1245426

[0069103H]

DISTRIBUTION
100 & 300 AREA UNIT MANAGERS MEETING
July 20, 2017

DOE/RL
(No hard copy distribution)

EPA

Craig Cameron	A3-46

Ecology

Nina Menard	H0-57

CHPRC

Laura O'Mara (original)	R3-50

Administrative Record (2)	H6-08
Correspondence Control	G3-62

RECEIVED
AUG 07 2017
EDMC

54

This page intentionally left blank

100 & 300 Area Unit Manager Meeting
Attachments List
July 20, 2017

Attachment 1	**Agenda**
Attachment 2	**Attendees Sign In**
Attachment 3	**Signature Page**
Attachment 4	**Action Items**
Attachment 5	**100K Area Report**
Attachment 6	**Summary Hanford Sampling Program**
Attachment 7	**Documents to the AR**
Attachment 8	**Map of 100K Waste Site Areas**
Attachment 9	**Map of 100K New Well Locations**
Attachment 10	**Associated TPAs and Milestones**

- **TPA-CN-0784: DOE/RL-2014-13-ADD2, Revision 0: Remedial Design Report Remedial Action Work Plan Addendum for the 300 Area Groundwater.**

RECEIVED
AUG 07 2017
EDMC

This page intentionally left blank

100/300 Area Unit Manager Meeting
July 20, 2017
2420 Stevens Center
Richland 99354
Room 153 1:00 p.m.

Administrative:

- Update to Action Items List
- KW P&T Restart (printed email)

Special Topics

- Special Topics for future meetings include 100 KR-4 Rebound Study, Tracer Test and KE Borehole Investigation Report

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

- Summary of Hanford Sampling Program (Len Habel/Bill Webber)
- 100-OL-1 - Orchard Lands (Steve Balone)
- 300 Area - 618-10/11 (John Neath, Mike Davis)
- 100-K Area Soils (Rudy Guercia, Mike Davis)
- 100-K Area Groundwater (Steve Balone)
- 100-B/C Area (Ellen Dagan)
- 100-N Area (Steve Balone, John Neath)
- 100-D & 100-H Areas (Ellen Dagan, John Neath)
- 100-F Area (Steve Balone)
- 300 Area (Steve Balone, Rudy Guercia)

Other

- None

Closing Comments (all)

- Sign concurrence to meeting minutes if applicable
- Future meetings will be held in 2420 Stevens Drive Room 153 from 1:00-3:00pm on the following dates:
    - September 21st
    - November 16th

Adjourn

100/300 Area Unit Managers' Status Meeting
July 20, 2017

CHPRC-1703441
ATTACHMENT 2

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Kathy Higgins	DOE		
Ellen Dagan	DOE	D/H, B-E, K	376-3811
Kathleen Thompson	CHPRC	100-K ECO	373-9503
Jane Borghese	CHPRC	TPA	373-3804
Bob Cathel	CHPRC	ECO-300	845-6146
Hans Carman	CHPRC	GK8-10	554-1992
D. Goswami	@ Ecology	Lead HG	372-7902
J Nicoletti	RL	River Cond 100/300 FR	372-0649
Dan Beers	WDOH		943-6505

100/300 Area Unit Managers' Status Meeting
July 20, 2017

CHPRC-1703441
ATTACHMENT 2

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Dwayne Crumpler	ECY	100-NR-2 100 HR-3	(509) 372-7925
Alicia Boyd	ECY	100 Areas	372-7950
Steven Cinnon	ODOE		(541) 240-0160
Nina Menard	ECY	PM	509-372-7941
Laura Buelow	EPA	RPM	376-5466
Steve Balone	DOE-RL	PM	376-0236
Lorin Clements	CHPRC		373 9125

100/300 UNIT MANAGERS MEETING
APPROVAL OF MEETING MINUTES

July 20, 2017

APPROVAL: _____ **DATE:** 7/20/17
Mark French, DOE/RL (A3-04)
River Corridor Project Manager

APPROVAL: _____ for M.C. **DATE:** 7/20/17
Michael Cline, DOE/RL (A5-11)
Groundwater Project Manager

APPROVAL: _____ **DATE:** 7/20/17
Nina Menard, Ecology (H0-57)
Environmental Restoration Project Manager

APPROVAL: _____ **DATE:** 7/20/17
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
O	100-175		Bill Faught		Sampling frequency of strontium-90 for 100-N to be discussed in a separate 100-N project meeting	as notated on the Agenda May 18, 2017 UMM
	100-176		Bill Faught		Special Topics for future meetings include 100 KR-4 Rebound Study, Tracer Test and KE Borehole Investigation Report	as notated on the Agenda May 18, 2017 UMM

100K Area Report
100/300 Area Unit Manager Meeting
July 20, 2017

Progress Report for May and June 2017

RL-0012 Sludge Treatment Project

TPA Milestone **M-016-177**, *Complete 105-KW sludge transfer equipment installation.* **(9/30/17)** – Completed April 20, 2017

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

- Initiated K-Basin Pre-operational Acceptance Testing (KPAT) on April 20, 2017. Testing continued throughout June and is forecast to complete October 11, 2017.
- T Plant facility modifications for sludge storage completed on May 24, 2017 (PM-12-4-17).
- Continued working with RL to address comments arising from Documented Safety Analysis (DSA)/TSR revision submitted on April 12, 2017. RL approval is forecast by August 15, 2017.
- RL is drafting the Safety Evaluation Report (SER) approving the One Time Request for Shipment (OTRS) document. The SER for this important document is anticipated by July 31, 2017. CHPRC Transportation Safety personnel have also completed a draft OTRS implementation compliance matrix, which will be finalized once the OTRS SER is received.
- Continued development of Training Lesson Guides and Exam Banks.
- The third group of KW NCOs commenced hands-on ECRTS training at MASF on 6/12/17.
- Development of the Operations and Maintenance Procedures supporting sludge removal and packaging operations continues in parallel with approval of safety documentation. As of June month end, 31 of 79 procedures are drafted.
- Advanced 100K Area Readiness Activities
    - ECRTS K Basin Preoperational Acceptance Testing
        - Startup Notification Report (SNR) – A revised SNR is being submitted to reflect CHPRC's position that KPAT Integrated Testing is a "non-reviewable" activity in accordance with PRC-PRO-OP-055, *Startup Readiness.*
        - A Management Assessment (MA) will be conducted prior to initiation of activities that connect the 105K West Basin hoses to the hardware in the 105K West Annex.
    - ECRTS Sludge Removal Project Campaign

    - ARP and RSAs have been drafted and will complete following DOE RL approval of the Plan of Action (POA).
    - The POA was internally approved and transmitted to DOE RL for review/approval on May 25, 2017. DOE RL & CHPRC personnel met on June 28, 2017 to discuss RL comments and reach consensus on resolution. A revised POA is forecast for submittal in July.
- Advanced T Plant Readiness Activities
    - Completed and approved the ARP and RSAs. The Readiness Coordinator continues working with responsible managers on drafting affidavits.
    - The T Plant POA was approved on 5/31/17.
- Completed Construction Acceptance Testing (CAT) on 4/20.
- T Plant Operating Procedures have been drafted and are awaiting Safety Basis Documentation approval by DOE RL.
- CHPRC updated the Master Documented Safety Analysis (MDSA)/Technical Safety Requirements (TSR) document to incorporate RL comments and retransmitted the document sent to RL for approval. Approval of the MDSA /TSR is forecast by July 31, 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

- EPA approved Waste Site Reclassification Forms (WSRFs) for closure of 100-K-25, 100-K-27, 100-K-35, 100-K-79:3 100-K-79:4, 100-K-98, 100-K-101, 120-KE-1, 120-KE-2, 120-KE-3, 120-KE-4, 120-KE-5, 120-KE-6, and 120-KE-9 waste sites.
- Began backfilling AB waste site area.

100-K AF Waste Site Area

- Excavation activities complete at the 100-K-103 and 100-K-79:9 waste sites. A verification sampling instruction (VSI) has been approved for the collection of closeout verification samples.
- A WSRF has been submitted to EPA for their review and approval to "reject" the 100-K-100 waste site.

100-K AH Waste Site Area

- Excavation activities complete at the 1607-K5 waste site. A VSI has been prepared and approved for the collection of closeout verification samples.

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

- A gamma ray spectrometer (gamma camera) has been procured and gamma camera setup survey plan prepared. A contract has been approved for PNNL to perform isotopic analysis of floor paint samples from the floor of the East Bay of the basin.

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

- The Basis of Estimate, work breakdown structure dictionary, and project schedule for the 105-K West Fuel Storage Basin deactivation and demolition are being uploaded to the CHPRC Long Range Plan file (TPA-M-16-178 and TPA-M-16-181).

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

RL-0041 600 Area Revegetation

Revegetation:

600-403 and 600-393 are the only two sites currently identified for revegetation under RL41 in FY18. Revegetation of the two sites is required per 300-FF-2 ROD, ESD #1 and #2.

A brief summary for each is included below:

600-403 Site

Thorium contaminated soil will be remediated at the 600-403 site from an area approximately 15' x 15'. A radiological survey is being planned for later this FY to delineate the contaminated area to support remediation planning. The area will be backfilled as necessary depending on the size/depth of the remediated area prior to revegetation.

600-393 Site

Lead pieces from deteriorated batteries visible on the surface will be removed from an old dumping ground. The soil immediately surrounding and under the batteries will also be removed for disposal. The total area remediated is expected to be approximately 20' x 20' and will be achieved through potholing rather than scraping the entire area due to cultural restrictions on the use of heavy equipment in the area. A geophysical and utility survey of the impacted area and waste characterization sampling of the soil is planned for FY17 to support remediation planning.

Due to the small size of the two sites and the heavy equipment/vehicle restriction at the 600-393 site, CHPRC proposes that revegetation of both sites be limited to hand broadcasting of seed and hand raking the seeded area. Locally derived and adapted grass, forb and shrub seeds will be used in alignment with the guidance provided in the Hanford Revegetation Manual. Currently there is no plan to issue a new revegetation subcontract based on the limited amount of FY18 work. The revegetation contract is expected to be rebid in FY18 for the FY19 scope which will include 618-10 and associated neighboring sites.

300 Area Progress Report for May and June 2017

300-296 Soil Remediation Activity:

- The contract for the Transfer Mechanism was awarded and final designs are progressing for the three main soil removal systems (Remote Excavation Arm System and the Cameras and Lighting System) to support planned approval for fabrication activities in late July / early August. The functional requirements documents and the procurement specifications for upcoming system and component procurements (Floor Saw System, Radiation Detectors, and Cell Dams) are progressing in accordance with the project plan.
- The contract has been awarded for mockup modifications required to support equipment installations. Staging has been installed and an initial core drill was completed on 12 July. All modifications are scheduled to be completed by the end of FY17 to support equipment installation in the mockup starting in Q1 FY18.
- Since the initial Airlock entry in April 2017, six additional entries have been completed and the majority of the legacy plastic debris has been packaged and removed for disposal. In conjunction with debris packaging and removal, targeted decontamination activities have been successful in reducing radiation levels in the Airlock as an element of the overall dose management strategy. Additional Airlock entries are planned in August and September to package and remove the majority of the remaining debris prior to the start of loose debris removal in the adjoining cells.
- The Request for Proposals for a contract to perform 324 building modifications was issued and a Bidder's Conference was conducted on 20 June for twenty three representatives from nine companies. The conference included a project overview presentation, a tour of the Mockup, and a tour of the 324 facility to ensure that the bidder's had a detailed understanding of the work scope (Interference Removal, Cell Sealing, Core Drilling, and Structural Modifications). Proposals are due on 13 July to support a planned award by the end of August.

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 2,799 sample trips scheduled for collection. Prior to May 2017 the program had successfully completed 2798 of the FY 2016 sample trips. One FY 2016 sample trip was collected in June 2017.

FY 2017 Sample Trip Status by Month Scheduled (May and June 2017)

For Fiscal Year 2017 Hanford's overall Site groundwater monitoring program has 2,683 sample trips scheduled for collection.

During May 2017 (FY 2017, month eight) the program successfully completed 1 sample trip scheduled for March 2017, 2 sample trips scheduled for April 2017, and 178 sample trips scheduled for May 2017. This brings the total number of Fiscal Year 2017 sample trips scheduled through May 2017 completed to 1,755 of 1,858 scheduled. And the total number of sample trips scheduled for May 2017 completed to 206 of 216 scheduled.

During June 2017 (FY 2017, month nine) the program successfully completed 2 sample trips scheduled for April 2017, 28 sample trips scheduled for May 2017, 217 sample trips scheduled for June 2017, and 3 sample trips scheduled for July 2017. This brings the total number of Fiscal Year 2017 sample trips scheduled through June 2017 completed to 2,002 of 2,092 scheduled. And the total number of sample trips scheduled for June 2017 completed to 217 of 234 scheduled.

The total number of Fiscal Year 2017 sample trips completed at the end of June 2017 is 1,924

FY 2017 Sample Trip Status by Month Collected (May and June 2017)

During May 2017, 181 Fiscal Year 2017 sample trips were successfully completed of which 3 were scheduled prior to May 2017 and 178 were scheduled for May 2017.

During June 2017, 250 Fiscal Year 2017 sample trips were successfully completed of which 30 were scheduled prior to June 2017 and 217 were scheduled for June 2017. There were also 3 sample trips scheduled for July 2017 that were collected in June 2017.

