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DISTRIBUTION
100 & 300 AREA UNIT MANAGERS MEETING
March 09, 2017

DOE/RL
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EPA

Craig Cameron	A3-46

Ecology

Nina Menard	H0-57

CHPRC

Gretchen Hanson (original)	R3-50

Administrative Record (2)	H6-08
Correspondence Control	H7-08

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MAR 30 2017
EDMC

100 & 300 Area Unit Manager Meeting
Attachments List
March 09, 2017

Attachment	**1**	**Attachments List**
Attachment	**2**	**Agenda**
Attachment	**3**	**Attendee Sign In**
Attachment	**4**	**Signature Page**
Attachment	**5**	**Action Items**
Attachment	**6**	**100K Area Report**
Attachment	**7**	**Summary Hanford Sampling Program**
Attachment	**8**	**TPA Change Notices**

100/300 Area Unit Manager Meeting
March 9, 2017
Federal Building
825 Jadwin
Richland 99354
Room 540N 2:00 p.m.

Administrative:

- Approval and signing of previous meeting minutes
- Update to Action Items List
- Next UMM (05/11/2017)- TBD

Special Topics

- None

Open Session: Project Area Updates - Groundwater, Field Remediation, D4/ISS:

- 100-OL-1 - Orchard Lands (John Sands)
- 300 Area - 618-10/11 (Ellwood Glossbrenner, John Neath)
- 100-K Area Soils(Rudy Guercia, Steve Balone)
- 100-K Area Groundwater (Rudy Guercia, Steve Balone)
- 100-B/C Area (Ellen Dagan)
- 100-N Area (John Sands, John Neath)
- 100-D & 100-H Areas (Steve Balone/Ellen Dagan, John Neath)
- 100-F & 100-IU-2/6 Areas (Steve Balone, John Neath)
- 300 Area (John Sands, Rudy Guercia)

Other

- CERCLA Five Year Review (Greg Berlin)
- Updated meeting notices will be sent out following the meeting. A change of location is required, all subsequent meeting locations will be changed to 2420 Stevens Center, to be reflected in the updated meeting notice.

Closing Comments (all)

- N/A

Adjourn

100/300 AREA UNIT MANAGER MEETING

March 9, 2017 Attendees

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100/300 UNIT MANAGERS MEETING
APPROVAL OF MEETING MINUTES

January 12, 2017 /March 09, 2017

APPROVAL: _____ **DATE:** 3/9/17
Mark French, DOE/RL (A3-04)
River Corridor Project Manager

APPROVAL: Steve Balone, for **DATE:** 3/9/17
Michael Cline, DOE/RL (A5-11)
Groundwater Project Manager

APPROVAL: _____ **DATE:** 3/9/17
Nina Menard, Ecology (H0-57)
Environmental Restoration Project Manager

APPROVAL: _____ **DATE:** 3/20/17
Laura Buelow or Rod Lobos, EPA (A3-46)
100 Area Project Manager

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.

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-174	CHPRC	Bill Faught	100-N	N. Menard requested update and status of aquifer tube sampling upon receipt of sampling results and 2016 PRB performance. Action: aquifer tube data is currently reported monthly.	Open: 9/8/16 11/3/2016: Update - Information provided in Annual P&T report. Presentation on Permeable Reactive Barrier performance will be given at January UMM. Update - Add the remainder of the aquifer data to the groundwater monitoring report. Jan 2017 Update: Priorites shifted, ad presentation will be given at March UMM. Closed January 12, 2017

100K Area Report
100/300 Area Unit Manager Meeting
March 9, 2017

RL-0012 Sludge Treatment Project

TPA Milestone **M-016-177**, *Complete 105-KW sludge transfer equipment installation.* **(9/30/17)** – On Schedule

- **Equipment Procurement/Fabrication**
  - Procurement Set #9 – Initiated procurement of materials necessary to facilitate fabrication of the Sludge Transportation System (STS) Cask Leak Test Tool. A control panel will be installed in the Annex to test cask leak tight integrity prior to shipment to T Plant.
  - Delivered two Sludge Transport and Storage Containers to 100K Area that were subsequently installed in the STS Cask and prepared for Construction Acceptance Testing at the 105K West Annex and T Plant.
- **MASF Preoperational Acceptance Testing (MPAT)**
  - Test is 100% Complete as of August 11, 2016
  - The Test Report was approved by the Sludge Treatment Project Joint Test Group on January 31, 2017, however, comment incorporation and issuance has been given a lower priority than development and approval of K Basin Pre-operational Acceptance Test (KPAT) Specifications/Procedures. The MPAT Test Report is forecast to complete in April, 2017
- **Construction**
  - **Annex**
    - Completed installation of Truck Scale (including ledger plates and instrument calibration).
    - Completed trailer bumper pad installation along with shielded cave on bumper and Mezzanine grating.
    - Completed connection of ECRTS Process hoses to STSC.
    - Completed final tie-ins and ECRTS electrical panel power-up.
    - Completed air dryer exhaust modification and continued installation of supplemental cooling system in the mechanical room.
    - Final positioned and secured Nitrogen System bottle racks.
    - Performed final welds and tie-in for Nitrogen System.
    - Completed nitrogen system high-pressure leak test.
    - Completed Albi Clad and touch-up painting in loading bay.
- **In-Basin Construction**
  - Set continuous air monitors in the Basin and completed final terminations of RAD Monitoring power and communication cabling.
  - Completed installing new tagging on XAGO Pump Skid.
  - Completed relocation of PNL-107.

- Completed continuity and megger testing to support CAT's.
- Removed scaffolding that supported electrical installation and started demobilization efforts.

TPA Milestone **M-016-175**, *Begin sludge removal from 105-KW Fuel Storage Basin* **(9/30/18)** – On Schedule

- Formally submitted the 105KW Basin Documented Safety Analysis and Technical Safety Requirement documents to DOE RL for review & approval. These documents combined the ECRTS PDSA R2 and the current KW Basin safety basis documents into an integrated safety basis set. DOE RL comments have been subsequently been incorporated and CHPRC personnel are working with the DOE RL staff for resolution concurrence. Approval of these documents by DOE-RL is forecast in April, 2017.
- Completed development of the One Time Request for Shipment (OTRS) that will be used for shipping the sludge from 100K Area to T Plant and formally submitted this document to DOE RL for review/approval. Approval of this document is forecast in July, 2017.
- Continued development of Training Lesson Guides and Exam Banks.
- Continued ECRTS Subject Matter Expert (SME) familiarization activities at MASF.
- Continued to develop ECRTS operations, radiation protection, and maintenance procedures
- Advanced 100K Area Readiness Activities
  - ARP and RSAs are complete with formal approval forecast in March, 2017.
  - Completed development of the Plan of Action (POA). POA will be approved by management in March, 2017.
- Completed installation and testing of Electrical, Water Addition, and sludge storage hardware at T Plant
- Commenced installation of Nitrogen Purge System. Completion of Construction Acceptance Testing is forecast in May, 2017.
- Advanced T Plant Readiness Activities
  - Completed development of ARP and the majority of RSAs - formal approval forecast in March, 2017
  - Prepared POA, obtained internal review/comments, and are incorporating comments. Formal CHPRC approval is forecast in April, 2017.

TPA Milestone **M-016-176**, *Complete sludge removal from 105-KW Fuel Storage Basin* **(12/31/19)** – On Schedule

- Initiation of this milestone follows completion of Milestone M-016-175

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

- DOE/RL-2011-15, *Remedial Design/ Remedial Action Work Plan for the K Basins Interim Remedial Action: Treatment and Packaging of K Basins Sludge* was revised to include specific provisions for the safe storage of sludge at T-Plant.

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)** – On Schedule

- **100-K AB Waste Site Area**
  - Conducted verification sampling of waste sites 100-K-25, 100-K-27, 100-K-35, 100-K-50, 100-K-79, 100-K-98, 100-K-101, 120-KE-1, 120-KE-2, 120-KE-3, 120-KE-4, 120-KE-5, 120-KE-6, 120-KE-9, 100-K-14, 126-KE-2, and 1607-K2
  - Provided Remediation Site Verification Package for waste sites 126-KE-2, 100-K-14, 100-K-50 and 1607-K2 to EPA for approval

- **100-K AF Waste Site Area**
- Completed excavation of waste site 100-K-103 and conducted in-process sampling upon completion of excavation

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) - On Schedule

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) - On Schedule

TPA Milestone **M-016-00C**, *Complete all response actions for the 100 K Area*
(9/30/24) - On Schedule

TPA Milestone **M-016-178**, *Initiate deactivation of 105-KW Fuel Storage Basin.*
(12/31/19) – On Schedule

- Below-water debris characterization is on-hold awaiting contract direction from RL.

TPA Milestone **M-016-181**, *Complete deactivation, demolition and removal of 105-KW Fuel Storage Basin* **(9/30/23)** – On Schedule

- Review of the Basis of Estimate (BOE) for the draft 105-K West Fuel Storage Basin deactivation and demolition long-range plan by CHPRC estimating and program support continues. When the review is complete and comments resolved, the BOE, work breakdown structure (WBS) dictionary, and project schedule will be uploaded to the CHPRC Long Range Plan (LRP) file (TPA-M-16-178 and TPA-M-16-181).
- A gamma spectrometer to be used for K West Basin below-water characterization has been ordered and is expected to arrive in mid-April

TPA Milestone **M-016-186**, Initiate soil remediation under the 105-KW Fuel Storage Basin.
(12/31/23) – On Schedule

300 Area Demolition and Soil Remediation

TPA Milestone **M-016-85A**, *Complete remote excavation of the 300-296 waste site in accordance with an approved RD/RA Work Plan.*

300-296 Soil Remediation Activity:

- The procurement process was initiated for the three main soil removal systems (Remote Excavation Arm System, Cameras and Lighting System, and the Transfer Mechanism System) that will be installed in the mockup to validate system performance and support crew training activities in the future.
- The concrete was placed for the floor saw test pad and the completion of the floor saw and test planning continues to progress towards the start of the floor saw test in late March / early April.
- The Radiochemical Engineering Complex (REC) Airlock door was operated to confirm performance, and 324 building hot cell procedures are being revised, to support the start of activities for the cleanout of REC Airlock and cells.
- Training and qualifications for the facility team supporting the cleanout are progressing on schedule to support an initial Airlock entry in late March / early April.
- The design for structural reinforcement of the 324 building continues to progress in accordance with the schedule.

