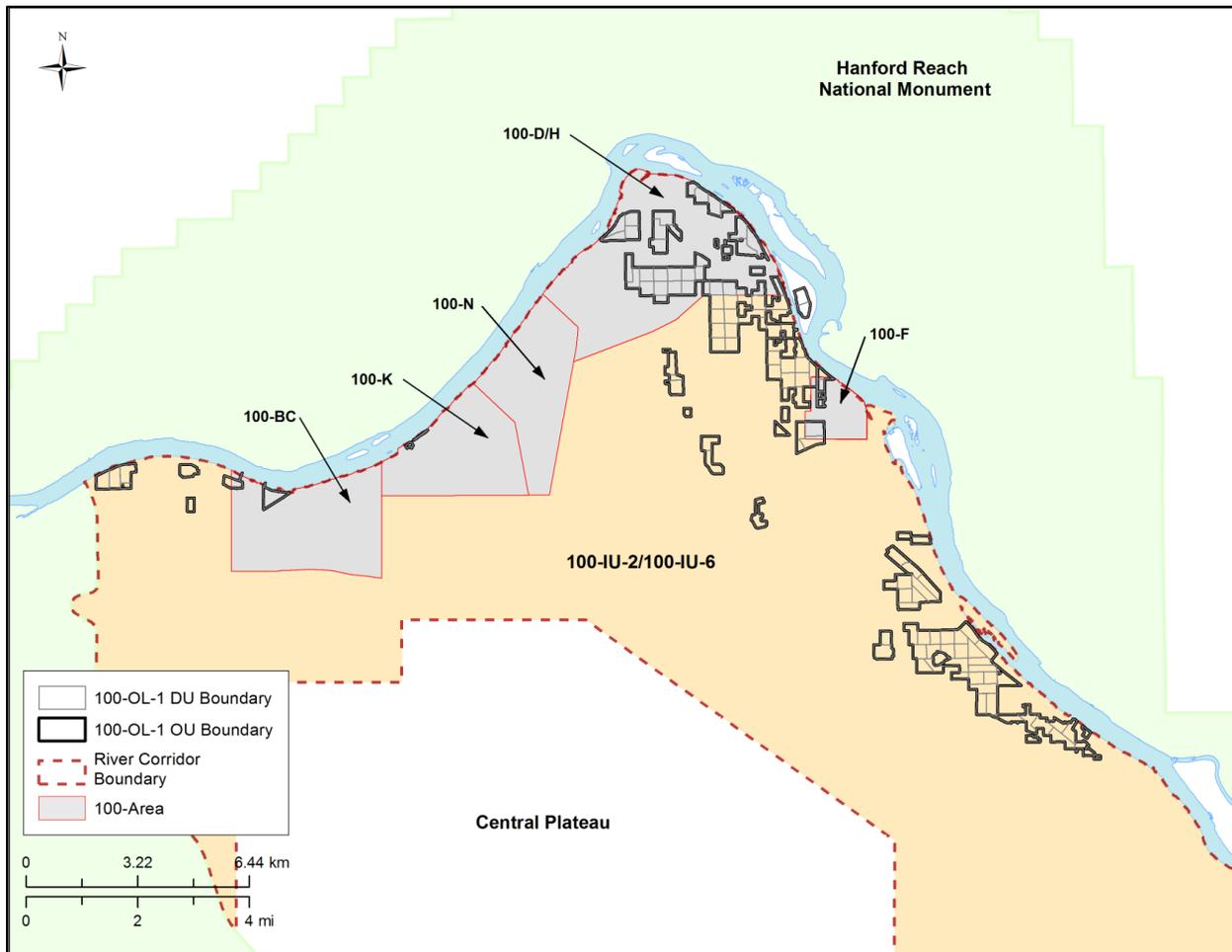


Figure 1. The 100-OL-1 OU and Associated Decision Units across the Hanford Site River Corridor

100/300 Area UMM
 Action Items List
 January 16, 2020

CHPRC-2000279
 ATTACHMENT 9

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	186	CHPRC	Bill Faught	100-N	Provide to RL recent photos of 100-N project for December 4th meeting	Time did not allow