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

Awaiting Sample Trips

Of the Fiscal Year 2016 and 2017 sample trips scheduled for June 2017 and prior, there are 83 that are awaiting collection. Of these, 3 are being reviewed for cancellation, 13 were unsuccessful, 2 are awaiting drilling, and 65 are awaiting collection at the month end.

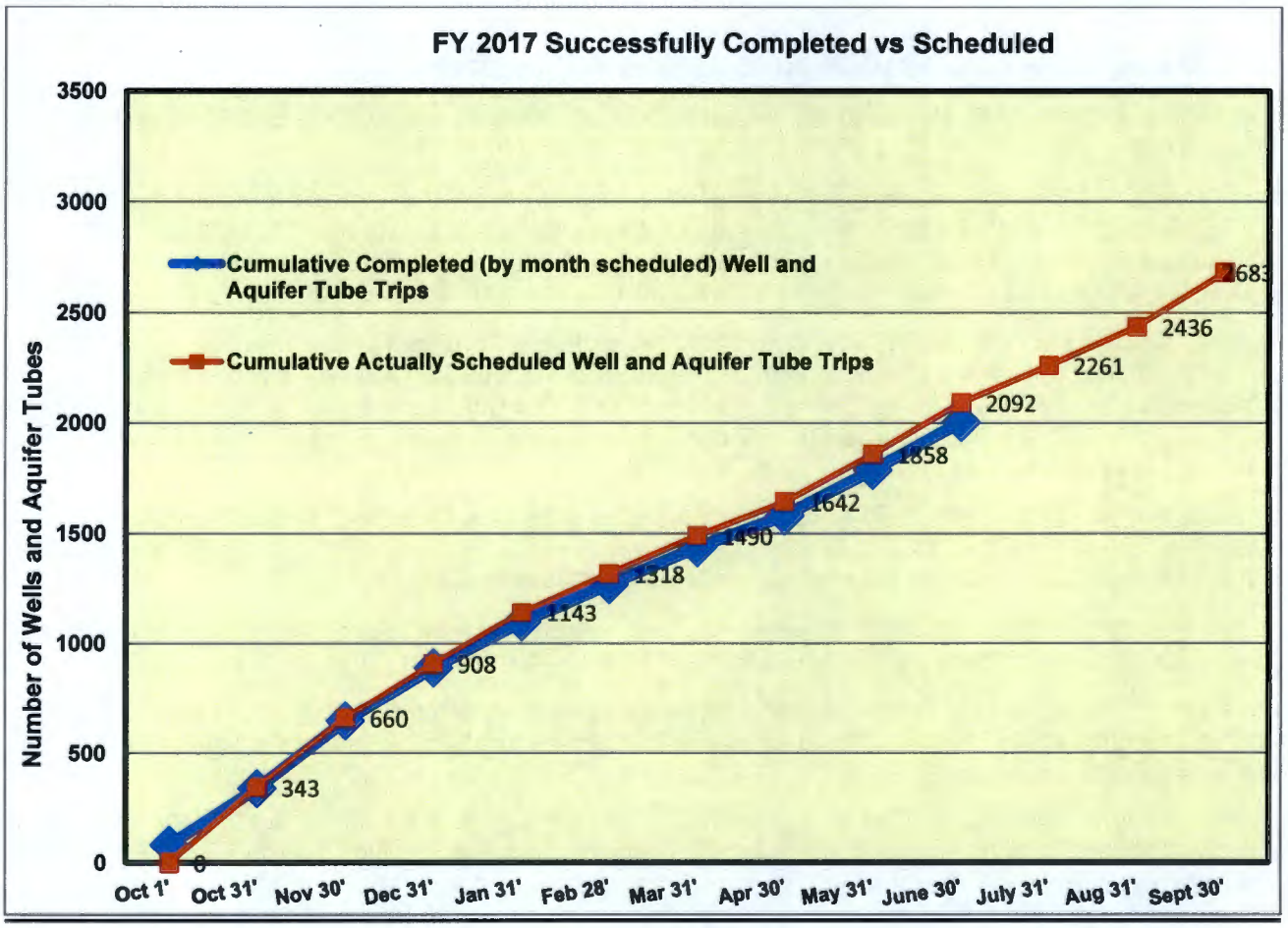
Table 3 presents the sample trips for only the river corridor that were not successfully completed as of June. Sample trips in Table 2 are grouped by fiscal month scheduled and groundwater interest area. This table clearly shows that the number of awaiting well trips decreases with time from the schedule 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 July 2017 and August 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/.



Approved Change Notices

TPA-CN-0784	DOE/RL-2014-13-ADD2, Revision 0: Remedial Design Report Remedial Action Work Plan Addendum for the 300 Area Groundwater. Figure 7-1, Schedule for Groundwater Remedy Implementation, is being replaced with an updated schedule.

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.
- Monitoring & Reporting:
  - ✓ Completed drilling activities at three of four new monitoring well locations in the 100-K area (199-K-228, 199-K-229 & 199-K-230).
  - ✓ Initiated well construction activities at one new monitoring well locations in June 2017 (199-K-230).
- Remedial Actions & System Modifications:
  - ✓ Completed restart activities at the KW P&T facility in early May 2017
  - ✓ Received approved MOA for proposed FY 2017 realignment activities in the 100-K area on June 12, 2017.

    The volume of groundwater treated and mass of Cr(VI) removed for the 100-K P&T systems (KX, KR-4, and KW) during May and June are:

Month	Gallons Treated (mgal)	Hexavalent Chromium Removed (kg)
May	62.3	4.3
June	58.2	4.8

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

P&T System	Treated (mgal)	Removed (kg)
KR-4	114	1.1
KW	28.0	5.4
KX	319	18.2
Total	461	24.7

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

Table K-1. Monthly Summary of Influent and Effluent CrVI 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	May	1, 2, 1, 3	2	0, 0, -1, 0	0
	June	1, 2, 2.3, 2	2	-1, -2, 1.5, 0	0
100-KW	May[c]	36, 30, 33, 32, 32	33	0, 0, 0, 0, 0	0
	June	36, 30, 37, 33, 31, 32, 31	33	0, 0, 3, 0, 1.5, 1.5, 0, -2	0.5
100-KX	May	14, 13, 13, 23	16	-1, 0, 6, 0	1
	June	17, 18, 16, 17, 22, 16, 18, 18, 18	18	-1, 1, 3, 1.5, 1, 1, 1, 2, 2	1

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

b. 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.

c. The hexavalent chromium sample collected 5/2/2017 is currently under review due to an apparent sample swap between the influent and effluent tanks. Values excluded from this table until issues are resolved.

- ✓ In May 2017, the average pumping rates were 310, 249, and 834 gpm for the KR-4, KW, and KX systems, respectively.
- ✓ In June 2017, the average pumping rates were 253, 307, and 787 gpm for the KR-4, KW, and KX systems, respectively. Table K-2 shows the current number of 100-KR-4 OU P&T wells available for use versus the wells that operated during June. 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 June 2017.

Table K-2. June 2017 100-KR-4 OU P&T Well Summary

Operable Unit	Well Configuration	Current OU Total	Total Operating in June 2017*
100-KR-4	Extraction	37	36[c]
	Injection	19	19

*Based on the monthly average rate for a given well greater than zero; A change in the total number of operational wells could be caused by:

a. Well is off for well maintenance

b. Well is off for plume management purposes

c. Well is off based on the operational configuration (Well 199-K-225)

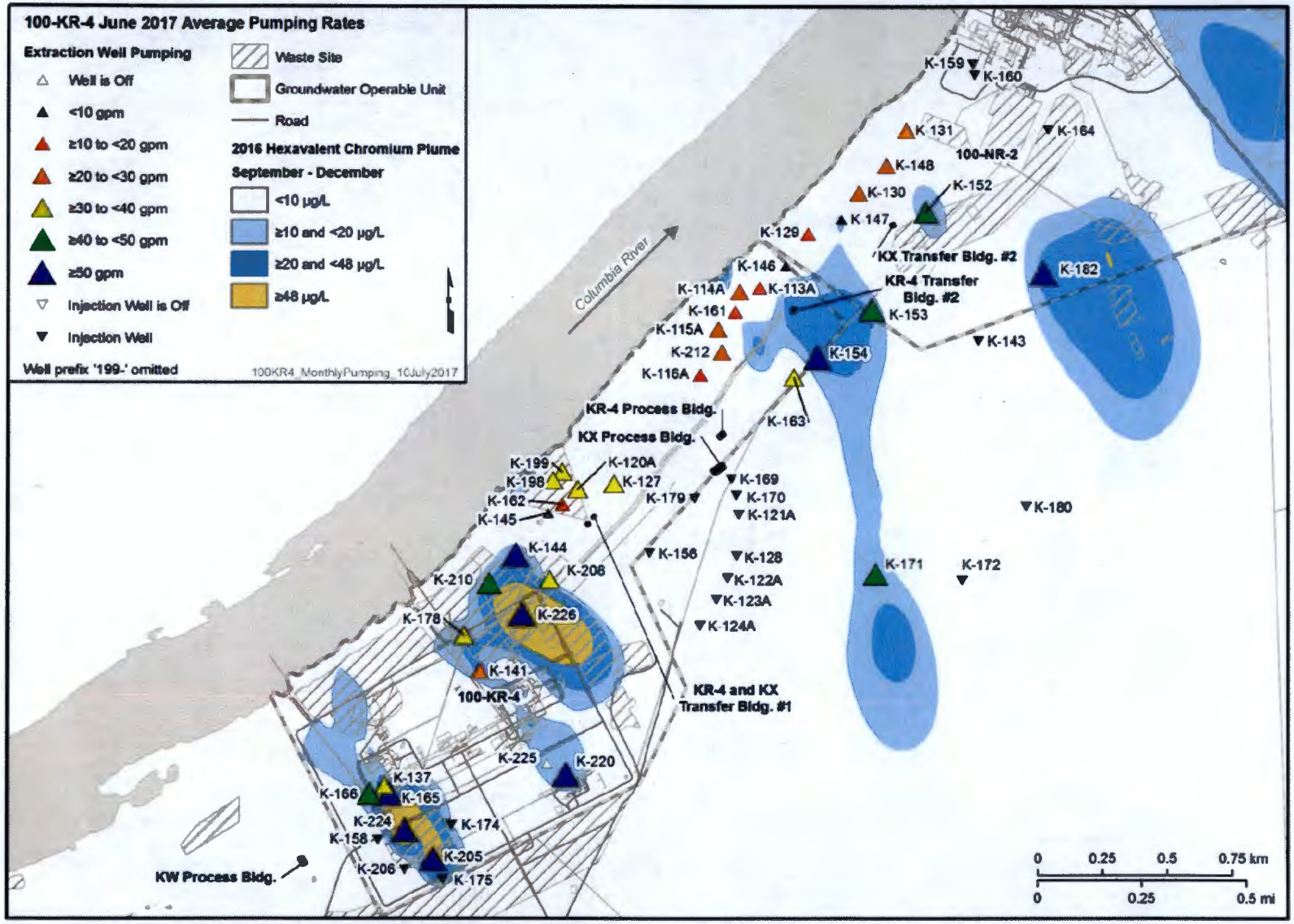


Figure K-2. June 2017 Average Pumping Rates for the 100-KR-4 P&T System

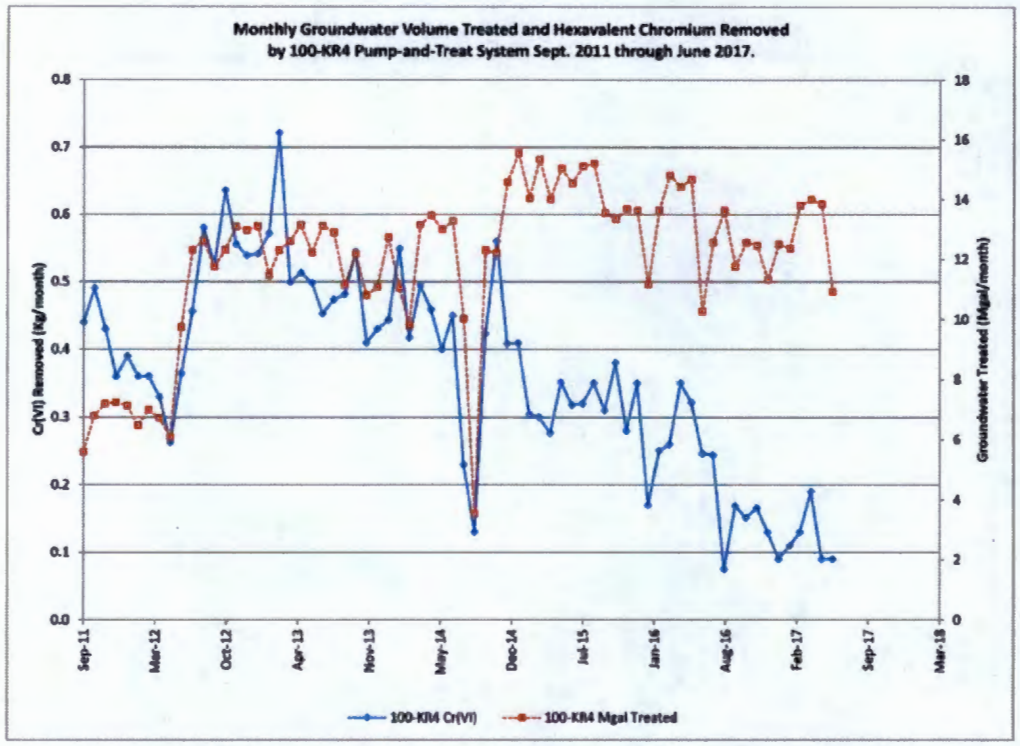


Figure K-3. Monthly Cr(VI) Removed and Groundwater Volume Treated by 100-KR-4 Pump-and-Treat, September 2011 through June 2017

