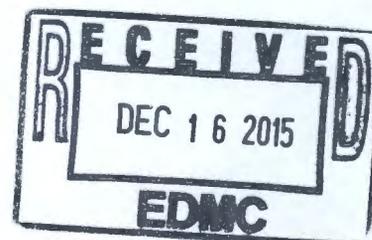


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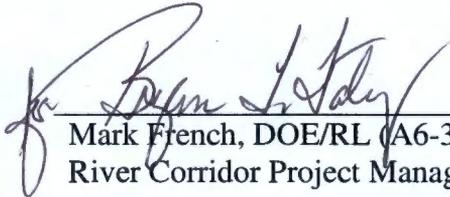
100/300 AREA UNIT MANAGER MEETING ATTENDANCE AND DISTRIBUTION

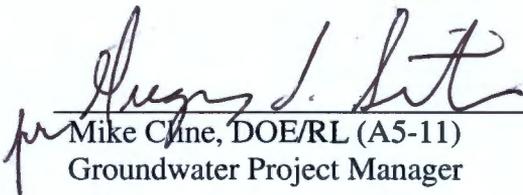
NAME	E-MAIL ADDRESS	MSIN	COMP
Childers, Heather	Original +1 copy	H6-08	ADREC
Cline, Michael	Michael.Cline@rl.doe.gov	A5-11	DOE
French, Mark	Mark.French@rl.doe.gov	A6-38	DOE
Menard, Nina	NMEN461@ECY.WA.GOV	H0-57	ECO
Guzzetti, Chris	Guzzetti.Christopher@epa.gov	A3-46	EPA
Hadley, Karl A	karl.hadley@wch-rcc.com	H4-21	WCH

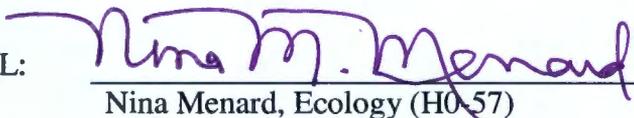


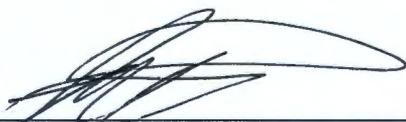
100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MEETING MINUTES

November 12, 2015

APPROVAL:  Date 12/10/15
Mark French, DOE/RL (A6-38)
River Corridor Project Manager

APPROVAL:  Date 12/10/15
Mike Cline, DOE/RL (A5-11)
Groundwater Project Manager

APPROVAL:  Date 12/10/15
Nina Menard, Ecology (H0-57)
Environmental Restoration Project
Manager

APPROVAL:  Date 12-10-15
Laura Buelow, Rod Lobos, or Christopher
Guzzetti, EPA (B1-46)
100 Area Project Manager

100 & 300 AREA UNIT MANAGER MEETING MINUTES

Groundwater and Source Operable Units; Facility Deactivation, Decontamination, Decommission, and Demolition (D4); Interim Safe Storage (ISS); Field Remediation (FR); Mission Completion; and 100-K Sludge Treatment Project and 100-K Facility Demolition and Soil Remediation Projects

November 12, 2015

ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) – The next meeting will be held December 10, 2015, at the Washington Closure Hanford (WCH) Office Building, 2620 Fermi Avenue, Room C209.
- Attendees/Delegations – Attachment A is the list of attendees. Representatives from each agency were present to conduct the business of the UMM. Attachment B are delegations from Michael Cline to Steven Balone and Gregory Sinton and from Nina Menard to Alicia Boyd.
- Approval of Minutes – The October 8, 2015, meeting minutes were approved by the U.S. Environmental Protection Agency (EPA), Washington State Department of Ecology (Ecology), and U.S. Department of Energy, Richland Operations Office (RL).
- Action Item Status – The status of action items was reviewed and updates were provided (see Attachment C).
- Agenda – Attachment D is the Regular Session meeting agenda.

EXECUTIVE SESSION (Tri-Parties Only)

An Executive Session was not held by RL, EPA, and Ecology prior to the November 12, 2015, UMM.

100-K AREA (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides a status of the 100-K Sludge Treatment Project and the 100-K Facility Demolition and Soil Remediation projects. No issues were identified and no agreements or action items were documented.

100-B/C AREA (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for Washington Closure Hanford (WCH) Closure Operations activities at the 100 areas (B/C, D, H, and N), 618-10, and the 300 Area. Attachment 4 provides the Field Remediation schedule for 100-B, 100-D, 100-H, 100-N, and 100-IU-2/6. No issues were identified and no agreements or action items were documented.

100-N AREA (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for WCH Closure Operations activities at the 100 areas (B/C, D, H, and N), 618-10, and the 300 Area. Attachment 4 provides the Field Remediation schedule for 100-B, 100-D, 100-H, 100-N, and 100-IU-2/6. No issues were identified and no action items were documented.

Agreement 1: Attachment 5 provides an Ecology and DOE approved Tri-Party Agreement change notice TPA-CN-699 to modify the *Interim Action Waste Management Plan for the 100-NR-2 Operable Unit*, DOE/RL-2000-41, Revision 1, to update Appendix A to add 7 new aquifer tubes to the 100-NR-2 Well List.

100-D & 100-H AREAS (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for WCH Closure Operations activities at the 100 areas (B/C, D, H, and N), 618-10, and the 300 Area. Attachment 4 provides the Field Remediation schedule for 100-B, 100-D, 100-H, 100-N, and 100-IU-2/6. No issues were identified and no agreements or action items were documented.