Summary Hanford Sampling Program

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.

FY 2016 Sample Trip Status by Month Scheduled

For Fiscal Year 2016 Hanford's overall Site groundwater monitoring program has 2,810 sample trips scheduled for collection. Prior to January 2017 the program had successfully completed 2798 of the FY 2016 sample trips. No additional FY 2016 sample trips were collected in January or February 2017.

FY 2017 Sample Trip Status by Month Scheduled (January and February 2017)

For Fiscal Year 2017 Hanford's overall Site groundwater monitoring program has 2,644 sample trips scheduled for collection.

During January 2017 (FY 2017, month four) the program successfully completed 31 sample trips scheduled for December 2016 and 139 sample trips scheduled for January 2017. This brings the total of December 2016 sample trips completed to 235 of 251 scheduled and the total of January 2017 sample trips to be completed to 139 of 237 scheduled.

During February 2017 (FY 2017, month five) the program successfully completed 51 sample trips scheduled for January 2017 and 147 sample trips scheduled for February. This brings the total of January 2017 sample trips completed to 190 of 237 and the total of February 2017 sample trips completed to 147 of 182 scheduled.

The total number of Fiscal Year 2017 sample trips completed at the end of February 2017 is 1,207.

FY 2017 Sample Trip Status by Month Collected (January and February 2017)

During January 2017, 170 Fiscal Year 2017 sample trips were successfully completed of which 31 were scheduled for December 2016 and 139 were scheduled for January 2017.

During February 2017, 198 Fiscal Year 2017 sample trips were successfully completed of which 51 were scheduled for January 2017 and 147 were scheduled for February 2017.

The specific wells, aquifer tubes, and springs sampled in the river corridor areas during January 2017 are listed in Table 1. The specific wells, aquifer tubes, and springs sampled in the river corridor areas during February 2017 are listed in Table 2.

Awaiting Sample Trips

Of the Fiscal Year 2016 and 2017 sample trips scheduled for February 2017 and prior, there are 140 that are awaiting collection. Of these, 1 requires maintenance, 13 are being reviewed for cancelation, 8 were unsuccessful, 11 are part of a special study and have an adjusted schedule, and 107 are awaiting collection at the month end.

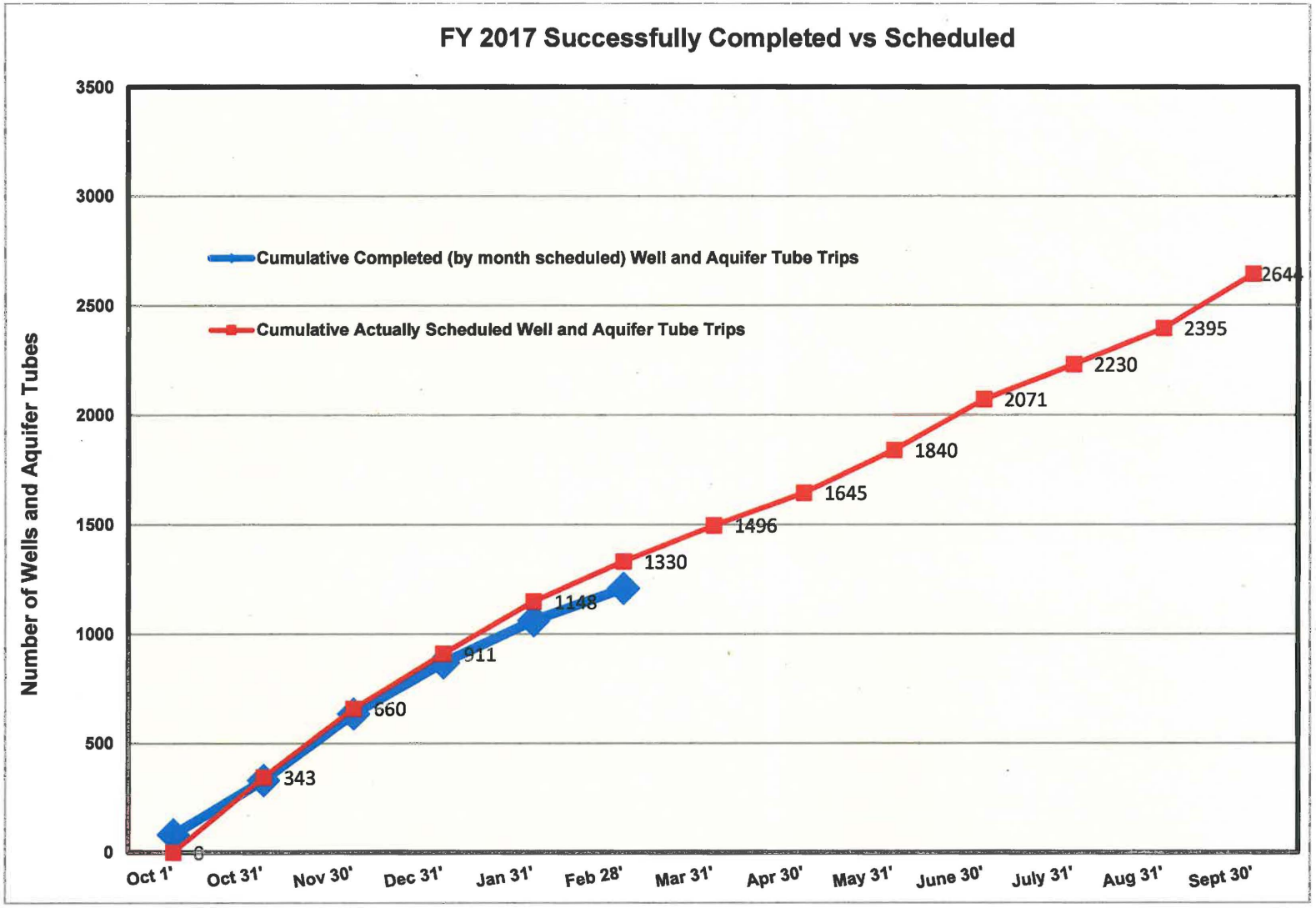
Table 3 presents the sample trips for only the river corridor that were not successfully completed as of February. Sample trips in Table 2 are grouped by fiscal month scheduled and groundwater interest area. This table clearly shows that the number of awaiting well trips decreases with time from the 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 river corridor only, scheduled for collection in March 2017 and April 2017 (and not collected before the target sample month) are listed in Table 4 and Table 5 respectively.

Data Access

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


FY 2017 Successfully Completed vs Scheduled
Number of Wells and Aquifer Tubes
3500
3000
2500
2000
1500
1000
500
0
Cumulative Completed (by month scheduled) Well and Aquifer Tube Trips
Cumulative Actually Scheduled Well and Aquifer Tube Trips
0
343
660
911
1148
1330
1496
1645
1840
2071
2230
2395
2644
Oct 1'
Oct 31'
Nov 30'
Dec 31'
Jan 31'
Feb 28'
Mar 31'
Apr 30'
May 31'
June 30'
July 31'
Aug 31'
Sept 30'

Operable Unit Specifics

100-KR-4 Groundwater Operable Unit (Mike Drewett/Jason Hulstrom)

- CERCLA Process Implementation:
  - ✓ The RI/FS and PP re-write decision document process was restarted in February 2017.
  - ✓ The KW pump and treat system was shut down on May 16, 2016 to start the rebound study. Sampling began the first week of June and will continue through the end of March 2017 and the data is being evaluating to access potential system re-start.
- Remedial Actions & System Modifications:
  - ✓ The volume of groundwater treated and mass of Cr(VI) removed for the 100-K P&T systems (KX, KR-4, and KW) during January and February are:

Month	Gallons Treated (mgal)	Hexavalent Chromium Removed (kg)
January	49.8	2.3
February	45.8	2.0

  - ✓ FY 2017 (October. 2016 through February. 2017) P&T performance to date:

P&T System	Treated (mgal)	Removed (kg)
KR-4	61.2	0.60
KW	0	0
KX	175	10.0
Total	236	10.6

  - ✓ The influent and effluent Cr(VI) concentrations (measured weekly) for the three 100-K P&T systems during January and February are presented in Table K-1.

Table K-1. Monthly Summary of Influent and Effluent Concentrations at the 100-KR-4 P&T Systems

System	Month	Weekly Influent Concentrations[a] (µg/L)	Average Monthly Influent Concentration (µg/L)	Weekly Effluent Concentrations[ab] (µg/L)	Average Monthly Effluent Concentration[b] (µg/L)
100-KR4	January	2, 2, 3	2	-1, 0, -2	-1
	February	3, 2, 2, 3, 2	2	-1, 0, 0, 0, 0	0

Table K-1. Monthly Summary of Influent and Effluent Concentrations at the 100-KR-4 P&T Systems

System	Month	Weekly Influent Concentrations[a] (µg/L)	Average Monthly Influent Concentration (µg/L)	Weekly Effluent Concentrations[ab] (µg/L)	Average Monthly Effluent Concentration[b] (µg/L)
100-KW[c]	January	--	--	--	--
	February	--	--	--	--
100-KX	January	18, 16, 19, 15	17	-1, 3, 2, 1	1
	February	16, 16	16	1, 0	0.5

Concentrations provided represent samples taken during the current month and loaded into HEIS as of the publication of the UMM.

Concentrations reported are below detection and represent the actual instrument reading on the sample(s). The detection limit is approximately 2 µg/L hexavalent chromium. The negative readings indicate that the measured concentration is indistinguishable from the blank.

The 100-KW P&T System was shutdown May 16, 2016 to initiate the rebound study

- ✓ In January 2017, the average pumping rates were 281, 0, and 835 gpm for the KR-4, KW, and KX systems, respectively. A summary of the number of extraction and injection wells in the three systems is shown in Table K-2.
- ✓ In February 2017, the average pumping rates were 307, 0, and 828 gpm for the KR-4, KW, and KX systems, respectively. Figure K-2 illustrates the monthly average pumping rates for operating extraction wells across the 100-KR-4 system.
- ✓ Figures K-3 through K-5 present the monthly volume of groundwater treated and mass of hexavalent chromium removed though February 2017.