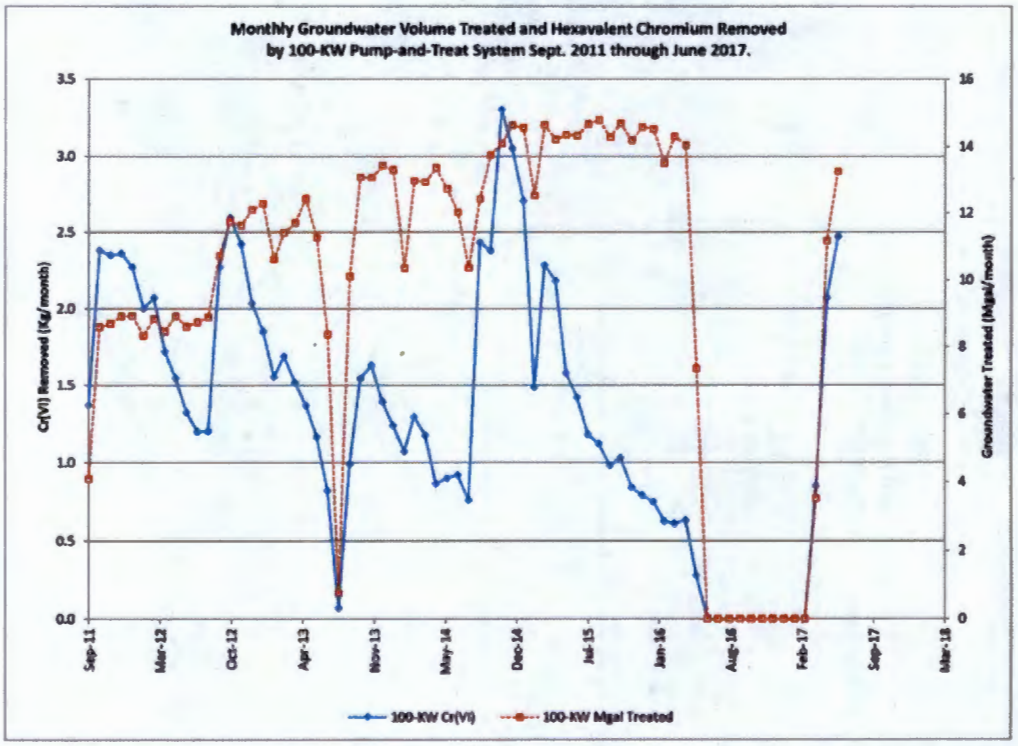


Figure K-4. Monthly Cr(VI) Removed and Groundwater Volume Treated by 100-KW Pump-and-Treat, September 2011 through June 2017.

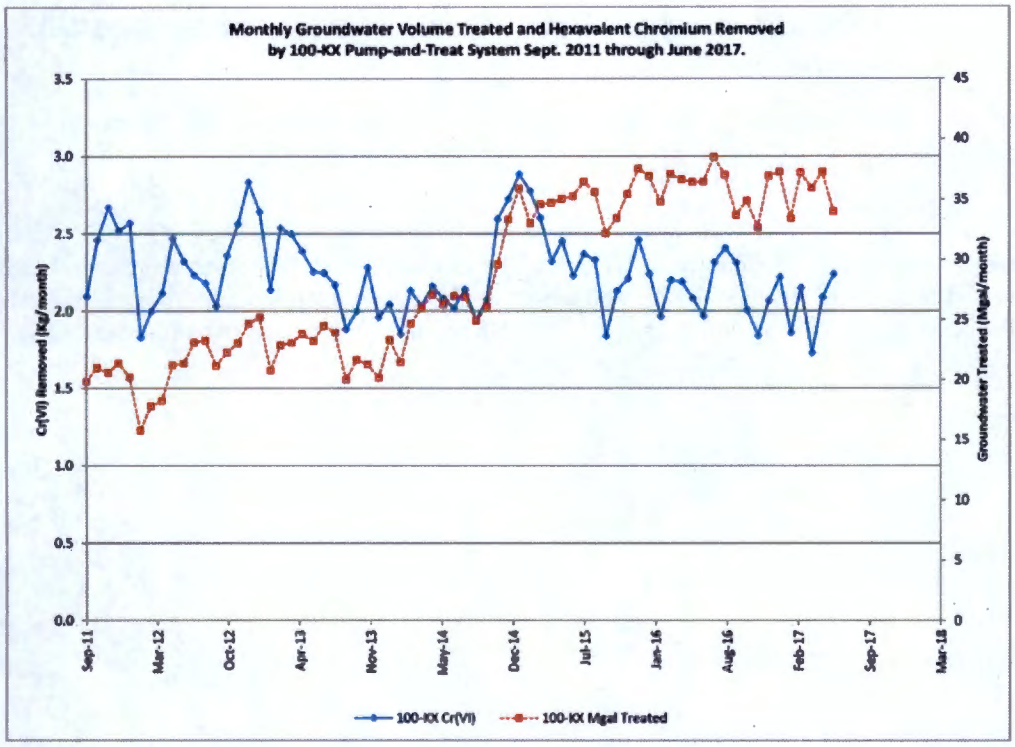


Figure K-5. Monthly Cr(VI) removed and groundwater volume treated by 100-KX pump-and-treat, September 2011 through June 2017.

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

- CERCLA Process Implementation:
  - ✓ EPA continues with their review of the Draft A, RI/FS Report and Proposed Plan for 100-BC-1, 100-BC-2 and 100-BC-5. This is under review.
- Monitoring & Reporting:
  - ✓ Five wells were sampled as scheduled in June 2017. In four wells Cr(VI) continued previous trends, not responding to the high river stage. In 199-B3-47 (the well closest to the river, which tends to have the highest concentrations), Cr(VI) declined due to mixing with river water. The lab has not yet reported strontium-90 and tritium results.

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

- CERCLA Process Implementation
  - ✓ The fourth round of quarterly groundwater samples was completed in June and shipped to labs for analyses. This data will be included in the supplemental groundwater baseline risk assessment.
  - ✓ The RI/FS Schedule is being finalized for preparing Draft B.
  - ✓ The white paper on applicable PRG cleanup value for shoreline based on biota concentration guides (BCGs) is being completed to incorporate RL comments.
  - ✓ A CRR is being drafted for reinjection and expansion of the 100-N PRB.
- 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 high river stage respirometry test was concluded in July 2017, as planned. The respirometry test report is being prepared and will be included in the annual bioventing performance report.

Product Recovery

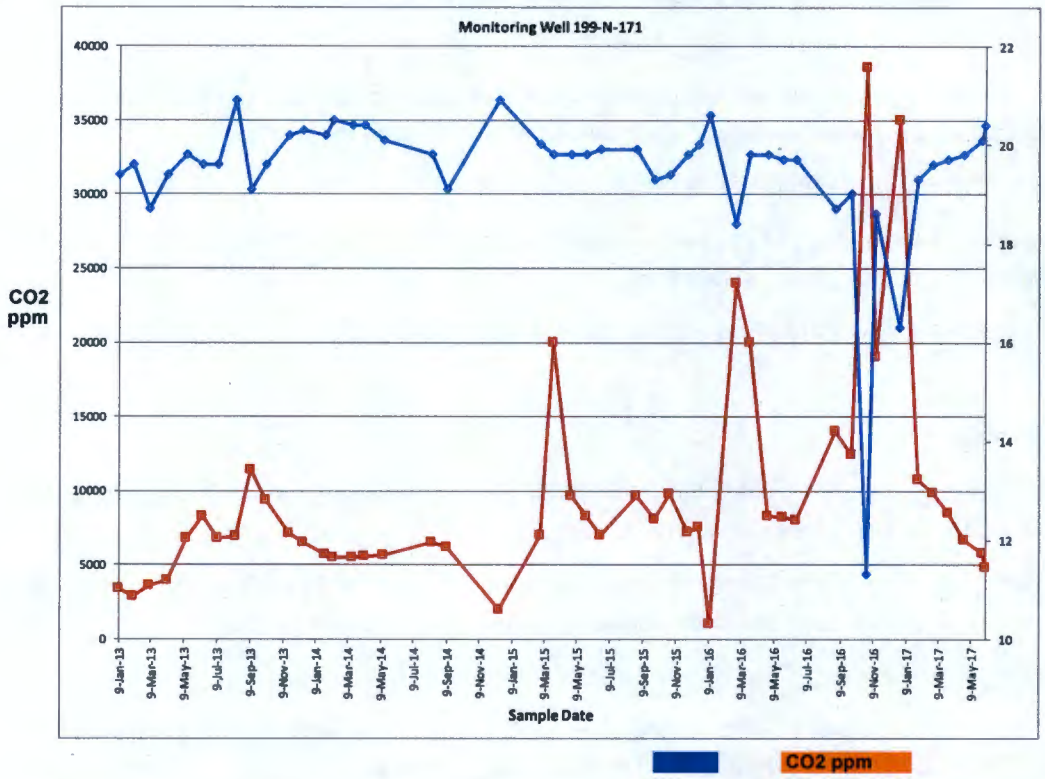
- ✓ The sponge assemblies in wells 199-N-18 and 199-N-193 were replaced on July 10, 2017. A total of 350 g of TPH was removed from groundwater from the two wells. Assuming that the TPH is diesel, with a density of 0.85 g/mL, a combined 0.41 L of diesel was removed.

Monitoring and Reporting- *Aquifer Tubes*

- ✓ Tubes C7934, C7935, and C7936 are located adjacent to one another (Figure NR-2), 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 April 24, 2017. Tritium and strontium-90 concentration trends for all three aquifer tubes through April 24, 2017 are shown in Figures NR-3 and NR-4, respectively.

  Samples could not be collected at these aquifer tubes in May 2017 because the water level was too high, but samples were collected on June 28, 2017; results are not yet available. These aquifer tubes are scheduled for sampling again in July 2017.

  - 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 the declining trends indicate that the mass of tritium flushed to groundwater during waste site remediation is 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 and strontium-90 results.
  - DOE is proposing that the sampling frequency be revised to quarterly after the July 2017 event.



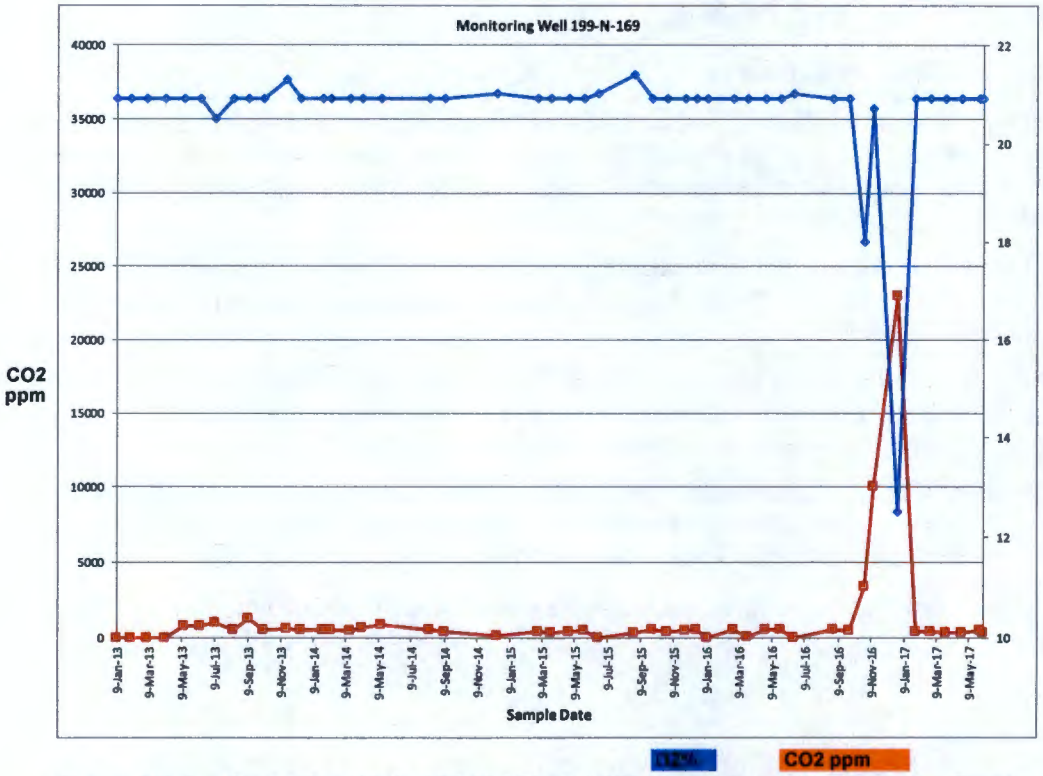


Figure NR-1. Bioventing Wells 199-N-169 and 199-N-171 Monthly Sampling Trends.

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
28-Mar-17	19.7	8480	20.9	290
26-Apr-17	19.8	6630	20.9	320
31-May-17	20.1	5780	20.9	450
5-Jun-17	20.4	4800	20.9	300

Note- CHPRC is prepared to begin discussions with RL regarding reducing the sampling frequency for monthly gas sampling at the bioventing system.