100-F & 100-IU-2/100-IU-6 AREAS (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for WCH Closure Operations activities at the 100 areas (B/C, D, H, and N), 618-10, and the 300 Area. Attachment 4 provides the Field Remediation schedule for 100-B, 100-D, 100-H, 100-N, and 100-IU-2/6. No issues were identified and no agreements or action items were documented.

300 AREA – 618-10/11 (GROUNDWATER, SOILS)

Attachment 3 provides status and information for WCH Closure Operations activities at the 100 areas (B/C, D, H, and N), 618-10, and the 300 Area. No issues were identified and no agreements or action items were documented.

300 AREA - GENERAL (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 3 provides the 100 areas (B/C, D, H, and N), 618-10, and the 300 Area. Attachment 6 provides a status and attendance roster for the 300 Area Closure Project's November 5, 2015, video teleconference (VTC) meeting. No issues were identified and no action items were documented.

Agreement 1: Attachment 7 provides an EPA and DOE approved Tri-Party Agreement change notice TPA-CN-683 to update the *Waste Management Plan for 300-FF-5 Operable Unit*, DOE/RL-2000-56, Revision 2, to include three new boreholes. Additionally, two well names are being changed on page A-7 to correct well names.

ORCHARD LANDS

A meeting is being scheduled to finalize the work plan. No issues were identified and no agreements or action items were documented.

OTHER TOPICS

Rick Moren provided a presentation (Attachment 8) on Mission Support Alliance's actions to date in ISS/cocooned reactor entries. He also showed a video.

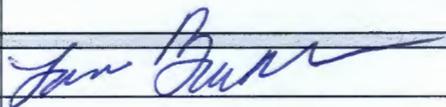
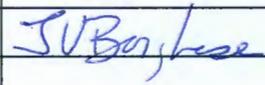
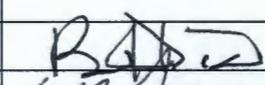
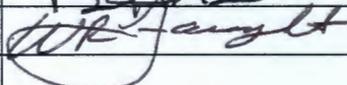
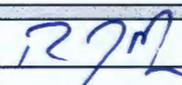
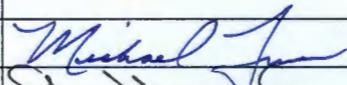
Attachment A

100/300 AREA UNIT MANAGER MEETING

ATTENDANCE

November 12, 2015

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Thomson, Jill E	thomson@wch-rcc.com	H4-21	WCH	
<i>Vannah, Ben</i>	<i>benjamin.vannah@ri.doc.gov</i>	<i>DOE</i>		<i>B. W. Vannah</i>
<i>McCurley, Clay</i>	<i>clay.mccurley@wch-rcc.com</i>	<i>WCH</i>		<i>Clay McCurley</i>

Attachment B

United States Government

Department of Energy
Richland Operations Office

memorandum

DATE:

NOV 03 2015

REPLY TO
ATTN OF:

AMRP:MWC\16-AMRP-0017

SUBJECT: DELEGATION FOR STEVE N. BALONE AND GREGORY L. SINTON AND
NOTICE TO INTERESTED PARTIES

TO: Steven N. Balone, AMRP
Gregory L. Sinton, AMRP

This memo is to notify all interested parties that I, Michael W. Cline, in the event of my absence, delegate my Hanford Federal Facility Agreement and Consent Order project manager authorities herein described to the specified members of my staff: Steven N. Balone and Gregory L. Sinton. This delegation is made pursuant to Section 4.1 of the Tri-Party Agreement Action Plan and is subject thereto.

The specific project manager authorities to be delegated are as follows:

- Conduct monthly project manager meetings for the 100 and 300 Area Operable Units (Action Plan Section 4.1)
- Approve and sign project manager meeting minutes for the 100 and 300 Area Operable Units (Action Plan Section 4.1)
- Determination of additional documentation, for the 100 and 300 Area Operable Units, to be included within the Administrative Record, as is collectively agreed upon during monthly project manager meetings (Action Plan Section 9.4)

This delegation of authority will remain in effect until superseded by a subsequent delegation. If you have any questions, please contact me on (509) 376-6070.



Michael W. Cline, Director
Soil and Groundwater Division

cc: F. W. Bond, Ecology
J. V. Borghese, CHPRC
L. C. Buelow, EPA
C. E. Cameron, EPA
D. A. Faulk, EPA
D. Goswami, ecology
J. A. Hedges, Ecology
E. Laija, EPA
R. A. Lobos, EPA
N. M. Menard, Ecology

C. P. Noonan, MSA
J. B. Price, Ecology
R. E. Piippo, MSA
B. W. Simes, EPA
D. G. Singleton, Ecology
M. J. Turner, MSA
C. L. Whalen, Ecology
Administrative Record
Environmental Portal

Hadley, Karl A

From: Menard, Nina (ECY) <nmen461@ECY.WA.GOV>
Sent: Tuesday, November 10, 2015 4:23 PM
To: Hadley, Karl A; Cline, Michael W; French, Mark S
Cc: Neath, John P; Hanson, James P; Boyd, Alicia
Subject: RE: Project Summaries for the November 12, 2015, 100/300 Area UMM

I will be out of the office on Thursday, Nov. 12. In accordance with Section 4.1 of the TPA Action Plan, Alicia Boyd will have signature authority for me to sign the UMM Meeting Minutes.