Table K-2. Summary of Number of System Extraction and Injection Wells

Wells	KR4		KX		KW		TOTAL	
	2015	2016	2015	2016	2015	2016	2017 Plan	Current
Number of extraction wells	12	11	19	21	11	11 (off)	42	42
Number of injection wells	5	5	9	10	4	4 (off)	18	19

Note: KW system off for entire month of June

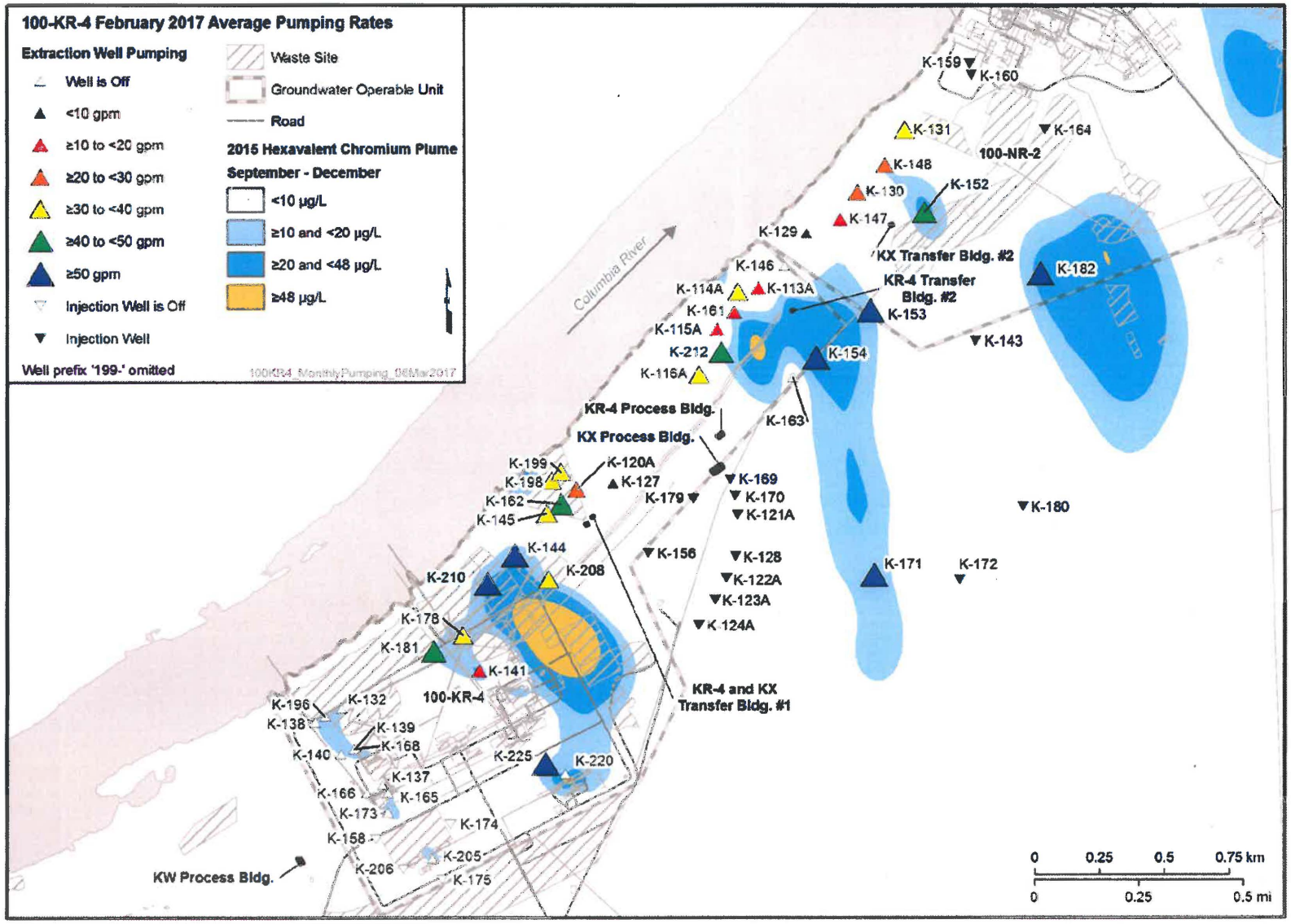


Figure K-2. February 2017 Average Pumping Rates for the 100-KR-4 P&T System

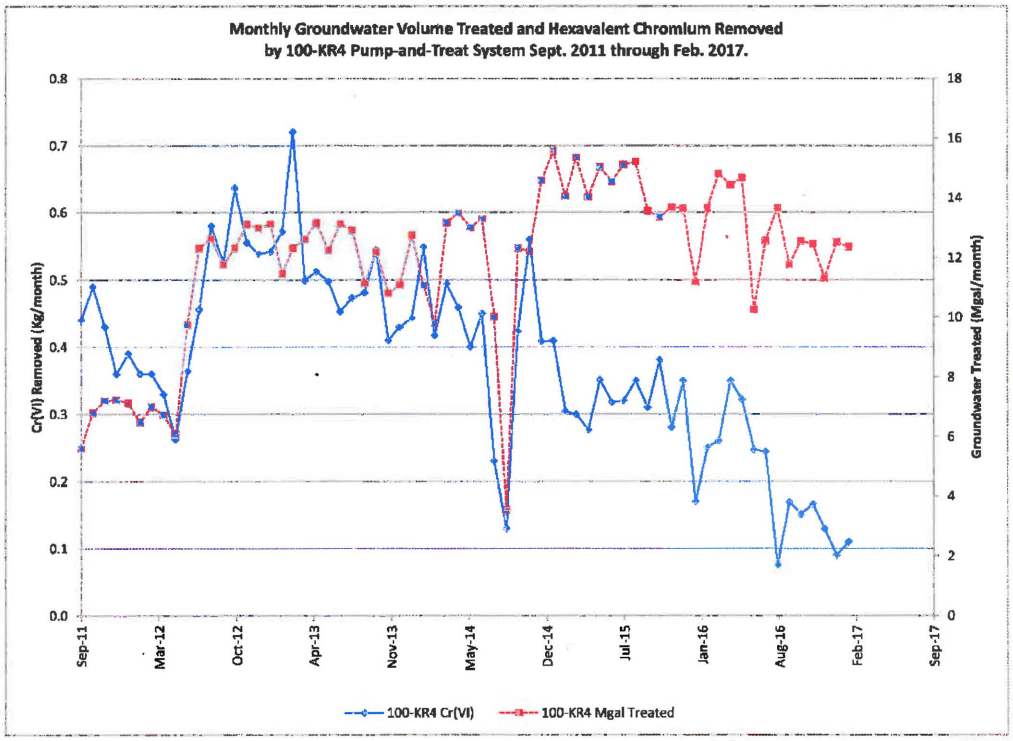


Figure K-3. Monthly Cr(VI) Removed and Groundwater Volume Treated by 100-KR-4 Pump-and-Treat, September 2011 through February 2017

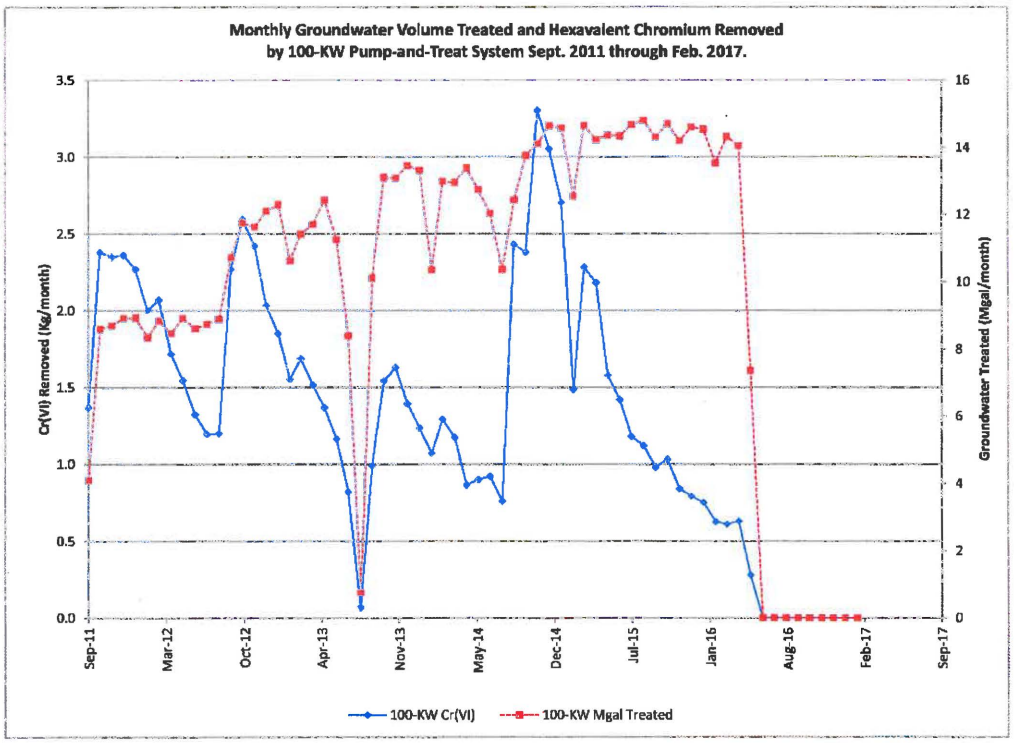


Figure K-4. Monthly Cr(VI) Removed and Groundwater Volume Treated by 100-KW Pump-and-Treat, September 2011 through February 2017.