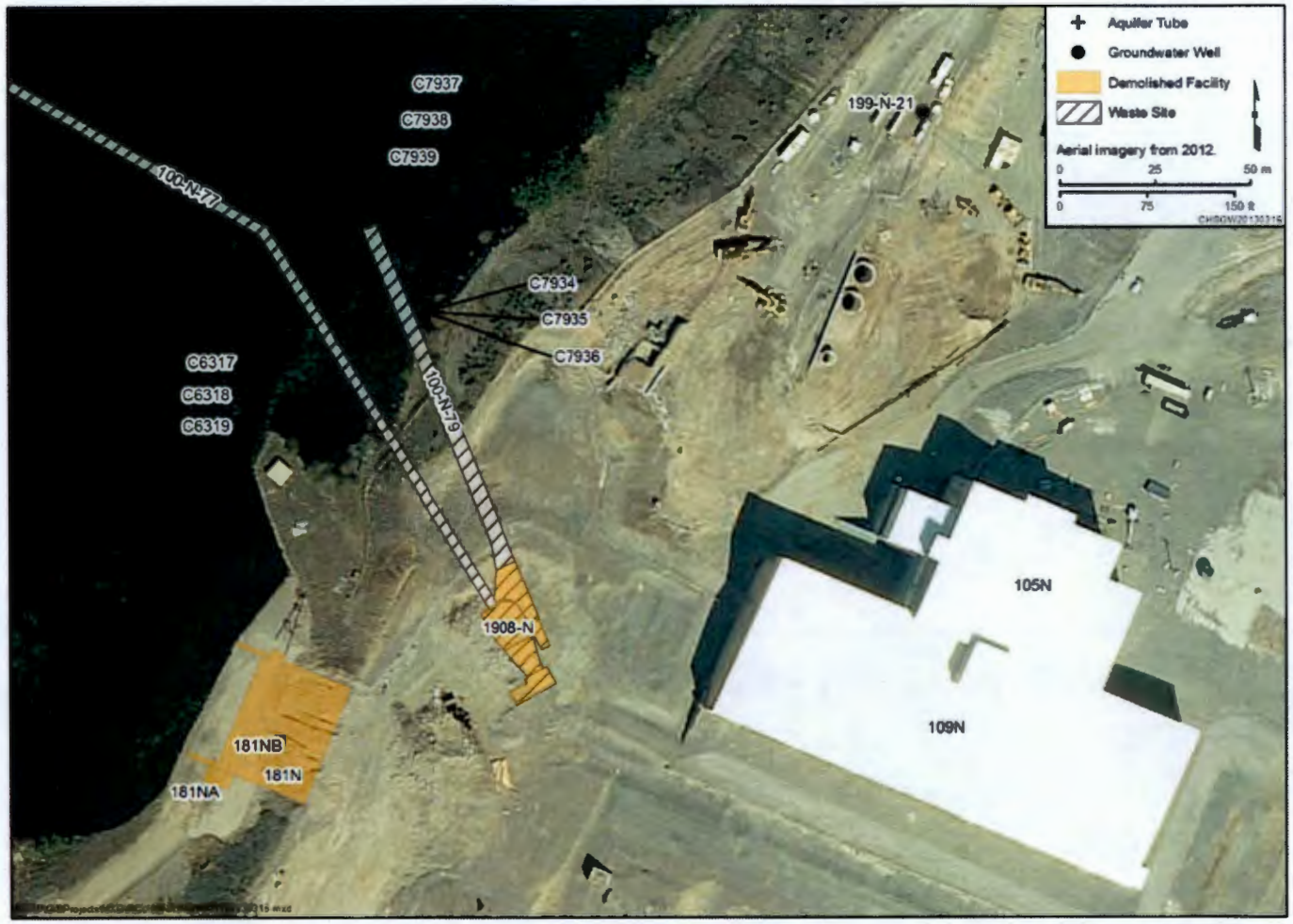


Figure NR-2. Locations of Aquifer Tubes C7934, C7935, and C7936

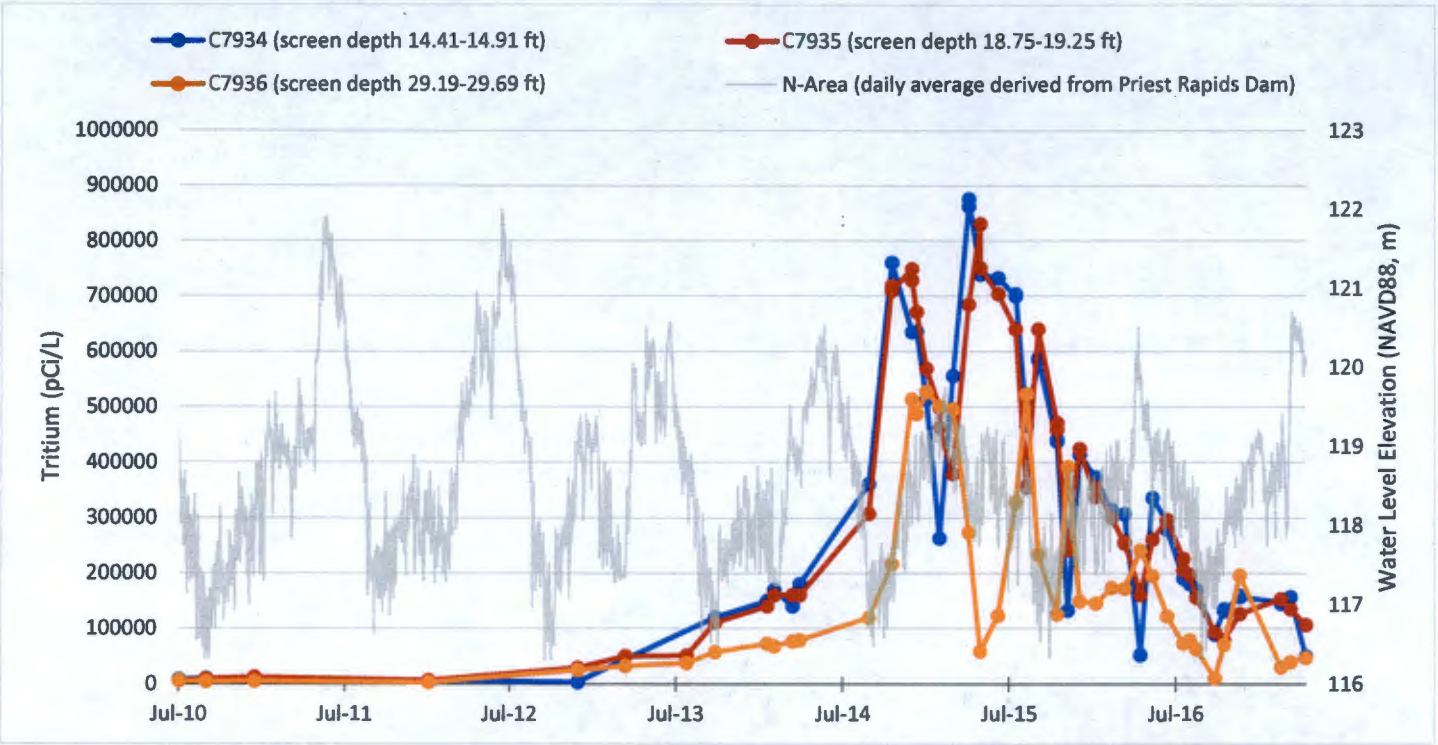


Figure NR-3. Tritium Trends through April 2017 at Aquifer Tubes C7934, C7935, and C7936.

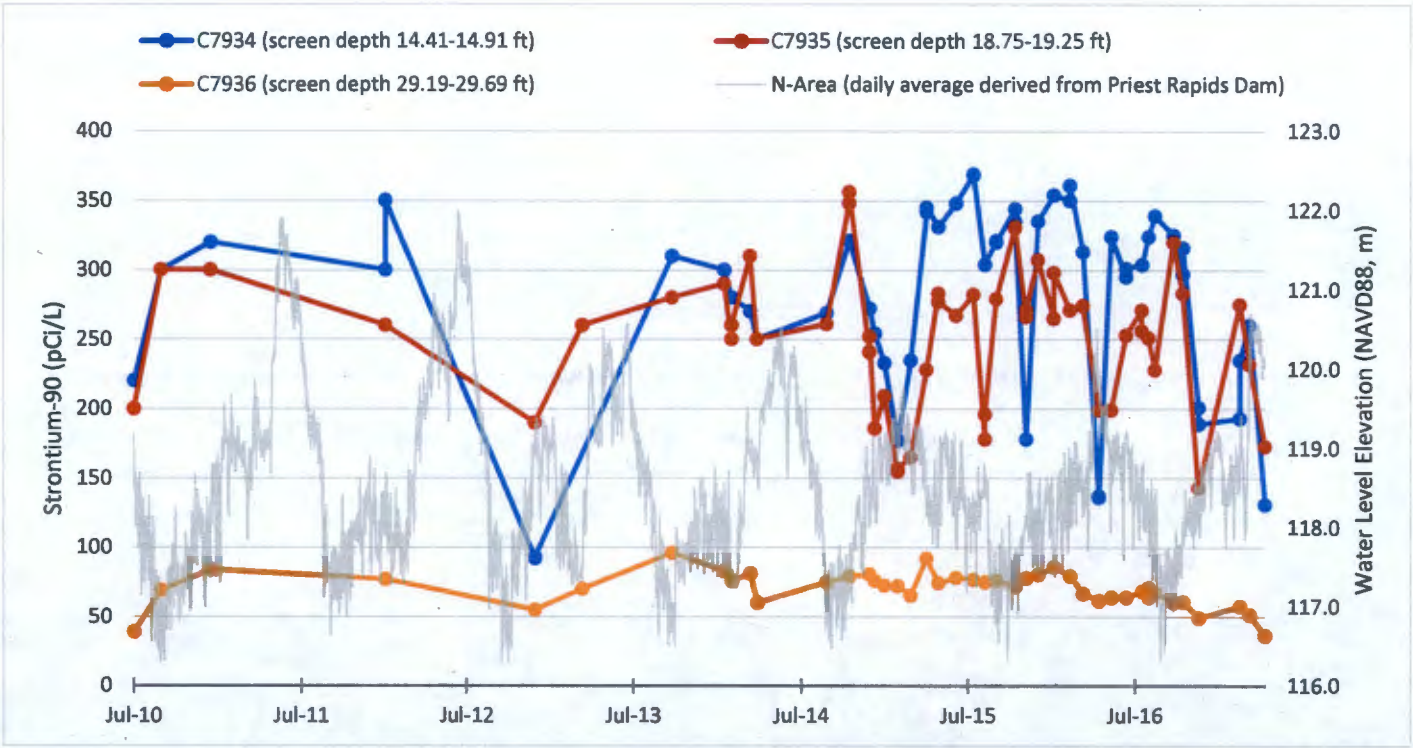


Figure NR-4. Strontium-90 Trends through April 2017 at Aquifer Tubes C7934, C7935, and C7936.

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

- CERCLA Process Implementation:
  - ✓ RL, Ecology and EPA are currently responding to comments on the Draft Record of Decision (ROD).
- Ringold Upper Mud (RUM) Aquifer Pump Test
  - ✓ Comments on the draft report were received from DOE on June 20, 2017. Proceeding with finalizing document.
- Remedial Actions & System Modifications
  - ✓ Completed installation of five new Automatic Water Level Network (AWLN) stations in 100-D and seven new AWLN stations in 100-H in May 2017.
  - ✓ Completed cultural review for FY 2017 P&T alignments received on June 22, 2017.
  - ✓ The volume of groundwater treated and mass of Cr(VI) removed from the 100-HR-3 P&T systems during May and June 2017 are:

Month	**Gallons Treated (in millions)**	**Hexavalent Chromium Removed (kg)**
May	81	4.7
June	84	5.0

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

P&T System	Treated (mgal)	Removed (kg)
DX	298	26.4
HX	286	19.7
Total	585	46.1

The influent and effluent Cr(VI) concentrations (measured weekly) for the 100-HR-3 systems during May and June are presented in Table H-1.

  - ✓ A summary of the number of extraction and injection wells in the 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 is exhibited at both DX and HX. Influent concentrations at DX continue to decline as remediation progresses.