Nina M. Menard
WA State Dept of Ecology
509-372-7941 Office
509-420-6839 Cell

From: Hadley, Karl A [<mailto:karl.hadley@wch-rcc.com>]
Sent: Tuesday, November 10, 2015 4:18 PM
To: Ayres, Jeff (ECY) <JAYR461@ECY.WA.GOV>; Balone, Steven N <steven.balone@rl.doe.gov>; Barrett, Bill F <William_F_Barrett@rl.gov>; Bond, Fredrick W <FBON461@ECY.WA.GOV>; Borghese, Jane V <Jane_V_Borghese@rl.gov>; Boyd, Alicia (ECY) <aboy461@ecy.wa.gov>; Brunke, Ronald C <Ronald_C_Brunke@rl.gov>; Buckmaster, Mark A <mark.buckmaster@wch-rcc.com>; 'buelow.laura@epamail.epa.gov'; Capron, Jason M <jason.capron@wch-rcc.com>; Carlson, Richard A <richard.carlson@wch-rcc.com>; Cearlock, Christopher S <christopher.cearlock@wch-rcc.com>; 'scimon@oregontrail.net'; Clark, Clifford E <cliff.clark@rl.doe.gov>; Dagan, Ellen B <ellen.dagan@rl.doe.gov>; 'einan.david@epamail.epa.gov'; Thomson, Jill E <jill.thomson@wch-rcc.com>; Ford, Bruce H <Bruce_H_Ford@rl.gov>; French, Mark S <mark.french@rl.doe.gov>; Goswami, Dib (ECY) <DGOS461@ECY.WA.GOV>; Guercia, Rudolph F <rudolph.guercia@rl.doe.gov>; 'guzzetti.christopher@epamail.epa.gov' <guzzetti.christopher@epamail.epa.gov>; Hanson, James P <james.hanson@rl.doe.gov>; Hartman, Mary J <Mary_J_Hartman@rl.gov>; Jaraysi, Moses N <Moses_Jaraysi@rl.gov>; Koegler, Kim J <kim.koegler@wch-rcc.com>; LaRue, Deena N <deena.larue@wch-rcc.com>; Lerch, Jeffrey A <jeffrey.lerch@wch-rcc.com>; 'lobos.rod@epamail.epa.gov'; Menard, Nina (ECY) <nmen461@ECY.WA.GOV>; Morse, John G <john.morse@rl.doe.gov>; Neath, John P <john.neath@rl.doe.gov>; Parnell, Scott E <scott.parnell@wch-rcc.com>; Proctor, Megan L <Megan.Proctor@wch-rcc.com>; Rochette, Beth (ECY) <Broc461@ECY.WA.GOV>; Sands, John P <john.sands@rl.doe.gov>; Sinton, Gregory L <gregory.sinton@rl.doe.gov>; Smith, Chris <douglas.smith@rl.doe.gov>; Smith-Jackson, Noe'I (ECY) <Nsmi461@ECY.WA.GOV>; Toews, Michelle R <Michelle_R_Toews@rl.gov>; Triner, Glen C <Glen_C_Triner@rl.gov>; Vedder, Barry L <barry.vedder@wch-rcc.com>; Zeisloft, Jamie <jamie.zeisloft@rl.doe.gov>; Lawrence, Barry L <Barry.Lawrence@wch-rcc.com>; Kapell, Arthur (ECY) <akap461@ECY.WA.GOV>; Louie, Catherine S <catherine.louie@rl.doe.gov>; Day, Roberta E <Roberta_E_Day@rl.gov>; Hansen, James A <james.hansen@rl.doe.gov>; Teynor, Thomas K <thomas.teynor@rl.doe.gov>; Swartz, (Mike) J M <Mike_Swartz@rl.gov>; Turlington, Daniel R <Daniel_R_Turlington@rl.gov>; Doornbos, Marty H <Martin_H_Doornbos@rl.gov>; Crumpler, Dwayne (ECY) <dcru461@ECY.WA.GOV>; Glossbrenner, Ellwood T <ellwood.glossbrenner@rl.doe.gov>; Elliott, Wanda (ECY) <well461@ECY.WA.GOV>; 'Shelley Cimon' <scimon@oregontrail.net>; Dixon, Brian J <Brian_J_Dixon@rl.gov>; Welsch, Kim (ECY) <KIWE461@ECY.WA.GOV>; Howell, Theresa Q <theresa.howell@wch-rcc.com>; Quintero, Roger A <roger.quintero@rl.doe.gov>; Faught, Bill R <William_R_Faught@rl.gov>; Varljen, Robin (ECY) <RVAR461@ecy.wa.gov>; 'Simes.Benjamin@EPA.gov' <Simes.Benjamin@EPA.gov>; Vannah, Benjamin W <Benjamin.Vannah@rl.doe.gov>; Cline,

Attachment C

100/300 Area UMM
Action List
November 12, 2015

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status

Attachment D

100/300 Area Unit Manager Meeting
November 12, 2015
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99354
Room C209; 2:00 p.m.