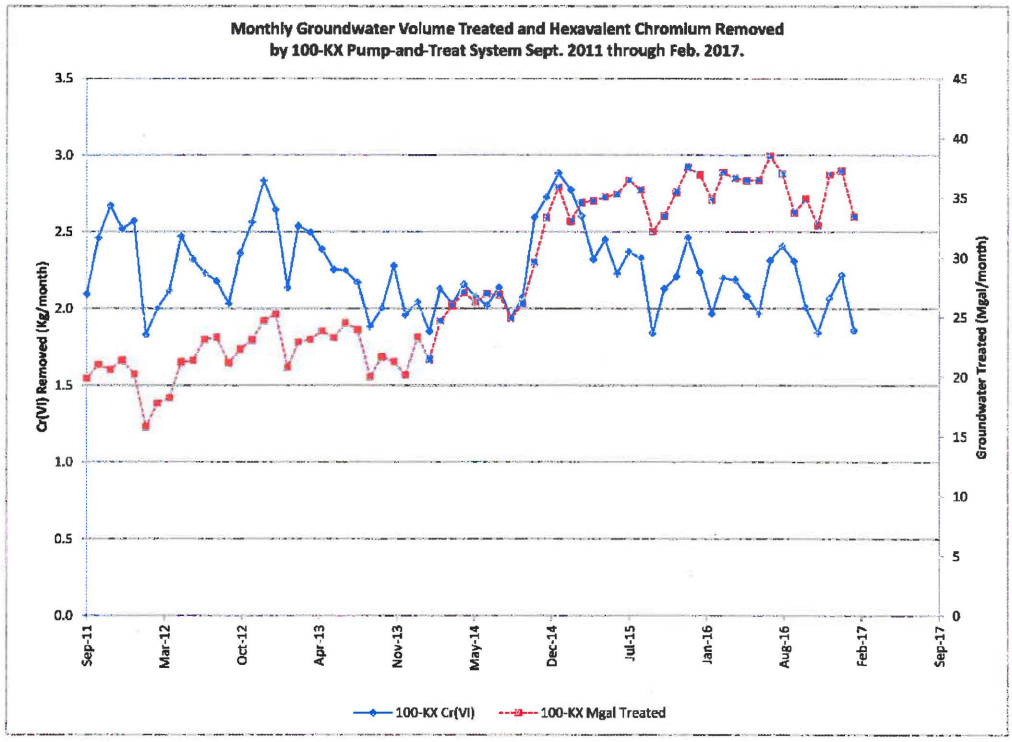


Figure K-5. Monthly Cr(VI) removed and groundwater volume treated by 100-KX pump-and-treat, September 2011 through February 2017.

100-BC-5 Groundwater Operable Unit – Robert Evans/Mary Hartman

- CERCLA Process Implementation:
  - ✓ EPA requested an extension for review of the Draft A, RI/FS Report and Proposed Plan for 100-BC-1, 100-BC-2 and 100-BC-5. EPA's review comments are expected no later than March 31, 2017.
- Monitoring & Reporting:
  - ✓ Monitoring well 199-B4-14, located near the remediated 100-C-7:1 waste site was sampled in January. Hexavalent chromium concentrations were less than 10 μg/L.
  - ✓ The next sampling event includes 5 wells and is scheduled for June 2017.

100-NR-1/100-NR-2 Operable Unit – Bill Faught/Virginia Rohay/Art Lee

- CERCLA Process Implementation
  - ✓ The second round of quarterly groundwater samples was completed in January with data loaded in HEIS. This data will be included in the supplemental groundwater baseline risk assessment.
  - ✓ D&D of the groundwater P&T system main process building, extraction/injection wells and piping/cables has been completed. Removal of the 1323-N sample shack was completed on January 24, 2017. The facility change forms are being finalized.
- Remedial Actions:

100-NR-1 Bioventing –

- ✓ Figure NR-1 presents historic monthly bioventing well gas sample results for monitoring wells 199-N-171 and 199-N-169 and the measurement data are presented in Table NR-1.
- ✓ The low river stage respirometry test was conducted from November 14, 2016 through December 28, 2016, as planned. Preliminary biodegradation rates are provided in Table NR-2 and compared to previous results. Biodegradation rates were not calculated for 199-N-18 and 199-N-183 because of low oxygen utilization. The oxygen utilization rates and calculated biodegradation rates are similar to those observed during the previous low river stage testing. A draft respirometry test report has been prepared for review by CHPRC.

Table NR-2. Comparison of Biodegradation Rate from Respirometry Testing

Monitoring Location	Biodegradation Rate (mg/kg-day)				
	Nov-16	Jun-16	Jan-16	Jul-15	Dec-14
199-N-167	-0.06	-0.06	-0.07	-0.06	-0.05
199-N-169	-0.13	-0.07	-0.12	-0.11	-0.23
199-N-171	-0.21	-0.08	-0.19	-0.13	-0.23
199-N-172	-0.03	-0.02	-0.04	-0.03	-0.05
199-N-183	N/A	N/A	N/A	N/A	N/A
199-N-18	N/A	N/A	N/A	N/A	N/A

N/A = biodegradation rate not calculated because of low oxygen utilization

Note: Oxygen measurements between 19 and 22 percent represent atmospheric conditions indicating insignificant oxygen depletion at monitoring wells 199-N-183 and 199-N-18 which are located furthest from the residual TPH.

A biodegradation rate of -1.0 mg/kg-day would represent a robust rate for this type of system.

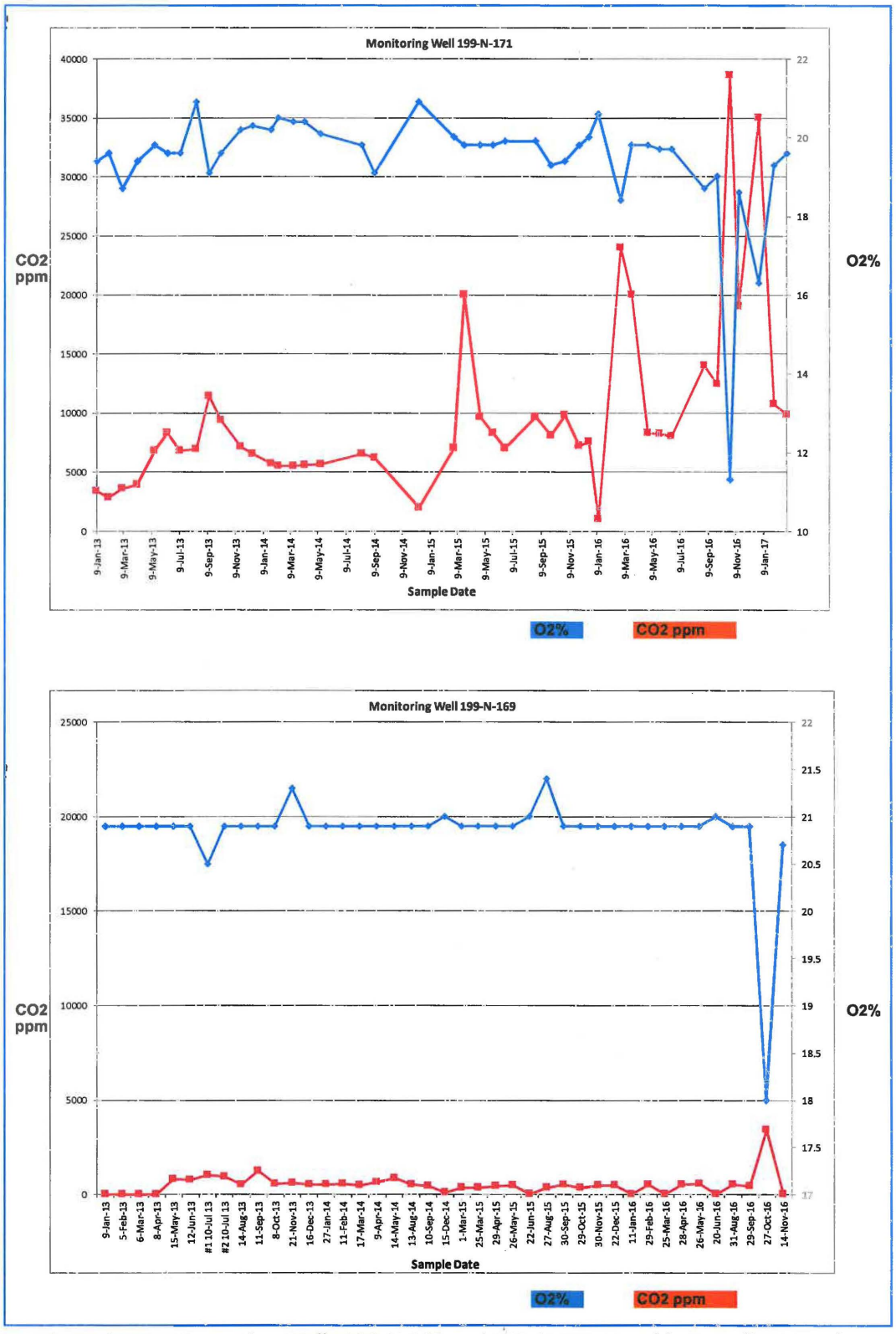


Figure NR-1. Bioventing Wells 199-N-169 and 199-N-171 Monthly Sampling Trends.