Table H-1. Monthly Summary of Influent and Effluent CrVI 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	May	19, 18, 16, 20, 20	19	-2, -2, 0, 1, 1	0
	June	21, 16, 17, 18, 19	18	-1, 1.5, 1.5, 2, -1, -1	0
100-HX	May	15, 13, 10, 13, 13	13	0, 0, 1, 0, 0	0
	June	10, 12, 13, 17	13	0, 0, 1, 0	0

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

b. 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. June 2017 100-HR-3 OU P&T Well Summary

Operable Unit	Well Configuration	Current OU Total	Total Operating in June 2017*
100-HR-3	Extraction	85	85
	Injection	28	25[a]

*Based on the monthly average rate for a given well greater than zero; A change in the total number of operational wells could be caused by:

a. Well is off for plume management purposes (Wells 199-H4-71, 199-H4-72, and 199-H4-73)

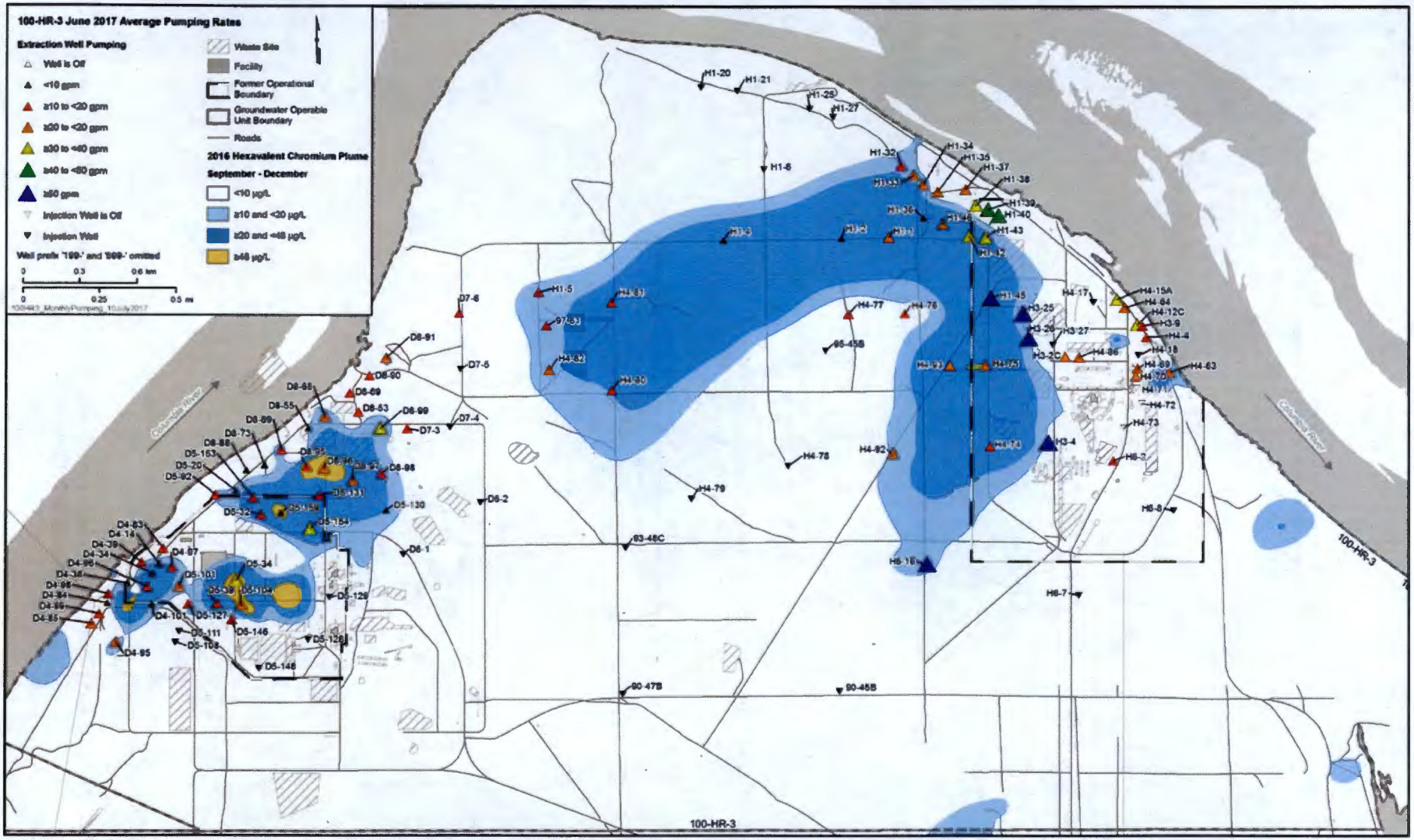


Figure H-1. June 2017 Average Pumping Rates for the 100-HR-3 P&T System.

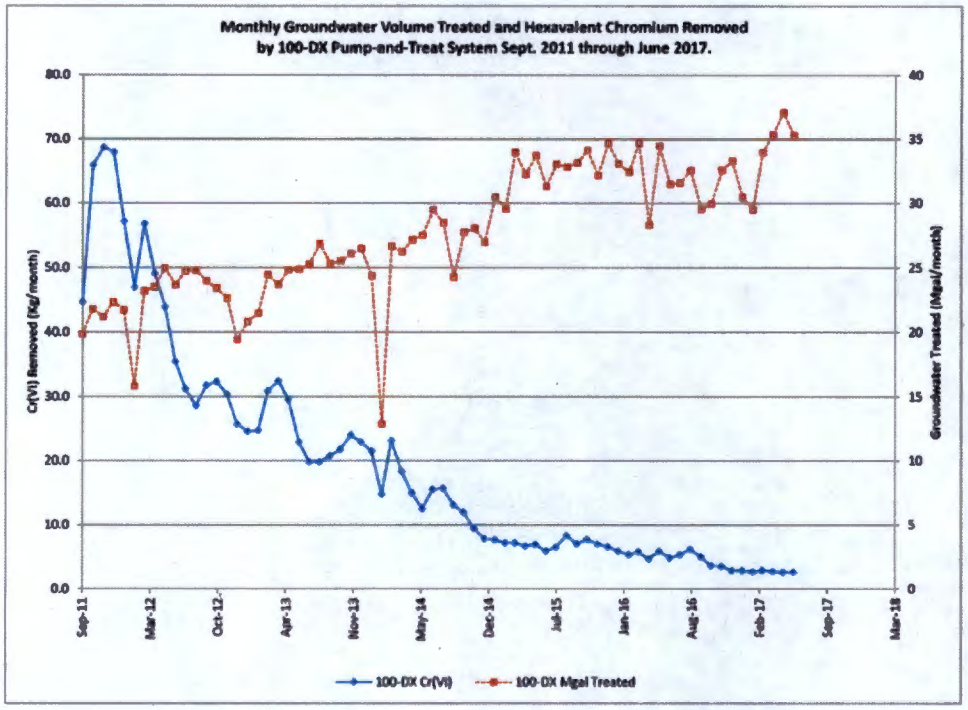


Figure H-2. Monthly Cr(VI) Removed and Groundwater Volume Treated by 100-DX Pump-and-Treat, September 2011 through June 2017.

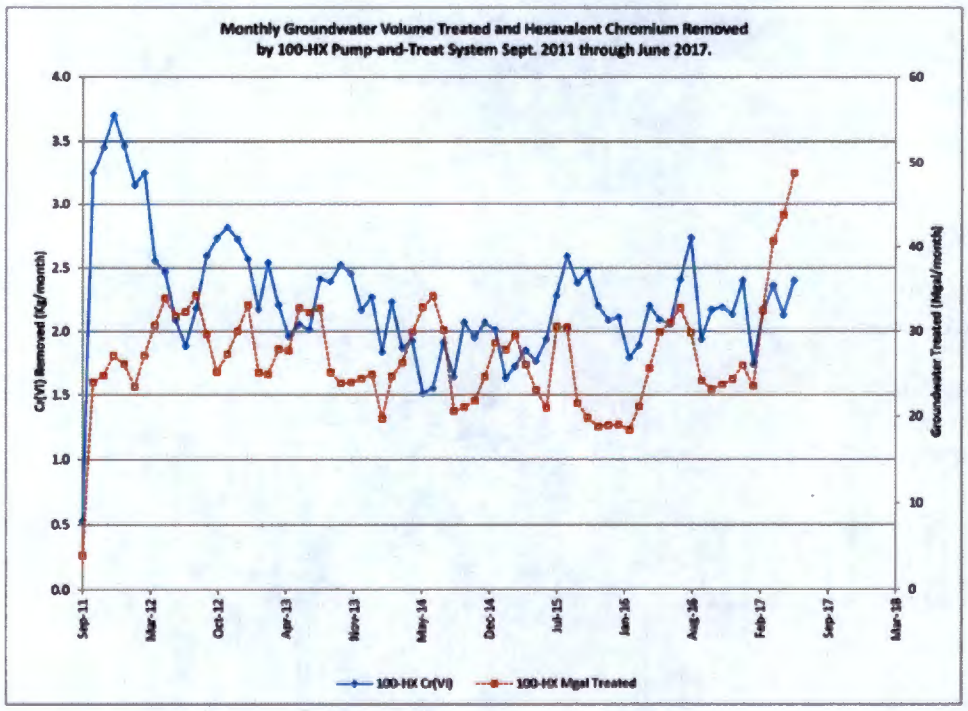


Figure H-3. Monthly Cr(VI) Removed and Groundwater Volume Treated by 100-HX Pump-and-Treat, September 2011 through June 2017.

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

- CERCLA Process Implementation:
  - ✓ Nothing new to report
- Monitoring & Reporting:
  - ✓ RL, EPA, and CHPRC held a workshop on June 19, 2017 to review groundwater data quality objectives and select locations for Phase 2 monitoring wells. Participants also considered other changes to the monitoring program. RL is reviewing the meeting minutes. CHPRC will use the results to plan well drilling in FY-19 and prepare a change notice for the groundwater SAP.
  - ✓ The six "phase 1" monitoring wells (Figure F-1) were sampled as scheduled in June. CHPRC ran additional analyses (cations and anions) to follow up on changes in nitrate and specific conductance in some wells in March. Not all of the results had been loaded into HEIS at this time.
  - ✓ Nitrate and specific conductance increased sharply in well 699-67-26 in June (Figure F-2). Other major ions also increased (Figure F-3). CHPRC is investigating possible causes of the changes (e.g., variation in flow direction, sampling protocol, or vertical distribution), and scheduled the well for a sampling event in August.
  - ✓ The SAP required quarterly monitoring of the new wells for one year, which ended in June 2017, then a decrease to annually. However, because of changes observed in some of the wells in March and June, CHPRC scheduled five of the six new wells for an extra sampling in August. Major cations and anions will again be analyzed.
  - ✓ The next comprehensive sampling event is in October 2017.