Administrative:

- Approval and signing of previous meeting minutes
- Update to Action Items List
- Next UMM (12/10/2015, Room C209)

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

- 100-K Area (Steve Balone, Roger Quintero)
- 100-B/C Area (Greg Sinton, Tom Post)
- 100-N Area (Greg Sinton, John Neath)
- 100-D & 100-H Areas (Steve Balone, John Neath)
- 100-F & 100-IU-2/6 Areas (Greg Sinton, John Neath)
- 300 Area - 618-10/11 exclusively (Jamie Zeisloft)
- 300 Area (John Sands/Rudy Guercia)
- Orchard Lands (John Sands)

Special Topics/Other

- MSA's actions to date in ISS/cocooned reactor entries (Rick Moren)

Adjourn

Attachment 1

Unit Managers Meeting – November 2015 – *October 2015 information*

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.

Sample Trip Status by Month Scheduled and Month Collected

For Fiscal Year 2016 Hanford's overall Site groundwater monitoring program has 2,853 sample trips scheduled for collection. We have successfully completed 312 of 499 sample trips scheduled for October 2015.

During October 2015, 333 Fiscal Year 2016 sample trips were successfully collected. This includes 309 trips scheduled for October 2015 and 24 trips scheduled for November 2015. Additionally 3 Fiscal Year 2016 trips scheduled for October 2015 were sampled in September 2015 and 11 Fiscal Year 2015 trips were collected in October 2015. Three trips scheduled for October 2015 were collected in September ahead of schedule. This brings the total of Fiscal Year 2016 trips to be collected to 336.

The specific wells, aquifer tubes, and springs sampled in the central plateau during October 2015 are listed in Table 1.

Awaiting Sample Trips

Of the Fiscal Year 2015 and 2016 sample trips scheduled for October 2015 and prior, there are 324 that are awaiting collection. Of these, 8 require maintenance, 14 have access restrictions, 4 are not on the Well Access List, 5 are being evaluated for cancelation or rescheduling, 247 are associated with special studies, 1 is awaiting drilling, and 45 are awaiting collection at the month end.

Table 2 presents the sample trips for only the central plateau that were not successfully completed in October. 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 central plateau only, scheduled for collection in November 2015 (and not collected before the target sample month) are listed in Table 3.

~~WMA C Tank Farm~~

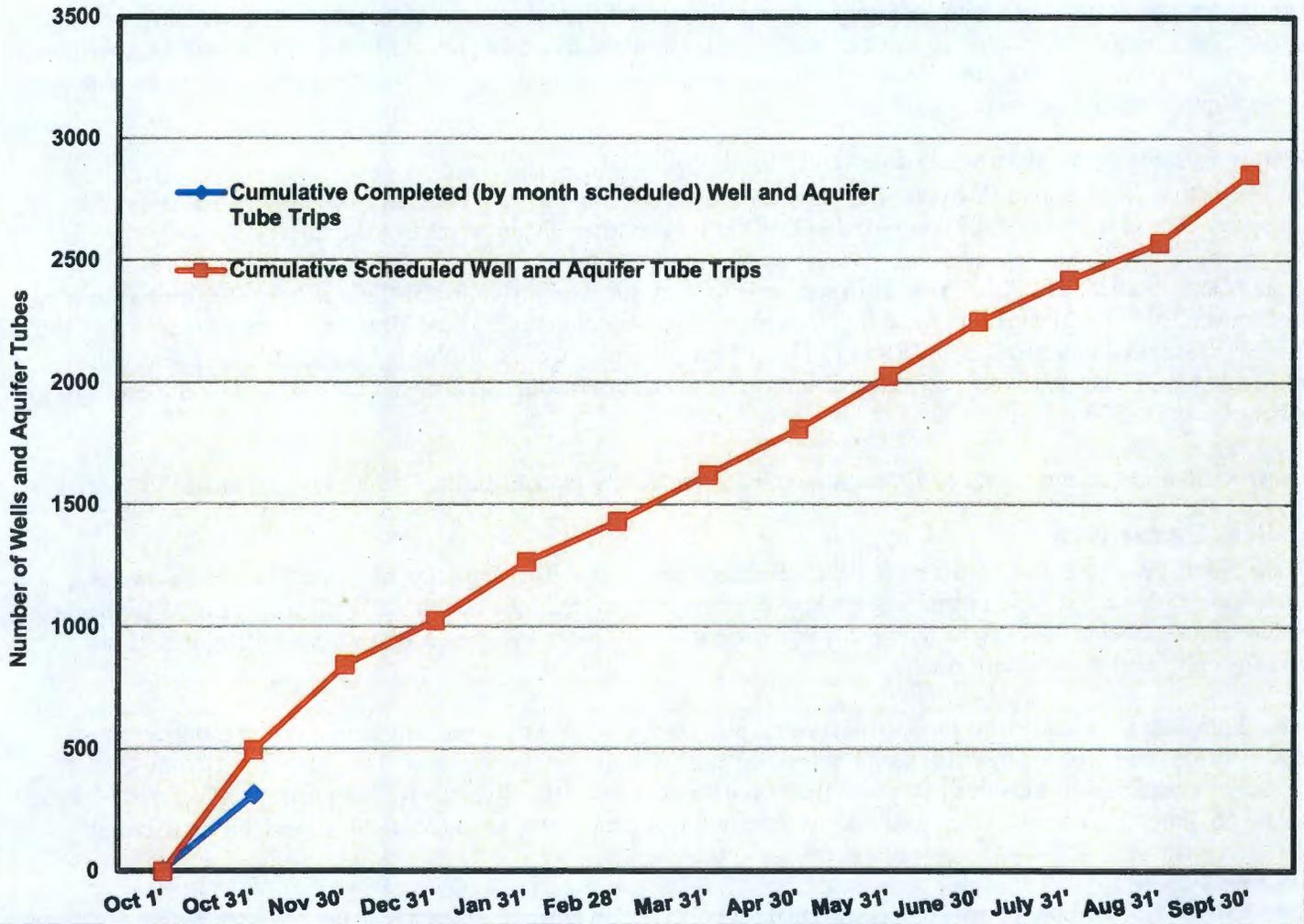
~~WMA C Tank Farm samples for the first quarter of FY-2016 are scheduled to be collected in December 2015. WMA C Tank Farm monitoring wells are listed in Table 4.~~