Table NR-1. Bioventing Wells 199-N-169 and 199-N-171 Monthly Sampling Results

Date	199-N-171		199-N-169	
	O2%	CO2 ppm	O2%	CO2 ppm
9-Jan-13	19.4	3400	20.9	0
5-Feb-13	19.6	2840	20.9	0
6-Mar-13	18.7	3570	20.9	0
8-Apr-13	19.4	3960	20.9	0
15-May-13	19.8	6820	20.9	800
12-Jun-13	19.6	8290	20.9	780
10-Jul-13	19.6	6800	20.5	1020
14-Aug-13	20.9	6940	20.9	530
11-Sep-13	19.1	11400	20.9	1250
8-Oct-13	19.6	9380	20.9	550
21-Nov-13	20.2	7160	21.3	600
16-Dec-13	20.3	6520	20.9	530
27-Jan-14	20.2	5720	20.9	500
11-Feb-14	20.5	5520	20.9	550
17-Mar-14	20.4	5520	20.9	470
9-Apr-14	20.4	5560	20.9	660
14-May-14	20.1	5670	20.9	840
13-Aug-14	19.8	6520	20.9	520
10-Sep-14	19.1	6180	20.9	410
15-Dec-14	20.9	2000	21	100
1-Mar-15	20	7020	20.9	360
25-Mar-15	19.8	20000	20.9	325
29-Apr-15	19.8	9650	20.9	410
26-May-15	19.8	8260	20.9	460
22-Jun-15	19.9	7000	21	0
27-Aug-15	19.9	9620	21.4	330
30-Sep-15	19.3	8070	20.9	530
29-Oct-15	19.4	9770	20.9	360
30-Nov-15	19.8	7200	20.9	460
22-Dec-15	20	7510	20.9	490
11-Jan-16	20.6	1000	20.9	0
29-Feb-16	18.4	24000	20.9	520
25-Mar-16	19.8	20000	20.9	15.6
28-Apr-16	19.8	8290	20.9	520
26-May-16	19.7	8220	20.9	550
20-Jun-16	19.7	8000	21	0
31-Aug-16	18.7	14000	20.9	530
29-Sep-16	19	12400	20.9	430
27-Oct-16	11.3	38600	18	3400
14-Nov-16	18.6	19000	20.7	0
28-Dec-16	16.3	35000	12.5	23000
30-Jan-17	19.3	10700	20.9	390
28-Feb-17	19.6	9860	20.9	390

Product Recovery

✓ The sponge assembly in well 199-N-18 was replaced on February 21, 2017. A total of 200 g of TPH was removed from groundwater. Assuming that the TPH is diesel, with a density of 0.85 g/mL, 0.24 L of diesel was removed. Also on February 21, 2017, a smart sponge assembly was inserted in well 199-N-183, located near well 199-N-18. Placing smart sponge material in well 199-N-183 may help determine if low water availability is the reason for the limited product removal at 199-N-18.

Aquifer Tubes

✓ Tubes C7934, C7935, and C7936 are located adjacent to one another (Figure NR-3), with screens at depths of 14.41 ft. (C7934), 18.75 ft. (C7935), and 29.19 ft. (C7936). All three aquifer tubes were sampled on October 26, 2016 (for November) and November 30, 2016 (for December). Tritium and strontium-90 concentration trends for all three aquifer tubes through November 30, 2016 are shown in Figures NR-4 and NR-5, respectively.

- Tritium concentration trends have been steadily decreasing since the large spike that started in the first quarter of 2013 and peaked in the spring of 2015 and that the declining trends indicate that the mass of tritium flushed to groundwater during waste site soil remediation are receding.
- The sample results were compared to specific conductance measurements and the finding is that the samples are from groundwater and not river water. The samples have no lab qualifiers that would indicate any analytical anomalies in the tritium results.
- The initial strontium-90 results for the samples collected on October 26 from the two shallow aquifer tubes (C7934 and C7935) were anomalously high, and the samples were reanalyzed for strontium-90. The reanalyzed values are consistent with trends and have been entered into HEIS with reviewer qualifiers of "G" (meaning that these new results are determined to be correct). Samples could not be collected at these aquifer tubes in January 2017 because of adverse weather. These aquifer tubes are scheduled for sampling again in February 2017.

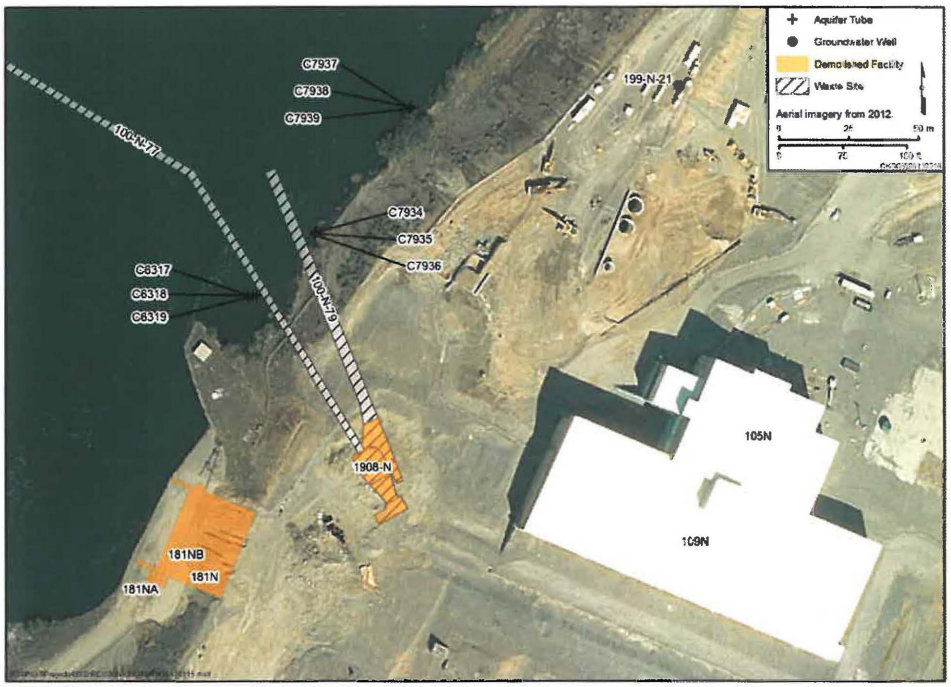


Figure NR-3. Locations of Aquifer Tubes C7934, C7935, and C7936.

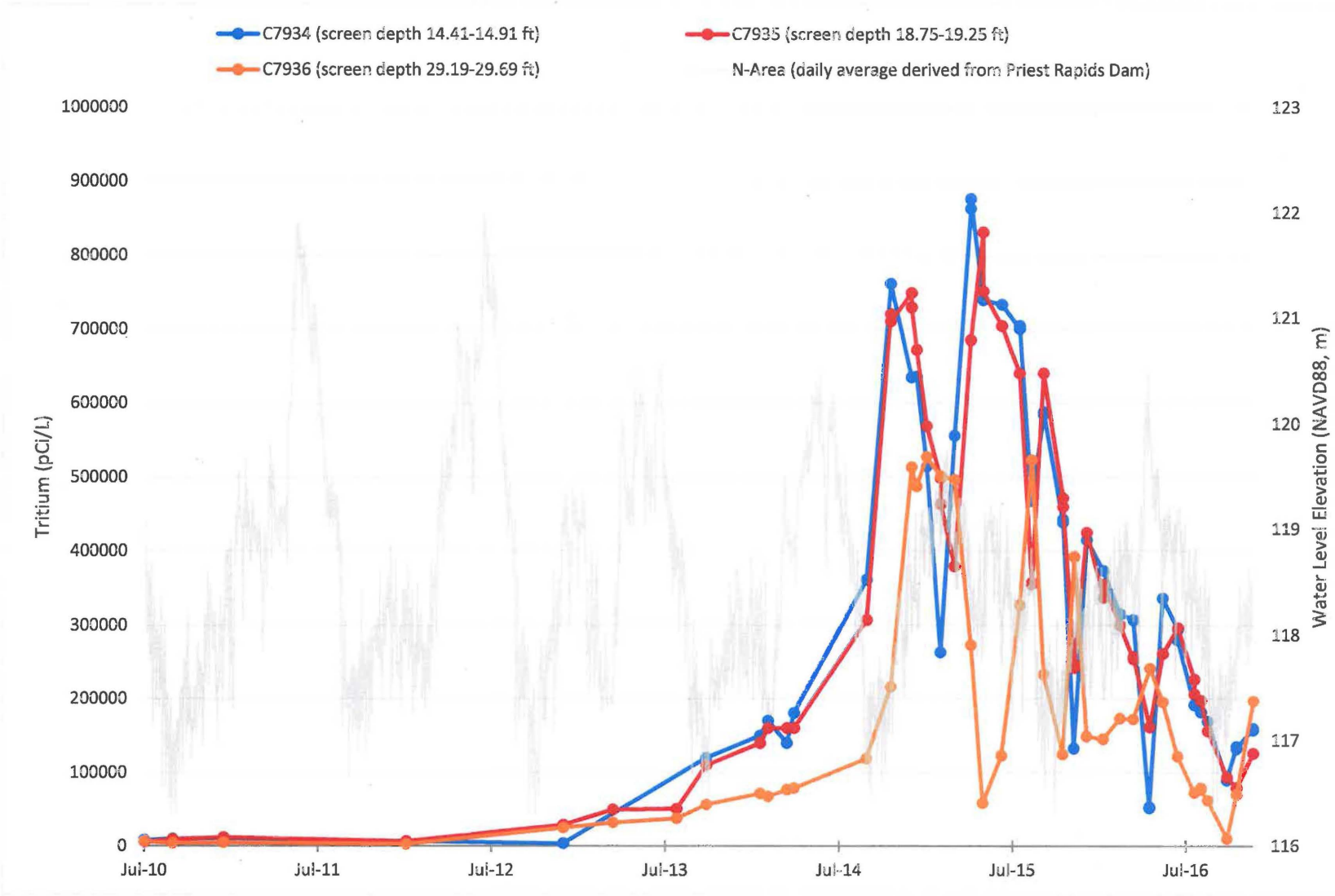


Figure NR-4. Tritium Trends through December 2016 at Aquifer Tubes C7934, C7935, and C7936.