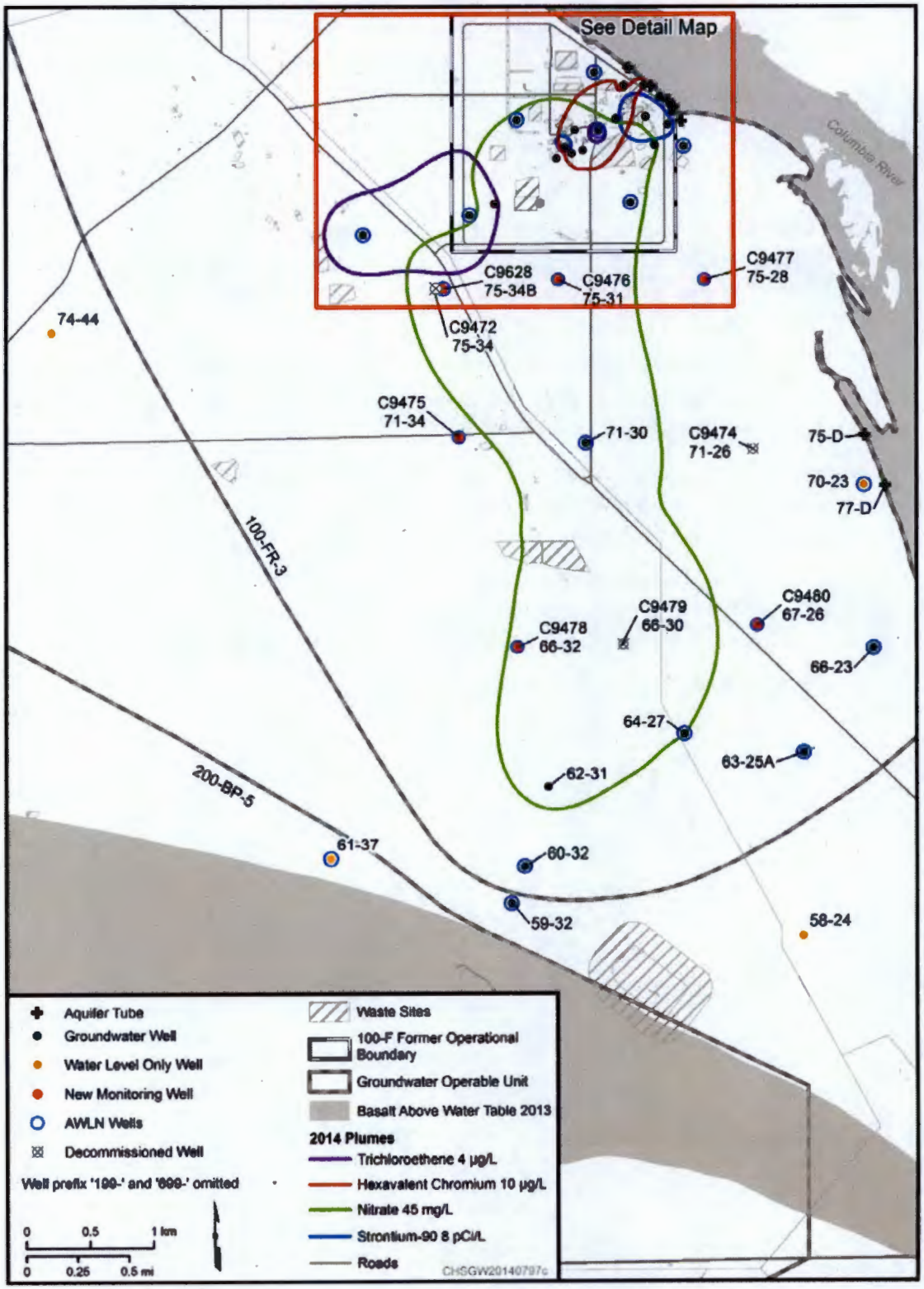


Figure F-1. Locations of 100-FR-3 Monitoring Wells

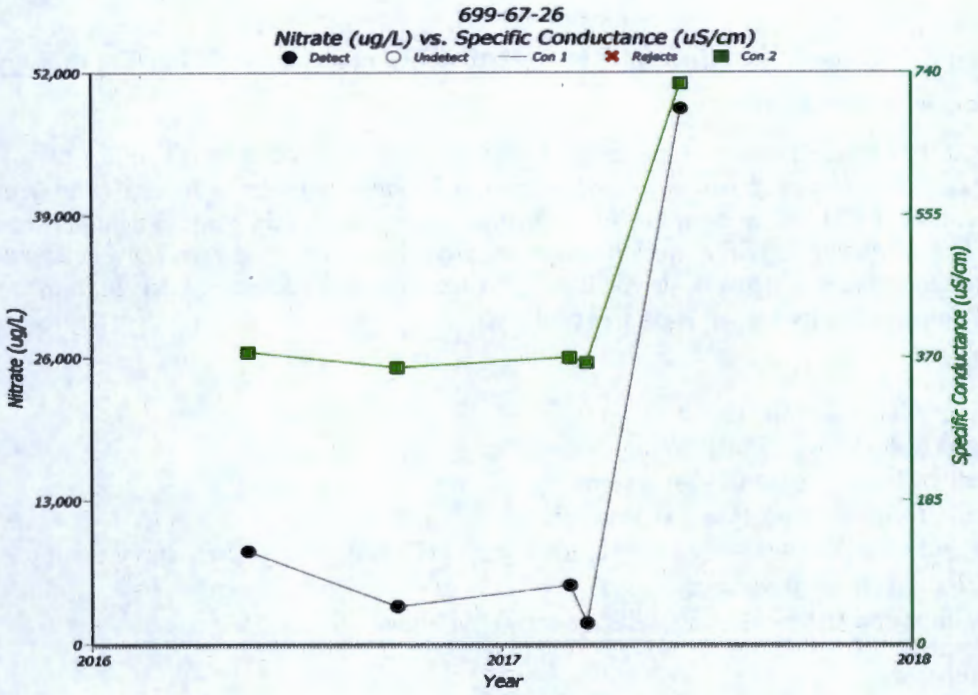


Figure F-2. Nitrate and Specific Conductance in 100-FR-3 Well 699-67-26

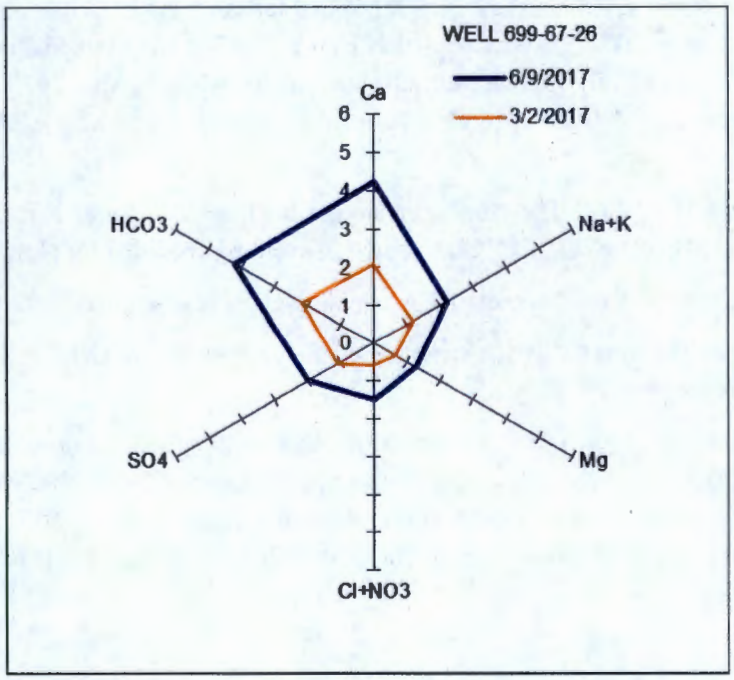


Figure F-3. Major Ion Chemistry in Well 699-67-26

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

- CERCLA Process Implementation:
  - ✓ On May 31, 2017 RL (via Tri-Party Agreement Change Notice TPA-CN-0784 to DOE/RL-2014-13-ADD 2, Revision 0: *Remedial Design Report/Remedial Action Work Plan Addendum for the 300 Area Groundwater)* provided direction to CHPRC to delay the injection of polyphosphate for the Stage B uranium sequestration by one year. Stage B construction activities, work package and procedure development, and new equipment procurements have been halted and placed into a layup condition until such time as direction is received from to resume operations. Select groundwater sampling will continue.
- Remedial Actions:
  - ✓ Sequestration – Stage B Project:
    - Office and restroom trailer installation is complete
    - Chemical Delivery System Design is complete
    - Chemical Procurement contract has been delayed
    - Drilling: All 67 wells have been drilled to total depth (TD) and have concrete surface completions. They have also been successfully developed.
    - The new injection and monitoring wells are shown on Figure FF-1.
- Monitoring & Reporting:
  - ✓ 300 Area Industrial Complex: The five wells scheduled for CERCLA sampling in June 2017 were sampled as planned. The next CERCLA sampling event is scheduled for September 2017.
  - ✓ 300 Area Industrial Complex: All 52 AEA wells scheduled for sampling in December 2016 have been sampled: 47 were sampled in December 2016, 2 were sampled in January 2017, 2 were sampled in March 2017, and 1 was sampled in April 2017. As of July 11, one well scheduled for sampling in April 2017 has not been sampled. All 9 wells scheduled for sampling in June 2016 were sampled as scheduled. The next AEA sampling event is scheduled for September 2017.
  - ✓ 618-10 Burial Ground/316-4 Crib: The samples scheduled for June 2017 following remediation of the crib were collected on June 30, 2017. The next CERCLA sampling event is scheduled for November 2017.
  - ✓ 618-10 Burial Ground/316-4 Crib: The next AEA sampling event is scheduled for October 2017.
  - ✓ 618-11 Burial Ground: The next CERCLA sampling event is scheduled for October 2017. The next AEA sampling event is scheduled for October 2017.
  - ✓ 300 Area Process Trenches (316-5) RCRA Monitoring: All 8 wells scheduled for sampling in June 2017 were sampled on June 2, 2017. The final status groundwater monitoring plan for the 300 Area Process Trenches was incorporated into the Hanford Facility RCRA Permit, Revision 8c, on May 24, 2017. Under this plan, the 8 wells are sampled semiannually (2 samples per year). The next RCRA sampling event is scheduled for December 2017.

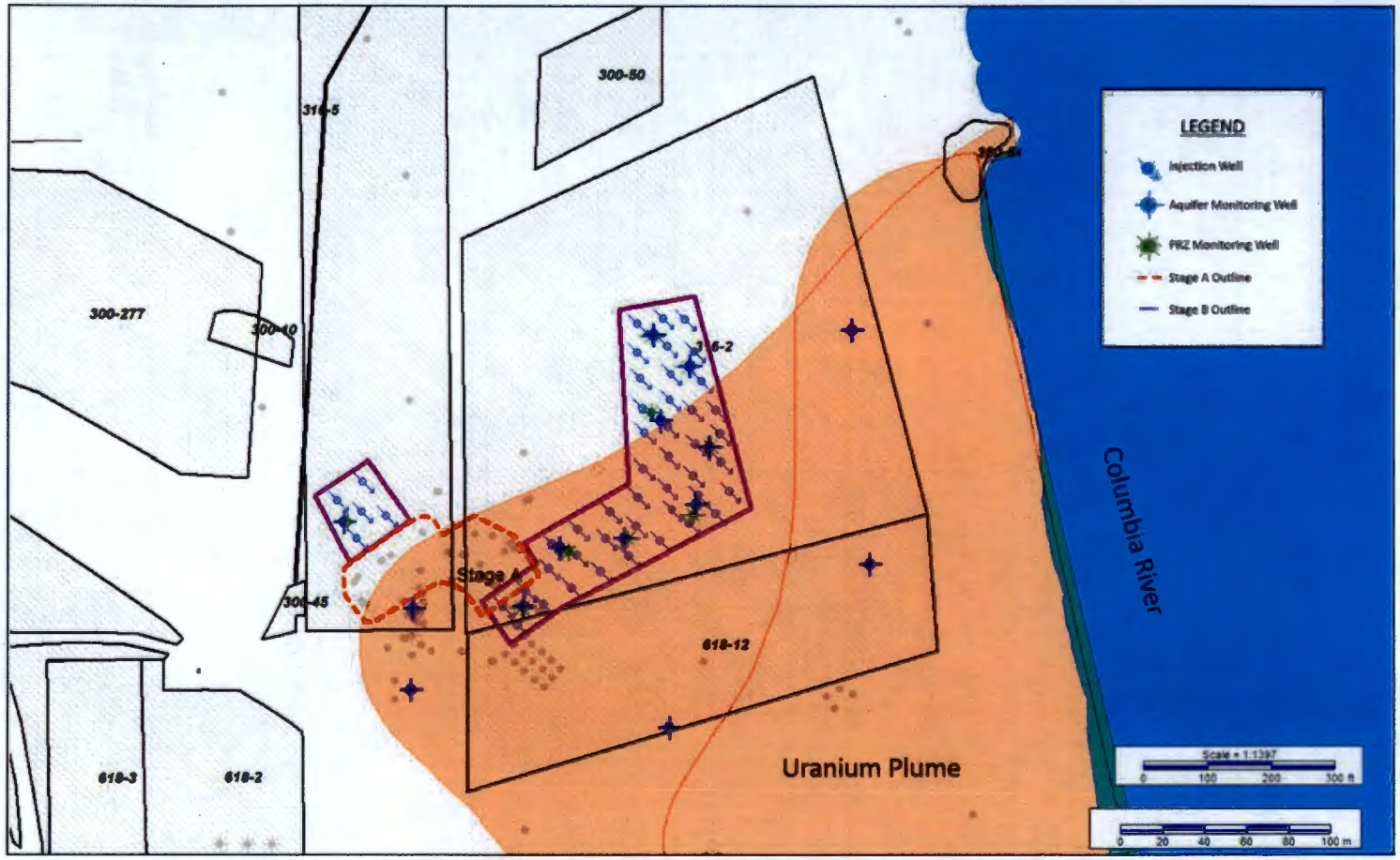


Figure FF-1. New Injection and Monitoring Wells

Hanford Sampling Program Information

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

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
		199-D3-2	199-H1-32	199-K-106A			399-1-16A
		199-D4-102	199-H1-33	199-K-107A			399-1-17A
		199-D4-103	199-H1-35	199-K-108A			399-1-23
		199-D4-15	199-H1-37	199-K-11			399-1-55
		199-D4-19	199-H1-38	199-K-110A			399-1-7
		199-D4-20	199-H1-40	199-K-111A			399-2-2
		199-D4-22	199-H2-1	199-K-116A			
		199-D5-103	199-H3-2A	199-K-119A			
		199-D5-132	199-H3-4	199-K-125A			
		199-D5-133	199-H3-6	199-K-127			
		199-D5-14	199-H3-9	199-K-13			
		199-D5-142	199-H4-11	199-K-132			
		199-D5-145	199-H4-12A	199-K-137			
		199-D5-149	199-H4-12C	199-K-138			
		199-D5-150	199-H4-13	199-K-139			
		199-D5-151	199-H4-15A	199-K-140			
		199-D5-152	199-H4-4	199-K-141			
		199-D5-160	199-H4-76	199-K-142			
		199-D5-42	199-H4-8	199-K-144			
		199-D5-97	199-H4-83	199-K-157			
		199-D8-102	199-H4-84	199-K-165			
		199-D8-4	199-H4-85	199-K-166			
		699-97-48C	199-H4-86	199-K-168			
		699-98-51	199-H4-87	199-K-173			
			199-H4-88	199-K-184			
			199-H4-89	199-K-185			
			199-H4-90	199-K-186			
			199-H4-91	199-K-189			
			699-97-43B	199-K-19			
			699-97-43C	199-K-190			
			699-97-45B	199-K-196			
			699-97-47B	199-K-20			
			699-97-60	199-K-200			
			699-98-46	199-K-201			
			699-99-42B	199-K-204			
				199-K-205			
				199-K-21			

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
				199-K-22			
				199-K-220			
				199-K-223			
				199-K-226			
				199-K-23			
				199-K-32A			
				199-K-34			
				699-78-62			