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/>,

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FY 2016 Successfully Completed vs Scheduled



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Operable Unit Specifics

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

- CERCLA Process Implementation:
 - ✓ The RI/FS and PP documents are on hold pending 100-K East Reactor waste site characterization and modeling (wells 116-KE-3 and UPR-100-K-1).
 - ✓ Monitoring Plan: The Draft A documents (Interim O&M Plan, Interim RD/RAWP, and Interim Groundwater Monitoring Plans) that are being revised to incorporate applicable 100-HR-3 comments and the pH value engineering evaluation. These documents will be issued in December.
- Remedial Actions & System Modifications:
 - ✓ The volume of groundwater treated and mass of Cr(VI) removed for each 100-K P&T system (KX, KR-4, and KW) during October 2015 are:
 - Treated 61.5 million gallons (60.0 September).
 - Removal 3.5 kg of hexavalent chromium (3.1 September)
 - ✓ The current influent and effluent Cr(VI) concentrations (measure once weekly) for the three K systems (measured November 4, 2015) are:
 - 100-KR4 – Influent = 4 µg/L; Effluent = less than detection
 - 100-KW – Influent = 18 µg/L; Effluent = less than detection
 - 100-KX – Influent = 13 µg/L; Effluent = less than detection
 - ✓ FY 2016 P&T performance to date:

<u>P&T System</u>	<u>Treated (mgal)</u>	<u>Removed (kg)</u>
KR-4	13.3	0.4
KW	14.7	1.0
KX	33.5	2.1
100-KR-4 OU TOTAL	61.5	3.5

- ✓ For October 2015, all three pump and treat systems operated at 100% (fully on-line) and the 30-day average pumping rates was 299 gpm, 329 gpm, and 756 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-1.

Table K-1. Summary of the Number of Extraction and Injection Wells in the Three Systems

Wells	KR4		KX		KW		TOTAL	
	2014	2015	2014	2015	2014	2015	2015	Current
Number of extraction wells	12	12	18	19	11	11	42	42
Number of injection wells	5	5	9	9	4	4	18	18

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- ✓ All KR-4 system extraction wells and injection wells are currently in service. The KR-4 hexavalent chromium concentration in extracted water continues to be below site cleanup requirements. The system remains in service to provide hydraulic capture of groundwater inland of the river.
- ✓ At the KW system Wells 199-K-132, 199-K-139, and 199-K-166 remain off-line to allow increased pumping along the central axis of the plume. Extraction Well 199-K-205, located at the former 183-KW Head House vicinity, continues operating at an extraction rate of 120 gpm and provides the highest concentration of hexavalent chromium; however, concentration in that well exhibits a consistent decreasing trend.
- ✓ The current concentration in Well 199-K-205 is 22 µg/L. The concentration time series for Well 199-K-205 since the time it was placed in extraction service is shown in Figure K-1
- ✓ All injection wells are in service. Most of the monitoring and extraction wells in the vicinity of KW pump and treat system have exhibited hexavalent chromium concentrations below the interim remedial action target of 20 µg/L during 2015.
- ✓ Figure K-2 illustrates the time series of hexavalent chromium concentrations at other selected wells in the KW vicinity compared to the 20 µg/L target concentration.
- ✓ Figure K-3 shows the location of the wells indicated in Figure K-2.