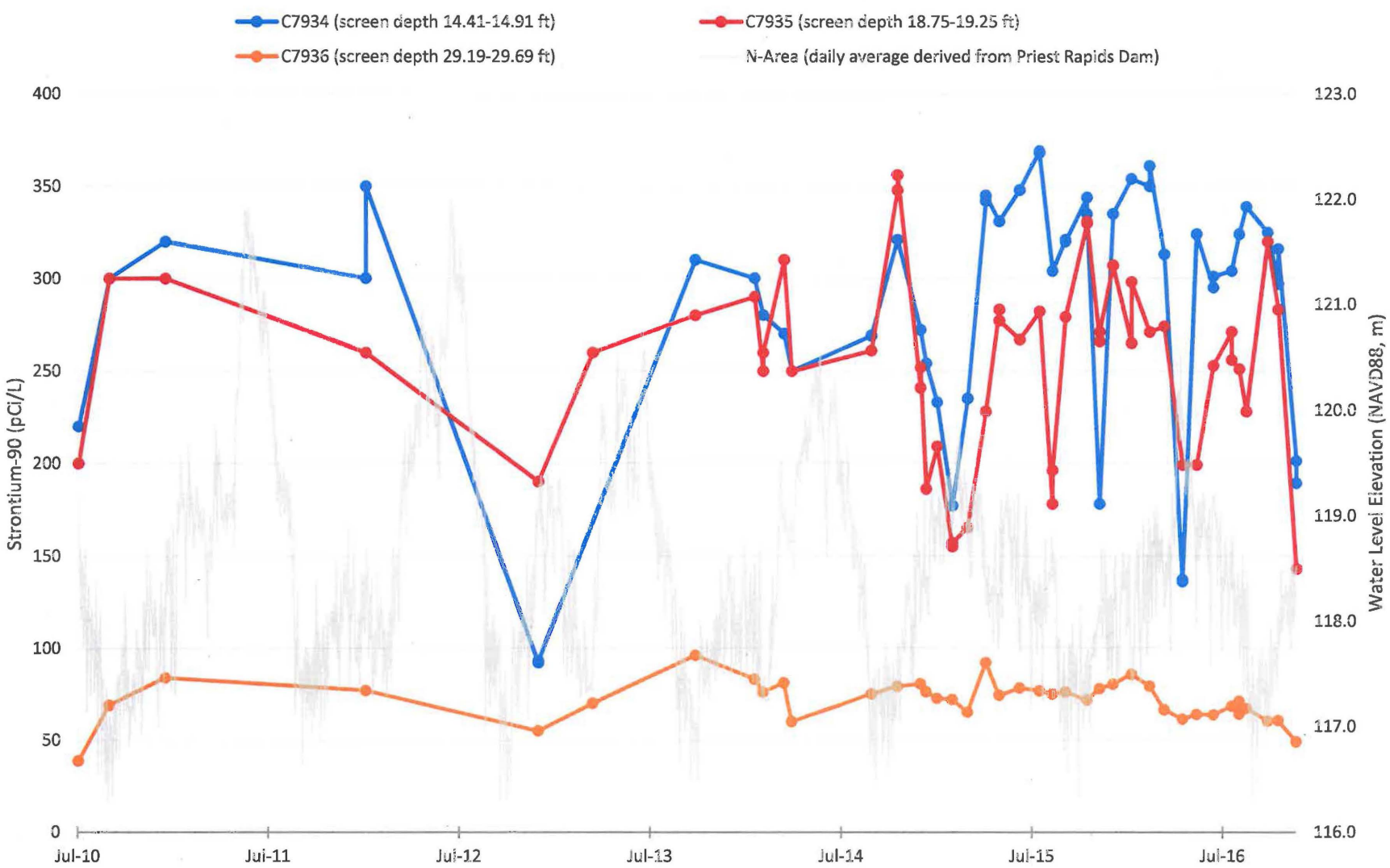


Figure NR-5. Strontium-90 Trends through December 2016 at Aquifer Tubes C7934, C7935, and C7936.

100-HR-3 Groundwater Operable Unit – Mike Drewett/Rob Mackley

- CERCLA Process Implementation:
  - ✓ The Rev. 0 Proposed Plan was submitted for public comment on July 26, 2016. An extension to the public comment period was granted. The review period ended on September 16, 2016. DOE-RL, Ecology and EPA are currently responding to comments on the draft Record of Decision (ROD) and responsiveness summary. Resolution of outstanding comments were completed during the February 27-28, 2017 meetings. The Revised ROD was provided to EPA for review and comment by DOJ on March 2, 2017.
- Ringold Upper Mud (RUM) Aquifer Pump Test
  - ✓ The internal draft of the document is in review. CHPRC will submit the document to DOE-RL in March 2017.
- Remedial Actions & System Modifications
  - ✓ The volume of groundwater treated and mass of Cr(VI) removed from the 100-HR-3 P&T systems during January and February 2017 are:

Month	**Gallons Treated (in millions)**	**Hexavalent Chromium Removed (kg)**
January	56.5	5.2
February	53.0	4.4

  - ✓ FY 2017 (October. 2016 through February 2017) P&T performance to date:

P&T System	Treated (mgal)	Removed (kg)
DX	156	15.5
HX	121	10.6
Total	**268**	26.2

  - ✓ The influent and effluent Cr(VI) concentrations (measured weekly) for the 100-HR-3 systems during January and February are presented in Table H-1.
  - ✓ A summary of the number of extraction and injection wells in the DX and HX P&T systems is shown in Table H-2. Figure H-1 illustrates the monthly average pumping rates for operating extraction wells across the DX and HX P&T systems. River levels are increasing, and therefore pumping rates have also increased.
  - ✓ Summaries of the volume of groundwater treated and Cr(VI) removed for the 100-DX and 100-HX pump and treat systems are shown in figures H-2 and H-3, respectively.
  - ✓ A general reduction in Cr(VI) mass removal over time, a function of progress of remediation with associated reduction in groundwater contaminant concentration, is exhibited at both DX and HX. The drop in concentrations is more pronounced at DX, where concentrations were previously at very high levels. Influent concentrations at DX continue to decline as remediation progresses.

Table H-1. Monthly Summary of Influent and Effluent Concentrations at the 100-HR-3 P&T Systems

System	Month	Weekly Influent Concentrations[a] (µg/L)	Average Monthly Influent Concentration (µg/L)	Weekly Effluent Concentrations[ab] (µg/L)	Average Monthly Effluent Concentration[b] (µg/L)
100-DX	January	25, 25, 36, 21, 29	27	4, 3, 3, 3, 3	3
	February	29, 26	27	5, 4	5
100-HX	January	26, 21, 24, 26	24	0, 0, 0, 0	0
	February	20, 20, 16	19	0, -1, -4	-2

Concentrations provided represent samples taken during the current month and loaded into HEIS as of the publication of the UMM.

Concentrations reported are below detection and represent the actual instrument reading on the sample(s). The detection limit is approximately 2 µg/L hexavalent chromium. The negative readings indicate that the measured concentration is indistinguishable from the blank.

Table H-2. Summary of the Number of Extraction and Injection Wells in the 100-HR-3 Systems

Wells	DX		HX		Total
	2015	2016	2015	2016	Current 2017
Number of extraction wells	44	46	31	34	80
Number of injection wells	14	11	14	16	27

Note: The FY17 well realignments are in progress. The number of operational wells for 2017 will be updated following completion of the planned realignments.

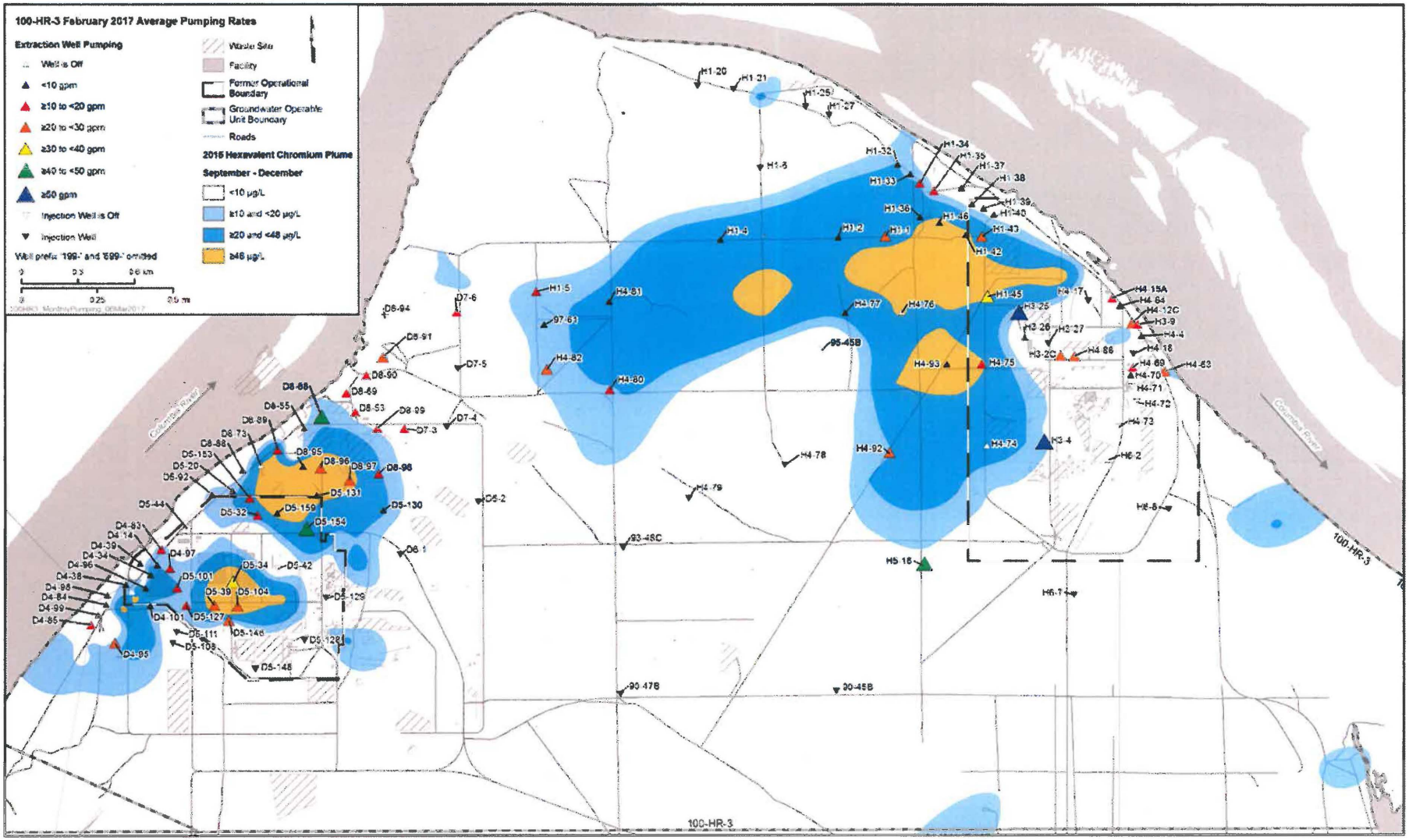


Figure H-1. February 2017 Average Pumping Rates for the 100-HR-3 P&T System.