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

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
199-B3-1	199-F5-1	199-D4-14	199-H1-1	199-K-188	199-N-122		399-1-10A
199-B3-46	199-F5-4	199-D4-34	199-H1-2	199-K-202	199-N-123		399-1-10B
199-B3-47	199-F5-46	199-D4-38	199-H1-34	199-K-203	199-N-136		399-1-16A
199-B3-52	199-F5-55	199-D4-83	199-H1-36	199-K-207	199-N-146		399-1-16B
199-B5-2	199-F5-6	199-D4-84	199-H1-39	199-K-221	199-N-147		399-1-17A
	699-66-32	199-D4-85	199-H1-4	199-K-222	199-N-173		399-1-17B
	699-67-26	199-D4-98	199-H1-42	199-K-36	199-N-200		399-1-18A
	699-71-34	199-D4-99	199-H1-43		199-N-210		399-1-18B
	699-75-28	199-D5-103	199-H1-45		199-N-229		399-1-23
	699-75-31	199-D5-104	199-H1-46		199-N-247		399-1-55
	699-75-34B	199-D5-131	199-H3-25		199-N-268		399-1-63
		199-D5-146	199-H3-26		199-N-280		399-1-7
		199-D5-151	199-H3-2C		199-N-297		399-2-1
		199-D5-152	199-H4-63		199-N-315		399-2-2
		199-D5-160	199-H4-64		199-N-332		399-4-14
		199-D5-34	199-H4-69		199-N-342		699-S6-E4B
		199-D5-39	199-H4-70		199-N-346		699-S6-E4E
		199-D5-92	199-H4-74		199-N-347		699-S6-E4K
		199-D8-102	199-H4-75		199-N-348		
		199-D8-53	199-H4-76		199-N-349		
		199-D8-55	199-H4-77		199-N-350		
		199-D8-68	199-H4-83		199-N-351		
		199-D8-69	199-H4-84		199-N-352		
		199-D8-73	199-H4-88		199-N-353		
		199-D8-88	199-H4-88		199-N-354		
		199-D8-89	199-H4-92		199-N-355		
		199-D8-99	199-H4-93		199-N-356		
		199-H1-5	199-H5-16		199-N-357		
		199-H4-80			199-N-358		
		199-H4-81			199-N-359		
		199-H4-82			199-N-360		
		699-97-61			199-N-361		
					199-N-362		
					199-N-363		
					199-N-364		
					199-N-365		
					199-N-366		
					199-N-367		
					199-N-371		

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
					199-N-372		
					199-N-373		
					199-N-374		
					199-N-376		
					199-N-377		
					199-N-92A		
					199-N-96A		
					APT1		
					APT5		
					C6132		
					C6320		
					C6324		
					C7881		
					C7934		
					C7935		
					C7936		
					C7937		
					C7938		
					C7939		
					C9587		
					C9590		
					N116mArray-11A		
					N116mArray-15A		
					N116mArray-2A		
					N116mArray-3A		
					N116mArray-4A		
					N116mArray-6A		
					N116mArray-8A		
					N116mArray-9A		
					NVP2-116.0		

Table 3 Fiscal Year 2016 and 2017 Sample Trips in the River Corridor Areas awaiting at the end of June 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	0	Late	June event successful. Cancelation requested
FY 2017 Q1	100-HR-D	GROUNDWATER WELL	199-D4-29	12/1/2016	Annual	5		
		GROUNDWATER WELL	199-D4-50	12/1/2016	Annual	5		
		GROUNDWATER WELL	199-D5-18	11/1/2016	Annual	4		
	100-HR-H	AQUIFER TUBE	43-M	11/1/2016	Annual	4		Unsuccessful 10/11/2016
		AQUIFER TUBE	51-D	11/1/2016	Annual	4		
			SH-144-1	11/1/2016	Annual	4		
	100-KR		100-K SPRING 68-1	10/1/2016	Annual	3		
		GROUNDWATER WELL	199-K-178	11/1/2016	Annual	4		
	1100-EM	GROUNDWATER WELL	699-S30-E15A	12/1/2016	Annual	5		
		GROUNDWATER WELL	699-S32-E13B	12/1/2016	Annual	5		
FY 2017 Q2	100-HR-D	PROPOSED SITE	199-D5-161	1/1/2017	Annual	6		Awaiting drilling
	100-HR-H	GROUNDWATER WELL	199-H4-63	3/1/2017	Quarterly	0	Late	Unsuccessful 3/22/2017
	100-KR	AQUIFER TUBE	22-D	3/1/2017	Annual	8		
		AQUIFER TUBE	AT-K-1-D	1/30/2017	Other	3		
		AQUIFER TUBE	AT-K-1-M	1/30/2017	Other	3		
		AQUIFER TUBE	AT-K-1-S	1/30/2017	Other	3		
		AQUIFER TUBE	C7641	1/1/2017	Other	3		
		AQUIFER TUBE	C7641	1/30/2017	Other	3		
		AQUIFER TUBE	C7642	1/1/2017	Other	3		
		AQUIFER TUBE	C7642	1/30/2017	Other	3		
		AQUIFER TUBE	C7643	1/1/2017	Other	3		
		AQUIFER TUBE	C7643	1/30/2017	Other	3		
	300-FF	GROUNDWATER WELL	699-11-E4F	2/1/2017	Annual	7		
FY 2017 Q3	100-HR-D	GROUNDWATER WELL	199-D4-101	5/1/2017	Quarterly	1		
		GROUNDWATER WELL	199-D8-6	5/1/2017	Quarterly	1		
	100-HR-H	GROUNDWATER WELL	199-H4-89	6/12/2017	3 Times Annually	4		
	100-KR	GROUNDWATER WELL	199-K-181	5/1/2017	Other	1		
		GROUNDWATER WELL	199-K-224	5/1/2017	Semi-annual	1		
		GROUNDWATER WELL	199-K-225	5/1/2017	Semi-annual	1		
	100-NR	AQUIFER TUBE	C6317	6/1/2017	2 Times Annually	2		
		AQUIFER TUBE	C6318	6/1/2017	2 Times Annually	2		
		AQUIFER TUBE	C6319	6/1/2017	2 Times Annually	2		

Qtr Sched	GWIA	SAMP SITE_TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
		AQUIFER TUBE	C7934	5/1/2017	Monthly	0	Late	June event successful. Cancelation requested
		AQUIFER TUBE	C7935	5/1/2017	Monthly	0	Late	June event successful. Cancelation requested
		AQUIFER TUBE	C7936	5/1/2017	Monthly	0	Late	June event successful. Cancelation requested
		AQUIFER TUBE	C9586	6/1/2017	2 Times Annually	0	Late	Cancelation requested
		AQUIFER TUBE	C9588	6/1/2017	2 Times Annually	2		
		AQUIFER TUBE	C9589	6/1/2017	2 Times Annually	2		
		AQUIFER TUBE	N116mArray-0A	6/1/2017	2 Times Annually	2		
		AQUIFER TUBE	N116mArray-10A	6/1/2017	2 Times Annually	2		
	300-FF	GROUNDWATER WELL	699-S29-E16C	4/1/2017	Annual	9		

Table 4 Groundwater Sampling Locations in the River Corridor Areas Scheduled to be sampled in July 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		199-N-167		399-1-16A
		199-D4-96	199-H4-88		199-N-169		399-1-17A
		199-D4-97	699-88-41A		199-N-171		399-1-23
		199-D5-101	699-93-37A		199-N-172		399-1-55
		199-D5-103			199-N-173		399-1-7
		199-D5-127			199-N-18		399-2-2
		199-D5-130			199-N-183		
		199-D5-131			199-N-19		
		199-D5-151			199-N-3		
		199-D5-152			199-N-56		
		199-D5-153			199-N-96A		
		199-D5-154			C6132		
		199-D5-159			C6135		
		199-D5-160			C7934		
		199-D5-20			C7935		
		199-D5-32			C7936		
		199-D7-3			N116mArray-0A		
		199-D7-6					
		199-D8-102					
		199-D8-90					
		199-D8-91					
		199-D8-95					
		199-D8-96					
		199-D8-97					
		199-D8-98					

Table 5 Groundwater Sampling Locations in the River Corridor Areas Scheduled to be sampled in August 2017

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
	699-67-26	199-D4-101	199-H1-32	199-K-106A	199-K-150		399-1-16A
	699-71-34	199-D4-102	199-H1-33	199-K-107A	199-K-159		399-1-17A
	699-75-28	199-D4-103	199-H1-35	199-K-108A	199-K-160		399-1-23
	699-75-31	199-D4-14	199-H1-37	199-K-11	C7934		399-1-55
	699-75-34B	199-D4-34	199-H1-38	199-K-110A	C7935		399-1-7
		199-D4-38	199-H1-40	199-K-111A	C7936		399-2-2
		199-D4-83	199-H3-4	199-K-116A			399-3-12
		199-D4-84	199-H3-9	199-K-119A			399-3-19
		199-D4-85	199-H4-12C	199-K-125A			399-3-6
		199-D4-98	199-H4-15A	199-K-127			399-6-3
		199-D4-99	199-H4-4	199-K-13			399-6-5
		199-D5-103	199-H4-84	199-K-132			
		199-D5-104	199-H4-86	199-K-137			
		199-D5-146	199-H4-87	199-K-138			
		199-D5-149	199-H4-88	199-K-139			
		199-D5-150	199-H4-89	199-K-140			
		199-D5-151		199-K-141			
		199-D5-152		199-K-144			
		199-D5-160		199-K-157			
		199-D5-34		199-K-165			
		199-D5-39		199-K-166			
		199-D5-92		199-K-168			
		199-D8-102		199-K-173			
		199-D8-53		199-K-181			
		199-D8-55		199-K-184			
		199-D8-68		199-K-185			
		199-D8-69		199-K-186			
		699-97-61		199-K-188			
				199-K-189			
				199-K-19			
				199-K-190			
				199-K-196			
				199-K-20			
				199-K-200			
				199-K-201			
				199-K-202			
				199-K-203			
				199-K-204			
				199-K-205			

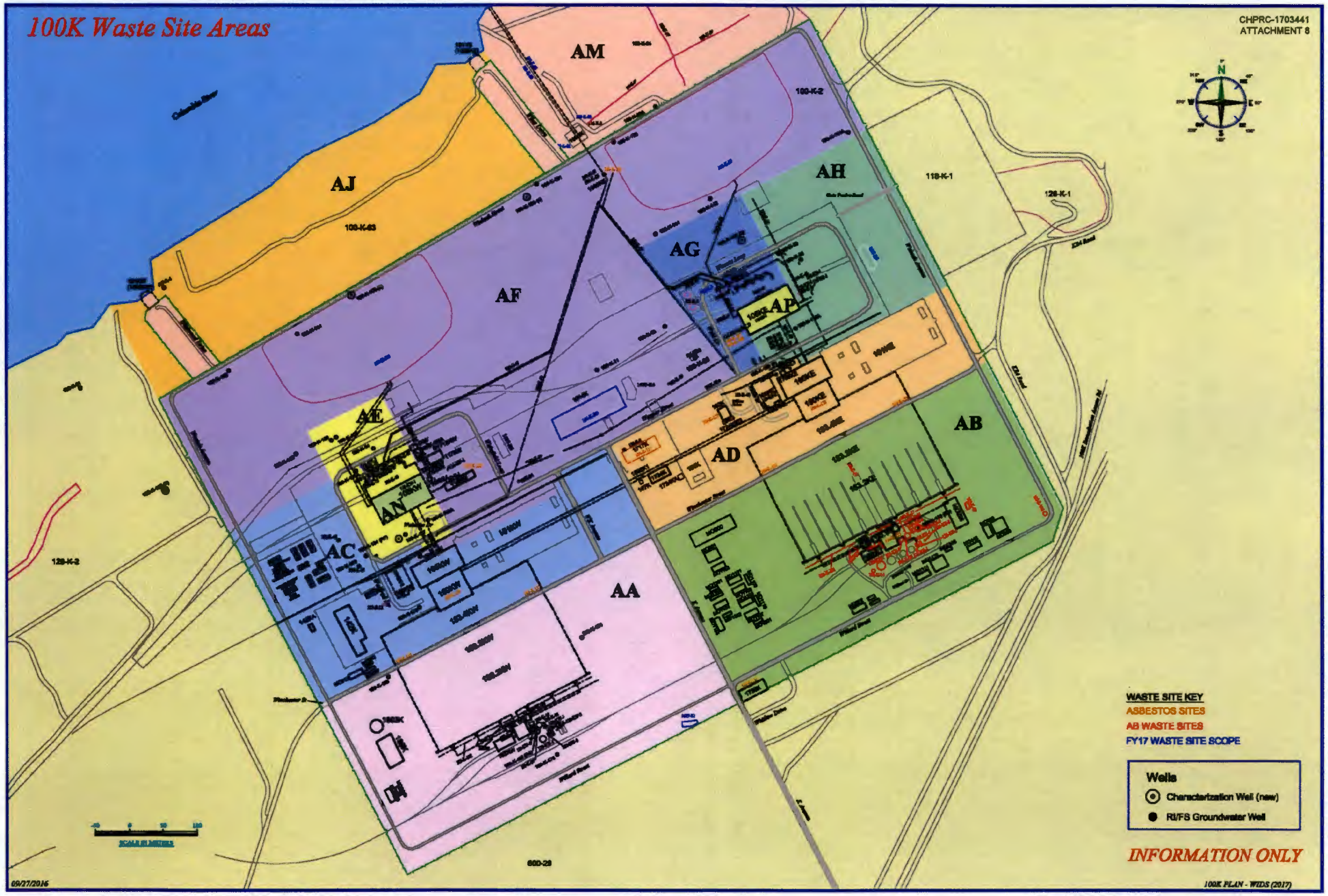
100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
				199-K-207			
				199-K-21			
				199-K-22			
				199-K-220			
				199-K-221			
				199-K-222			
				199-K-223			
				199-K-224			
				199-K-225			
				199-K-226			
				199-K-23			
				199-K-32A			
				199-K-34			
				199-K-36			
				699-78-62			