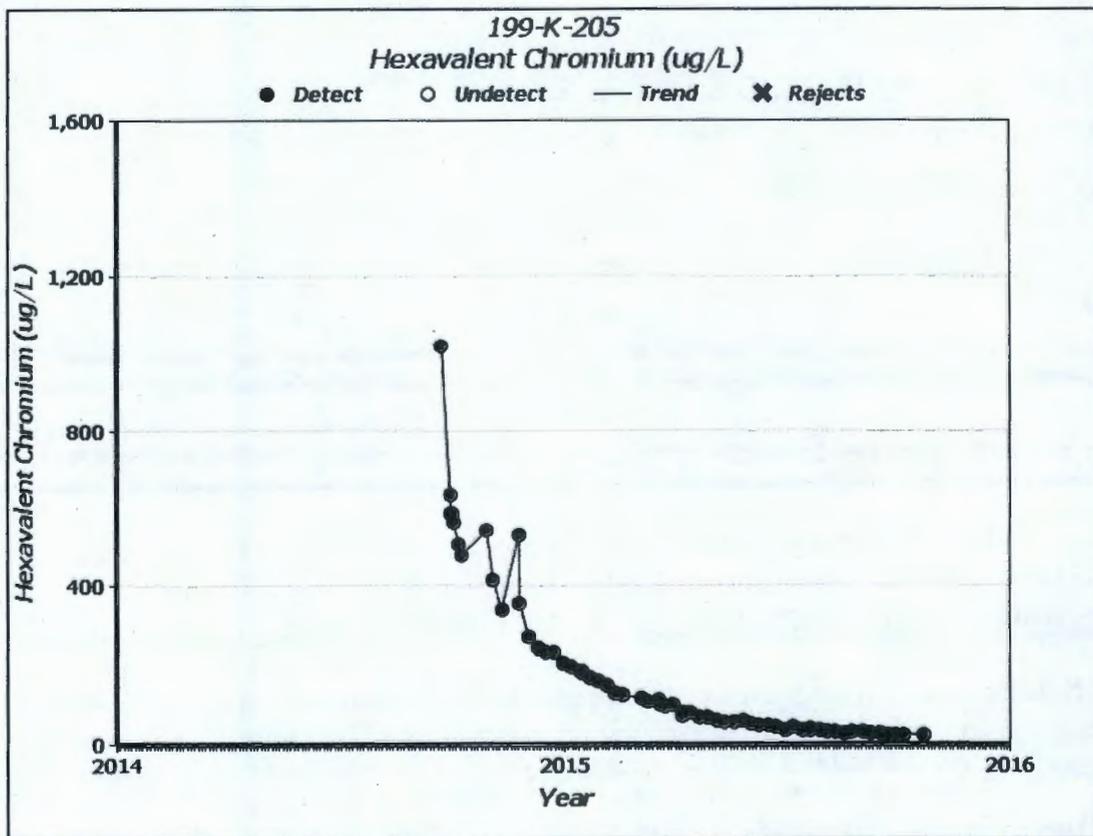


Figure K-1. Well 199-K-205 Hexavalent Chromium Concentration Time Series.

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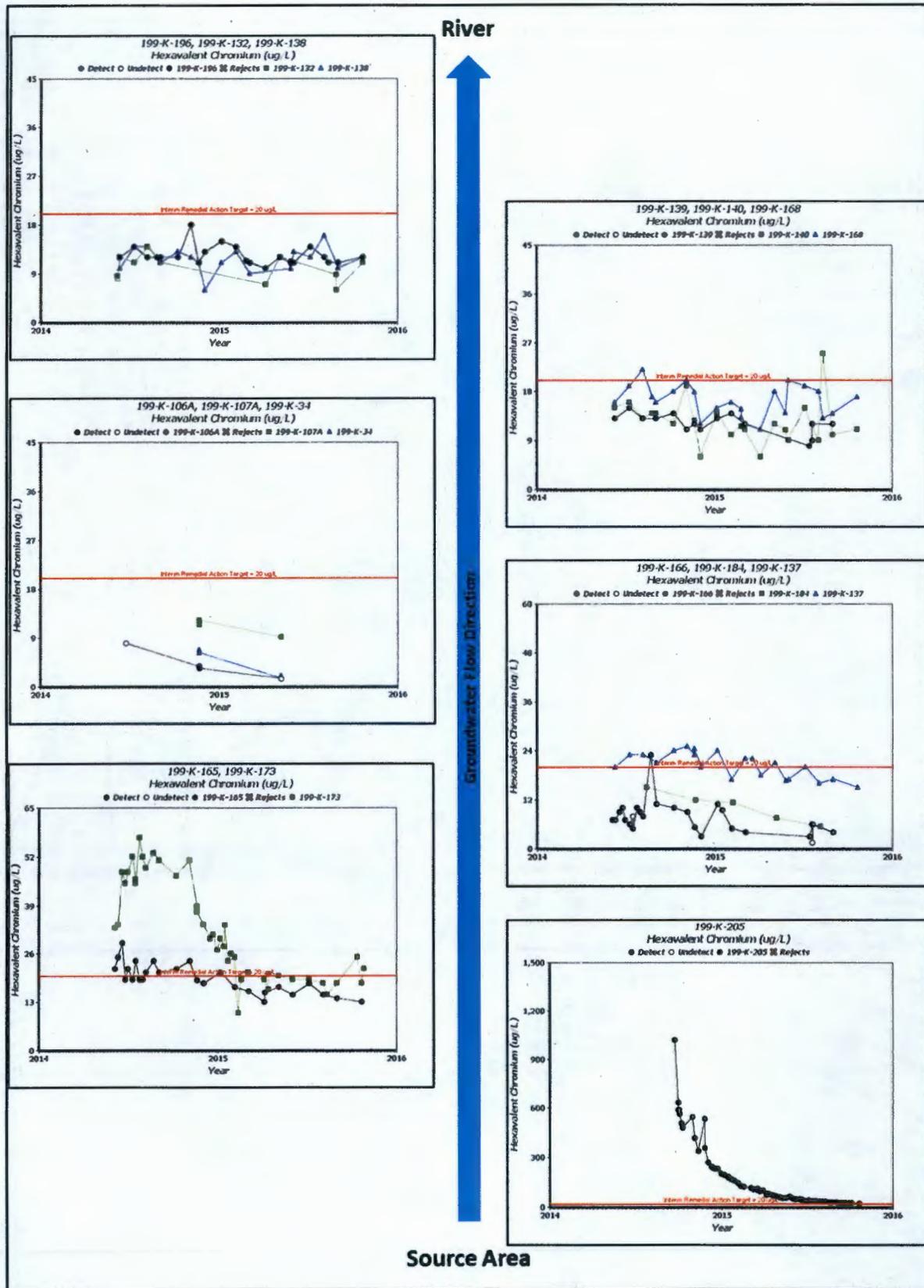


Figure K-2. Comparison of Hexavalent Chromium Concentration in Groundwater Wells along Flow Path from KW Head House to Columbia River during 2014 and 2015.