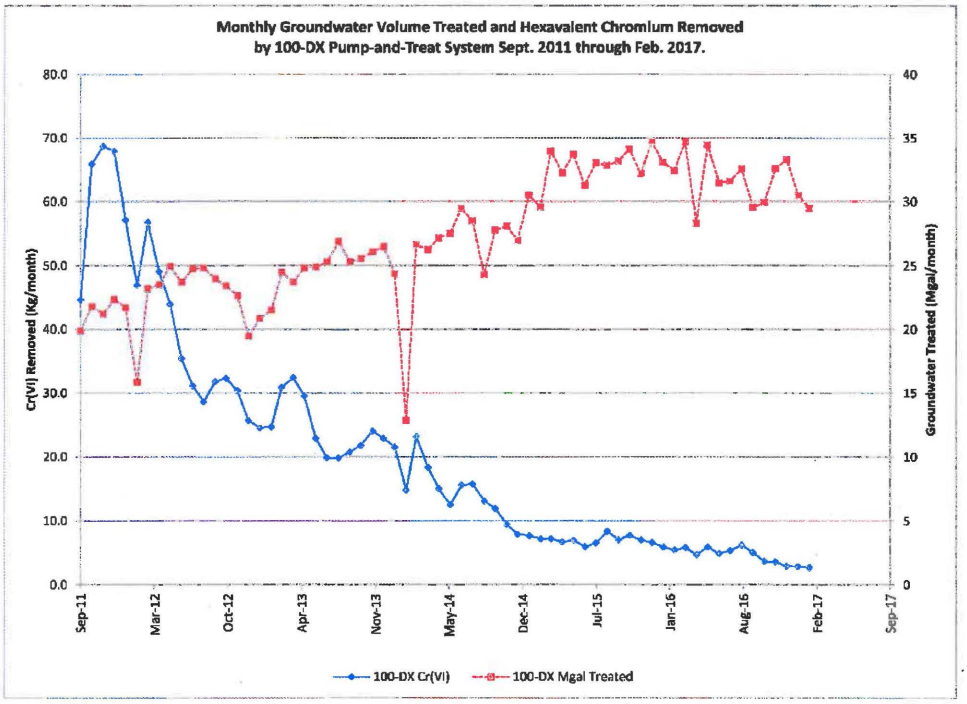


Figure H-2. Monthly Cr(VI) Removed and Groundwater Volume Treated by 100-DX Pump-and-Treat, September 2011 through February 2017.

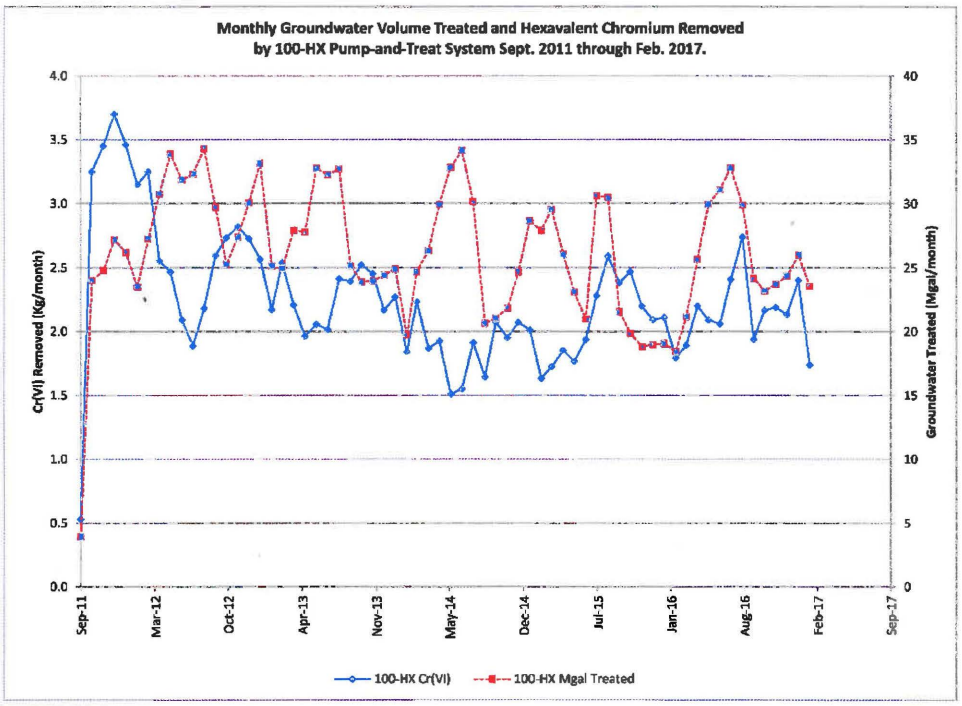


Figure H-3. Monthly Cr(VI) Removed and Groundwater Volume Treated by 100-HX Pump-and-Treat, September 2011 through February 2017.

100-FR-3 Groundwater Operable Unit – Robert Evans/Mary Hartman

- CERCLA Process Implementation:
  - ✓ Nothing new to report
- Monitoring & Reporting:
  - ✓ The six new monitoring wells were scheduled for sampling in January 2017. Sampling was delayed until late February 2017 because of weather and competing priorities. The next sampling event is scheduled for March.

300-FF-5 Groundwater Operable Unit – Patrick Baynes/Virginia Rohay/Farah Elloy

- CERCLA Process Implementation:
  - ✓ Nothing new to report
- Remedial Actions:
  - ✓ Sequestration – Stage B Project:
    - Earth/Site work underway
    - Roads, Pads, and Lay-down Area is complete
    - Office and restroom trailer installation underway
    - Chemical Delivery System Design – 50% complete
    - Chemical Procurement Process is underway
    - Drilling (Contracts have been awarded and anticipate drilling starting in January/February 2017
    - ERT Grout formula approved by Ecology
    - Chemical Injections still on schedule for August/September 2017
- Monitoring & Reporting:
  - ✓ 300 Area Industrial Complex: The next CERCLA sampling event is scheduled for March 2017.
  - ✓ 300 Area Industrial Complex: Of the 53 AEA wells scheduled for sampling in December 2016, 47 were sampled in December 2016 and 1 was sampled in January 2017. The next AEA sampling event is scheduled for April 2017.
  - ✓ 618-10 Burial Ground/316-4 Crib: The three CERCLA wells were sampled as scheduled in November 2016, prior to remediation of the 316-4 Crib. The samples scheduled for January 2017 during remediation of the crib were collected in February at two of the wells. The next CERCLA sampling event is scheduled for May 2017, following remediation of the 316-4 Crib.
  - ✓ 618-10 Burial Ground/316-4 Crib: Two of the four wells scheduled for AEA monitoring in December 2016 were sampled. The next AEA sampling event is scheduled for December 2017.
  - ✓ 618-11 Burial Ground: The next CERCLA sampling event is scheduled for October 2017. Six wells scheduled for AEA monitoring in October 2016 have not yet been sampled.
  - ✓ 300 Area Process Trenches (316-5) RCRA Monitoring: All 8 wells scheduled for sampling in January 2017 were sampled on January 12, 2017. All 8 wells scheduled for sampling in February 2017 were sampled on February 6, 2017.The next sampling event is scheduled for March 2017. *Note, the 8 wells are sampled semiannually with 4 independent samples collected per semiannual period; the 4 independent samples are collected on a monthly interval. As a result, the 8 wells are sampled 8 months per year.*

Hanford Sampling Program Information

Table 1 Wells, Aquifer Tubes, and Springs in the River Corridor Areas Successfully Sampled In January 2017

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
199-B4-14		199-D4-95	199-H5-16	199-K-106A	199-N-377	699-S36-E13A	399-1-10A
		199-D4-97	199-H4-88	199-K-107A		699-S37-E14	399-1-10B
		199-D4-98	199-H4-75	199-K-117A		699-S41-E12	399-1-16A
		199-D4-99	199-H4-70	199-K-132		699-S42-E8A	399-1-16B
		199-D5-101	199-H4-69	199-K-137			399-1-17A
		199-D5-127	199-H4-64	199-K-165			399-1-17B
		199-D5-151	199-H4-63	199-K-173			399-1-18A
		199-D5-152	199-H3-2C	199-K-18			399-1-18B
		199-D5-153	199-H3-25	199-K-185			399-1-23
		199-D5-154	199-H1-46	199-K-202			399-1-55
		199-D5-32	199-H1-45	199-K-204			399-1-7
		199-D7-3	199-H1-43	199-K-205			399-2-2
		199-D7-6	199-H1-36	199-K-207			399-4-1
		199-D8-88	199-H1-34	199-K-221			699-S19-E13
		199-D8-89	199-H1-2	199-K-222			
		199-D8-90	199-H1-1	199-K-223			
		199-D8-91		199-K-224			
		199-D8-95		199-K-34			
		199-D8-96					
		199-D8-97					
		199-D8-98					
		199-D8-99					
		199-H1-5					
		199-H4-80					
		199-H4-81					
		199-H4-82					

Table 2 Wells, Aquifer Tubes, and Springs in the River Corridor Areas Successfully Sampled In February 2017

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
	699-66-32	199-D3-2	199-H1-35	17-D	C7934		399-1-10A
	699-71-34	199-D4-101	199-H1-7	17-M	C7935		399-1-10B
	699-75-28	199-D4-102	199-H2-1	199-K-108A	C7936		399-1-16A
	699-75-31	199-D4-103	199-H3-2A	199-K-111A			399-1-16B
	699-75-34B	199-D4-14	199-H3-4	199-K-132			399-1-17A
		199-D4-15	199-H3-6	199-K-132			399-1-17B
		199-D4-19	199-H3-9	199-K-132			399-1-18A
		199-D4-22	199-H4-11	199-K-137			399-1-18B
		199-D4-34	199-H4-12A	199-K-138			399-1-23
		199-D4-83	199-H4-12C	199-K-139			399-1-55
		199-D4-98	199-H4-13	199-K-140			399-1-7
		199-D4-99	199-H4-15A	199-K-158			399-2-2
		199-D5-103	199-H4-4	199-K-165			699-10-E12
		199-D5-104	199-H4-83	199-K-166			699-S6-E4B
		199-D5-132	199-H4-84	199-K-168			699-S6-E4E
		199-D5-133	199-H4-85	199-K-173			
		199-D5-14	199-H4-86	199-K-173			
		199-D5-142	199-H4-87	199-K-174			
		199-D5-145	199-H4-88	199-K-175			
		199-D5-146	199-H4-89	199-K-184			
		199-D5-149	199-H4-90	199-K-185			
		199-D5-150	199-H4-91	199-K-196			
		199-D5-151	199-H4-92	199-K-20			
		199-D5-152	699-88-41A	199-K-205			
		199-D5-160	699-93-37A	199-K-205			
		199-D5-34	699-97-43B	199-K-206			
		199-D5-39	699-97-43C	199-K-223			
		199-D5-42	699-97-45B	199-K-224			
		199-D5-97	699-97-47B	199-K-32A			
		199-D8-102	699-97-60				
		199-D8-102	699-98-46				
		199-D8-4	699-99-42B				
		199-D8-53					
		199-D8-68					
		199-D8-69					
		699-97-48C					
		699-98-51					