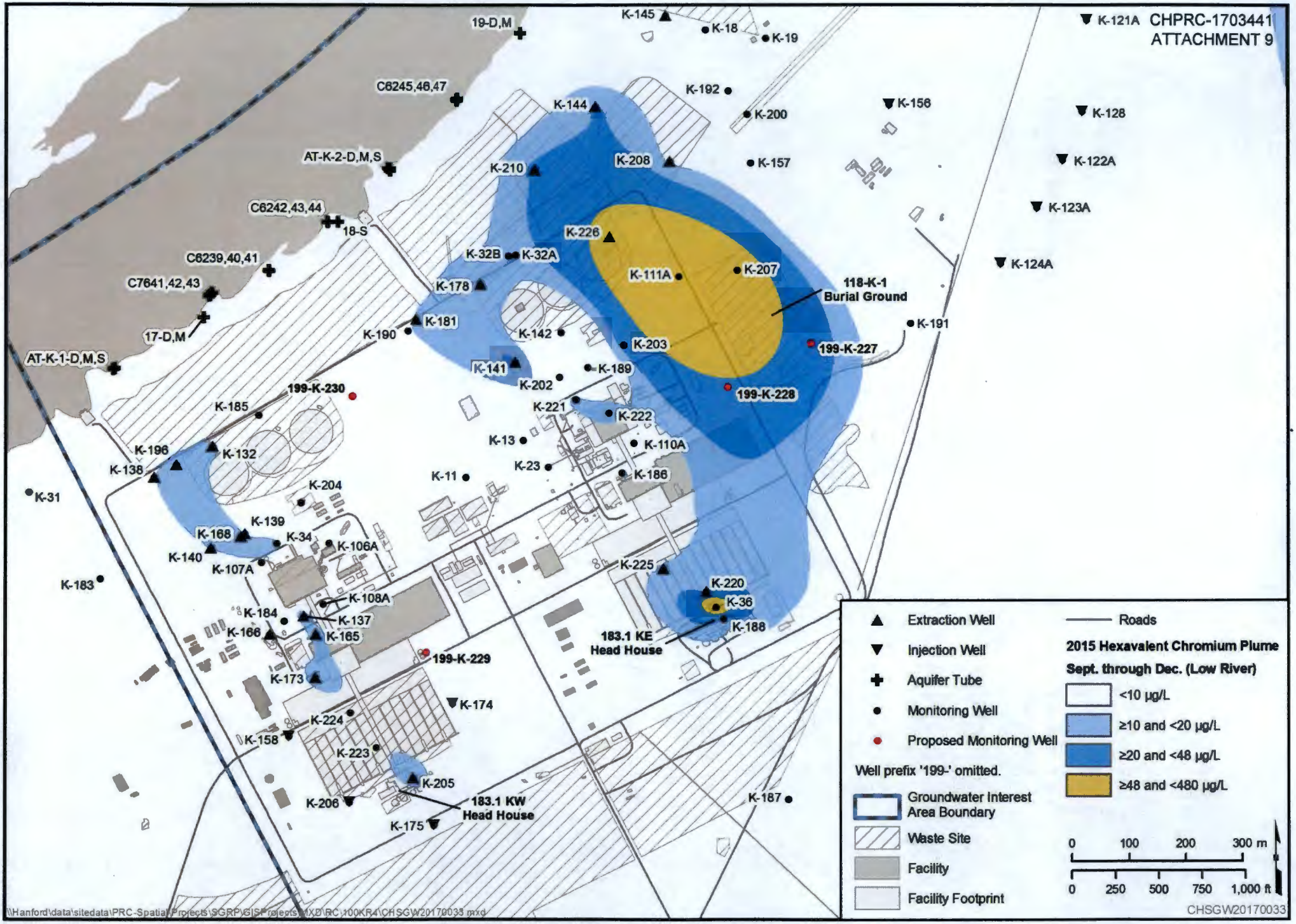
Documents Submitted to the AR
May-June 2017

Number	Title	Referencing Document
ECF-Hanford-17-0009	Calculation of Critical Means for Calendar Year 2017 RCRA Groundwater Monitoring	**DOE/RL-2016-69**

TPA Compliance Note:

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


100K Waste Site Areas
CHPRC-1703441
ATTACHMENT 8
AM
AJ
AF
AG
AH
AP
AE
AN
AC
AD
AB
AA
100-K-2
100-K-63
118-K-1
126-K-1
128-K-2
600-28
WASTE SITE KEY
ASBESTOS SITES
AB WASTE SITES
FY17 WASTE SITE SCOPE
Wells
Characterization Well (new)
RI/FS Groundwater Well
INFORMATION ONLY
09/27/2016
100K PLAN - WIDS (2017)


CHPRC-1703441
ATTACHMENT 9
19-D,M
C6245,46,47
AT-K-2-D,M,S
C6242,43,44
18-S
C6239,40,41
C7641,42,43
17-D,M
AT-K-1-D,M,S
K-145
K-18
K-19
K-192
K-200
K-157
K-156
K-128
K-122A
K-123A
K-124A
K-121A
K-144
K-208
K-210
K-226
K-32B
K-32A
K-111A
K-207
118-K-1
Burial Ground
K-178
K-181
K-190
K-142
K-203
K-191
199-K-227
K-141
K-202
K-189
199-K-228
199-K-230
K-185
K-221
K-222
K-13
K-110A
K-196
K-132
K-138
K-23
K-186
K-11
K-31
K-204
K-139
K-168
K-34
K-106A
K-140
K-107A
K-225
K-183
K-220
K-36
K-108A
K-184
K-137
K-188
K-166
K-165
183.1 KE
Head House
199-K-229
K-173
K-174
K-224
K-158
K-223
K-205
K-206
183.1 KW
Head House
K-175
K-187
Extraction Well
Injection Well
Aquifer Tube
Monitoring Well
Proposed Monitoring Well
Well prefix '199-' omitted.
Groundwater Interest Area Boundary
Waste Site
Facility
Facility Footprint
Roads
2015 Hexavalent Chromium Plume
Sept. through Dec. (Low River)
<10 µg/L
≥10 and <20 µg/L
≥20 and <48 µg/L
≥48 and <480 µg/L
0 100 200 300 m
0 250 500 750 1,000 ft
CHSGW20170033
\\Hanford\data\sitedata\PRC-Spatial\Projects\SGRP\GISProjects\MXD\RC\100KR4\CHSGW20170033.mxd

100 & 300 Area Unit Manager Meeting
TPA-CN List
July 20, 2017

- **TPA-CN-0784 DOE/RL-2014-13-ADD2, Revision 0: Remedial Design Report Remedial Action Work Plan Addendum for the 300 Area Groundwater.**
  Figure 7-1, Schedule for Groundwater Remedy Implementation is being replaced with an updated schedule.

TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 0784	TPA CHANGE NOTICE FORM	Date: 5/31/2017
Document Number, Title, and Revision: DOE/RL-2014-13-ADD2 Rev 0: Remedial Design Report Remedial Action Work Plan Addendum for the 300 Area Groundwater		Date Document Last Issued: 6/10/2015
Approved Change Notices Against this Document: TPA-CN-700		
Originator: S. N. Balone		Phone: 376-0236

Description of Change:
Figure 7-1, Schedule for Groundwater Remedy Implementation, is being replaced with an updated schedule.

J.R. Franco (**DOE**) and B.W. Simes (**Lead Regulatory Agency**) agree that the proposed change modifies an approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement*.

Figure 7-1 on page 7-2 (as modified by TPA-CN-700) is replaced with a new figure to reflect the postponement of the Stage B Uranium Sequestration System Installation Completion Report, completion of the Stage B Uranium Infiltration/Injection, and the Uranium Sequestration Completion Report.

Note: Include affected page number(s) page 7-2

Justification and Impacts of Change:
The schedule for Stage B is postponed to perform and evaluate additional groundwater monitoring. This postponement reflects the agreement between RL and EPA reached during our meeting on May 30, 2017.

Approvals:

J.R. Franco DOE Project Manager	6/1/2017 Date	[X] Approved [ ] Disapproved
B.W. Simes EPA Project Manager	6/1/2017 Date	[X] Approved [ ] Disapproved
NA Ecology Project Manager	Date	[ ] Approved [ ] Disapproved

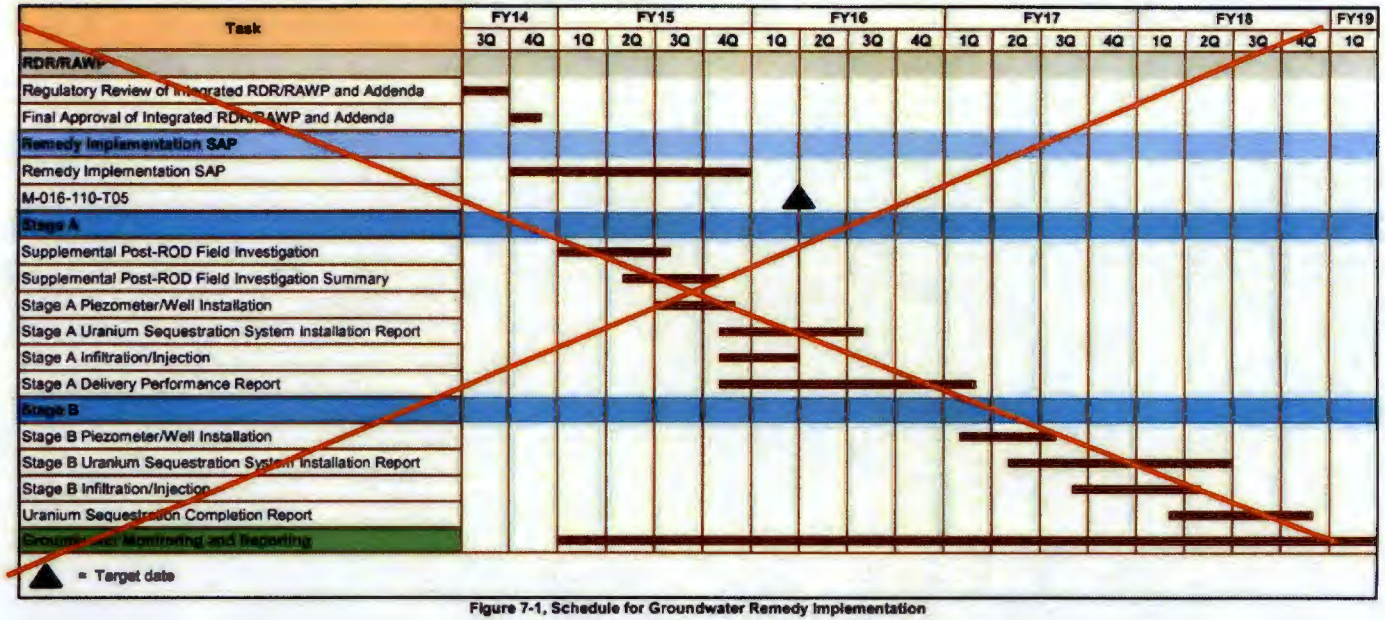


Figure 7-1, Schedule for Groundwater Remedy Implementation

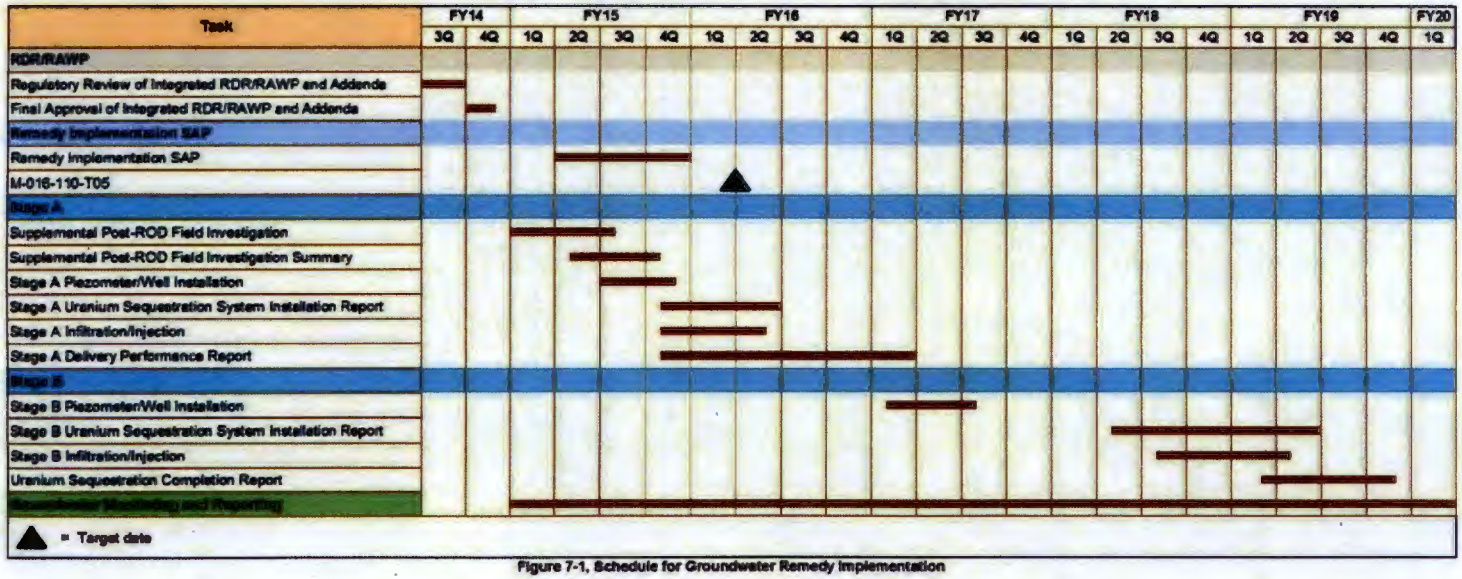


Figure 7-1, Schedule for Groundwater Remedy Implementation