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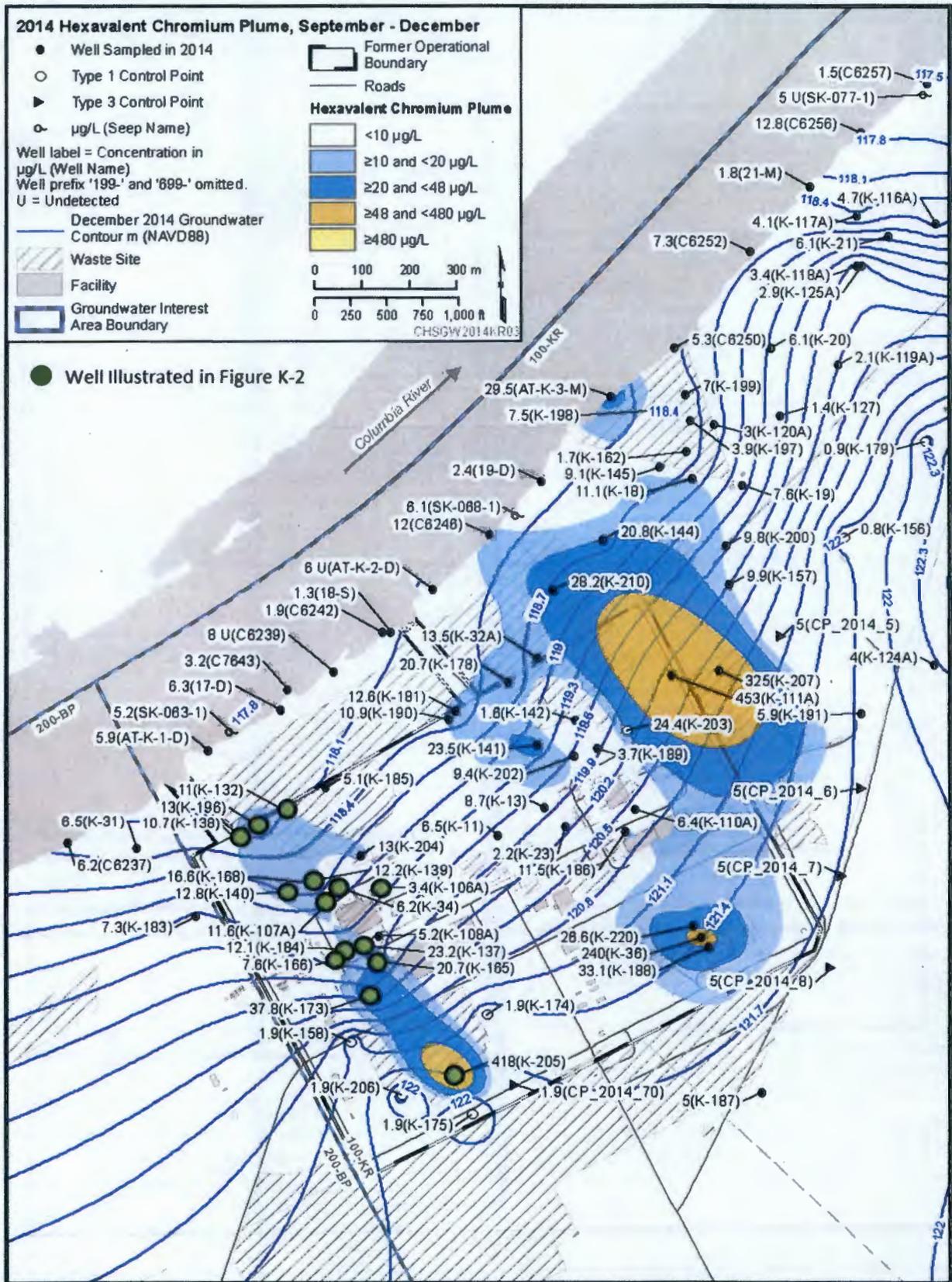


Figure K-3. 2014 Hexavalent Chromium Plume for 100-K Area Indicating the Location of Wells Illustrated in Figure K-2.