Table 3 Fiscal Year 2016/2017 Sample Trips in the River Corridor Areas awaiting at the end of February 2017

Qtr Sched	GWIA	SAMP_SITE TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
FY 2016 Q4	100-NR	AQUIFER TUBE	C9586	9/1/2016	2 Times Annually	3		
		AQUIFER TUBE	N116mArray-0A	9/1/2016	3 Times Annually	3		Review for Cancelation
		AQUIFER TUBE	N116mArray-10A	9/1/2016	2 Times Annually	3		Review for Cancelation
FY 2017 Q1	100-HR-D	WELL	199-D4-20	11/1/2016	Quarterly	0	Late	Review for Cancelation
		WELL	199-D4-29	12/1/2016	Annual	9		
		WELL	199-D4-50	12/1/2016	Annual	9		
		WELL	199-D5-18	11/1/2016	Annual	8		
	100-HR-H	AQUIFER TUBE	43-M	11/1/2016	Annual	8		Unsuccessful 10-11-2016
		AQUIFER TUBE	51-D	11/1/2016	Annual	8		
		SPRING	SH-144-1	11/1/2016	Annual	8		
	100-KR	SPRING	100-K SPRING 68-1	10/1/2016	Annual	7		
		WELL	199-K-146	11/1/2016	Annual	8		
		WELL	199-K-153	11/1/2016	Annual	8		
		WELL	199-K-171	11/1/2016	Annual	8		
		WELL	199-K-178	11/1/2016	Annual	8		
		AQUIFER TUBE	199-K-220	11/1/2016	3 Times Annually	2		
	100-NR	AQUIFER TUBE	N116mArray-0A	12/15/2016	3 Times Annually	3		
	1100-EM	WELL	699-S30-E15A	12/1/2016	Annual	9		
		WELL	699-S31-E10A	12/1/2016	Annual	9		
		WELL	699-S32-E13B	12/1/2016	Annual	9		
	300-FF	WELL	399-4-12	12/1/2016	Annual	9		
		WELL	399-6-5	12/1/2016	Annual	9		
		WELL	699-12-2C	10/1/2016	Annual	7		
		WELL	699-13-0A	10/1/2016	Annual	7		
		WELL	699-13-1C	10/1/2016	Annual	7		
		WELL	699-13-1E	10/1/2016	Annual	7		
		WELL	699-13-2D	10/1/2016	Annual	7		
		WELL	699-13-3A	10/1/2016	Annual	7		
		WELL	699-S29-E16A	12/1/2016	Annual	9		
FY 2017 Q2	100-FR	WELL	699-67-26	1/1/2017	Other	0	Late	Review for Cancelation
	100-HR-D	WELL	199-D4-20	2/1/2017	Quarterly	2		
		WELL	199-D4-38	2/1/2017	Quarterly	2		
		WELL	199-D4-84	2/1/2017	Quarterly	2		
		WELL	199-D4-85	2/1/2017	Quarterly	2		
		WELL	199-D5-161	1/1/2017	Annual	10		
		WELL	199-D5-92	2/1/2017	Quarterly	2		
		WELL	199-D8-55	2/1/2017	Quarterly	2		

Qtr Sched	GWIA	SAMP_SITE TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
		WELL	199-D8-6	2/1/2017	2 Times Annually	2		
		WELL	699-97-61	2/1/2017	Quarterly	2		
	100-HR-H	WELL	199-H1-32	2/1/2017	Quarterly	2		
		WELL	199-H1-33	2/1/2017	Quarterly	2		
		WELL	199-H1-37	2/1/2017	Quarterly	2		
		WELL	199-H1-37	2/1/2017	Quarterly	2		
		WELL	199-H1-37	2/1/2017	Quarterly	2		
		WELL	199-H4-93	1/1/2017	Quarterly	1		
		WELL	699-90-45B	1/1/2017	Quarterly	1		
	100-KR	WELL	199-K-106A	1/30/2017	Other	0		Review for Cancelation; Successful on 1-29-2017
		WELL	199-K-106A	2/1/2017	Other	2		Rebound Study; Schedule Adjusted
		WELL	199-K-106A	2/27/2017	Other	2		Rebound Study; Schedule Adjusted
		WELL	199-K-107A	1/30/2017	Other	0		Review for Cancelation; Successful on 1-29-2017
		WELL	199-K-107A	2/1/2017	Other	2		Rebound Study; Schedule Adjusted
		WELL	199-K-107A	2/27/2017	Other	2		Rebound Study; Schedule Adjusted
		WELL	199-K-137	2/27/2017	Other	2		
		WELL	199-K-141	2/1/2017	Quarterly	2		
		WELL	199-K-165	2/27/2017	Other	2		
		WELL	199-K-173	2/27/2017	Other	0		Rebound Study; Schedule Adjusted
		WELL	199-K-185	2/27/2017	Other	2		
		WELL	199-K-204	1/30/2017	Other	0		Rebound Study; Schedule Adjusted
		WELL	199-K-204	2/27/2017	Other	2		
		WELL	199-K-205	2/27/2017	Other	0		Rebound Study; Schedule Adjusted
		WELL	199-K-223	1/30/2017	Other	0		Rebound Study; Schedule Adjusted
		WELL	199-K-223	2/27/2017	Other	0		Rebound Study; Schedule Adjusted
		WELL	199-K-224	1/30/2017	Other	0		Rebound Study; Schedule Adjusted
		WELL	199-K-224	2/27/2017	Other	0		Rebound Study; Schedule Adjusted
		WELL	199-K-34	1/30/2017	Other	2		
		WELL	199-K-34	2/1/2017	Other	2		
		WELL	199-K-34	2/27/2017	Other	2		
		AQUIFER TUBE	AT-K-1-D	1/30/2017	Other	7		
		AQUIFER TUBE	AT-K-1-M	1/30/2017	Other	7		
		AQUIFER TUBE	AT-K-1-S	1/30/2017	Other	7		
		AQUIFER TUBE	C7641	1/1/2017	Other	7		
		AQUIFER TUBE	C7641	1/30/2017	Other	7		
		AQUIFER TUBE	C7642	1/1/2017	Other	7		
		AQUIFER TUBE	C7642	1/30/2017	Other	7		

Qtr Sched	GWIA	SAMP_SITE TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
		AQUIFER TUBE	C7643	1/1/2017	Other	7		
		AQUIFER TUBE	C7643	1/30/2017	Other	7		
	300-FF	WELL	699-11-E4F	2/1/2017	Annual	11		
		WELL	699-S6-E4K	1/1/2017	Other	1		

Table 4 Groundwater Sampling Locations in the River Corridor Areas Scheduled to be sampled in February 2017

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
	199-F5-45	199-D5-151	199-H1-1	199-K-132	199-N-105A	699-S24-19P	399-1-10A
	699-66-32	199-D5-152	199-H1-2	199-K-173	199-N-165		399-1-10B
	699-67-26	199-D5-160	199-H1-34	199-K-205	199-N-2		399-1-16A
	699-71-34	199-D8-102	199-H1-36	199-K-223	199-N-28		399-1-16B
	699-75-28	199-D8-73	199-H1-39	199-K-224	199-N-3		399-1-17A
	699-75-31	199-D8-88	199-H1-4	22-D	199-N-32		399-1-17B
	699-75-34B	199-D8-89	199-H1-42		199-N-34		399-1-18A
		199-D8-99	199-H1-43		199-N-371		399-1-18B
		199-H1-5	199-H1-45		199-N-372		399-1-23
		199-H4-80	199-H1-46		199-N-373		399-1-55
		199-H4-81	199-H3-25		199-N-374		399-1-7
		199-H4-82	199-H3-26		199-N-376		399-2-2
			199-H3-2C		199-N-377		399-4-14
			199-H4-63		199-N-41		699-9-E2
			199-H4-64		199-N-57		
			199-H4-69		199-N-71		
			199-H4-70		199-N-72		
			199-H4-74		199-N-73		
			199-H4-75		199-N-74		
			199-H4-76		199-N-77		
			199-H4-77		199-N-81		
			199-H4-84		C7934		
			199-H4-88		C7935		
			199-H5-16		C7936		

Table 5 Groundwater Sampling Locations in the River Corridor Scheduled for Sampling in April 2017

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
		199-D4-95	199-H4-84		C7934		399-1-16A
		199-D4-96	199-H4-88		C7935		399-1-17A
		199-D4-97	199-H4-92		C7936		399-1-23
		199-D5-101	199-H4-93				399-1-55
		199-D5-127	699-88-41A				399-1-7
		199-D5-130	699-90-45B				399-2-2
		199-D5-131	699-93-37A				699-S29-E16C
		199-D5-151					
		199-D5-152					
		199-D5-153					
		199-D5-154					
		199-D5-159					
		199-D5-160					
		199-D5-20					
		199-D5-32					
		199-D7-3					
		199-D7-6					
		199-D8-102					
		199-D8-90					
		199-D8-91					
		199-D8-95					
		199-D8-96					
		199-D8-97					
		199-D8-98					
		699-90-47B					

Documents Approved for Submittal to AR

Per procedural update (MSC-PRO-211, Administrative Record File and Public Information Repositories), documents must have DOE Area Lead approval before inclusion into the Administrative Record.

TPA Compliance Note:

The DOE Project Managers have not identified outstanding issues with the preceding month's Environmental Performance Report for this scope.

Approved Change Notices

- No TPA Change Notices were approved during the reporting period.