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- ✓ All KX system extraction wells are in service.
- ✓ Figures K-4 through K-6 present the groundwater treatment rate and hexavalent chromium removal information. As indicated in the curves below, Cr(VI) mass removal at KR-4, KW, and KX have generally decreased in recent months due to continued optimization of remedial performance (e.g., increasing the overall system pumping rates, while extracted groundwater concentrations decrease).
- ✓ Hexavalent chromium concentration at 199-K-205 has declined to 22 µg/L, although this still represents the highest concentration at 100-KW. This single well continues to account for most of the Cr(VI) entering the KW system due to pumping rate and persistent elevated chromium concentration. Pumping is being currently focused on wells along the axis of the Cr(VI) plume where peripheral wells are exhibiting reduced Cr(VI) concentrations.
- Characterization Activities in Vicinity of 105-KE Reactor
 - ✓ Evaluation of the soil and groundwater analytical data collected from Well 199-K-222 (the second of two subsurface characterization borings near 105-KE Reactor) continued. Preliminary observations and initial laboratory analyses indicated that radiological contamination is present over the vadose zone thickness. Notably elevated concentrations of cesium-137 and strontium-90 were observed at elevations corresponding with the bottom of the foundation of the former 105-KE Fuel Storage Basin and also within the periodically-rewetted zone above the current water table.
 - ✓ A sample of groundwater collected during drilling from a location just beneath the water table exhibited elevated strontium-90, carbon-14, and low level detects of tritium and technetium-99. These measurements are consistent with the historical release of contaminated water from the fuel storage basin. Elevated strontium-90, carbon-14, and tritium have historically been observed down gradient of 105-KE Reactor, along with periodic detections of low concentrations of technetium-99.
 - ✓ When complete, the results of this characterization activity will be documented in a Field Investigation Report and ultimately incorporated into the 100-KR-4 RI/FS report. The newly-completed Well 199-K-222, along with recently-completed Well 199-K-221 (located adjacent to the former 116-KE-3 Crib and Reverse Well) will be placed in monitoring service.
- Soil Remediation in Vicinity of 183-KE Head House
 - ✓ Shallow soil remediation at selected waste sites in the vicinity of 183-KE Head House is underway. These activities include removal of foundation works and shallow soil excavation (i.e., to about 10 feet below grade). Existing groundwater monitoring Wells 199-K-36 and 199-K-188 are remaining in service during the soil excavation.

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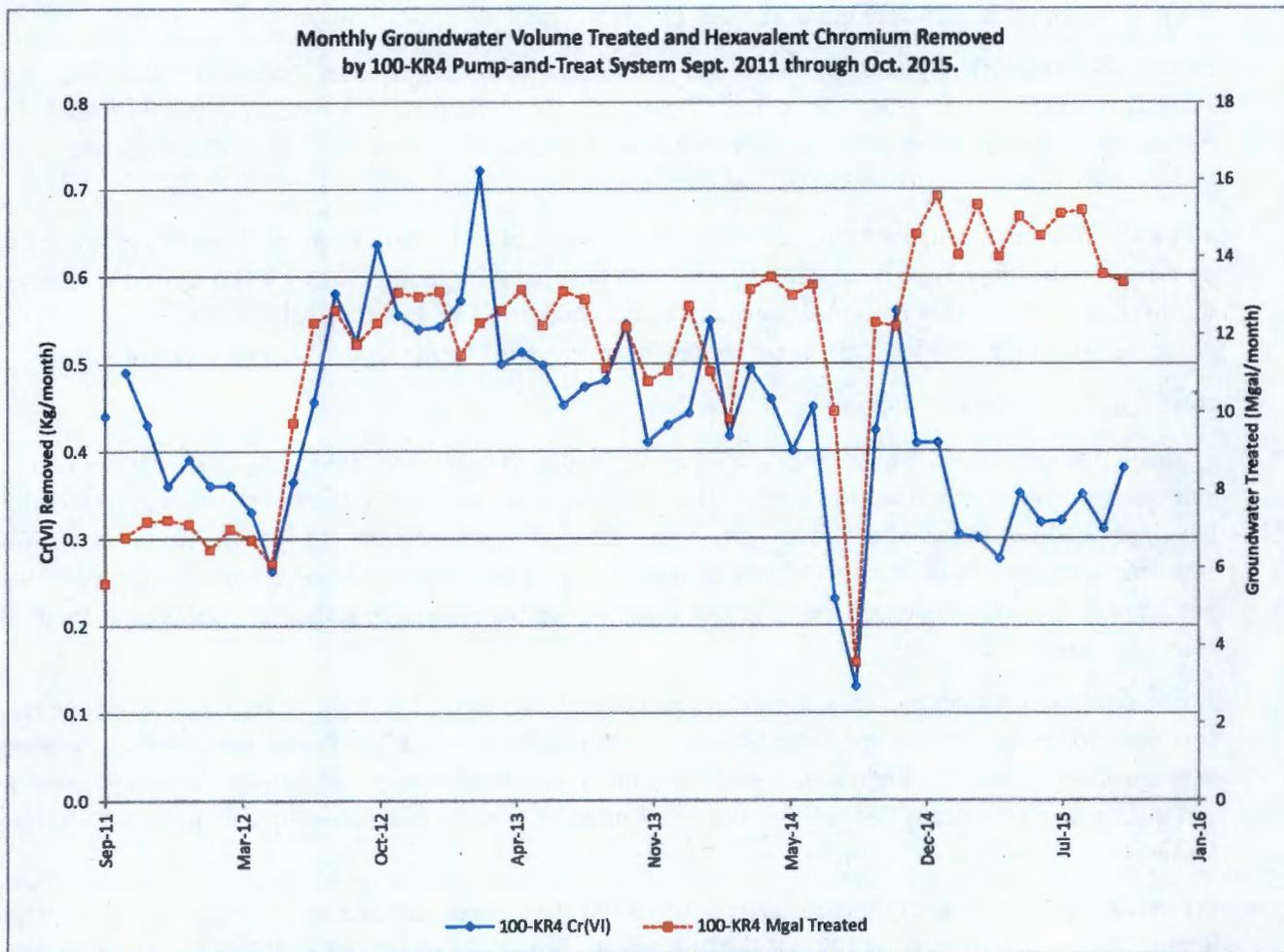


Figure K-4. Monthly Cr(VI) Removed and Groundwater Volume Treated by 100-KR-4 Pump-and-Treat, September 2011 through October 2015.

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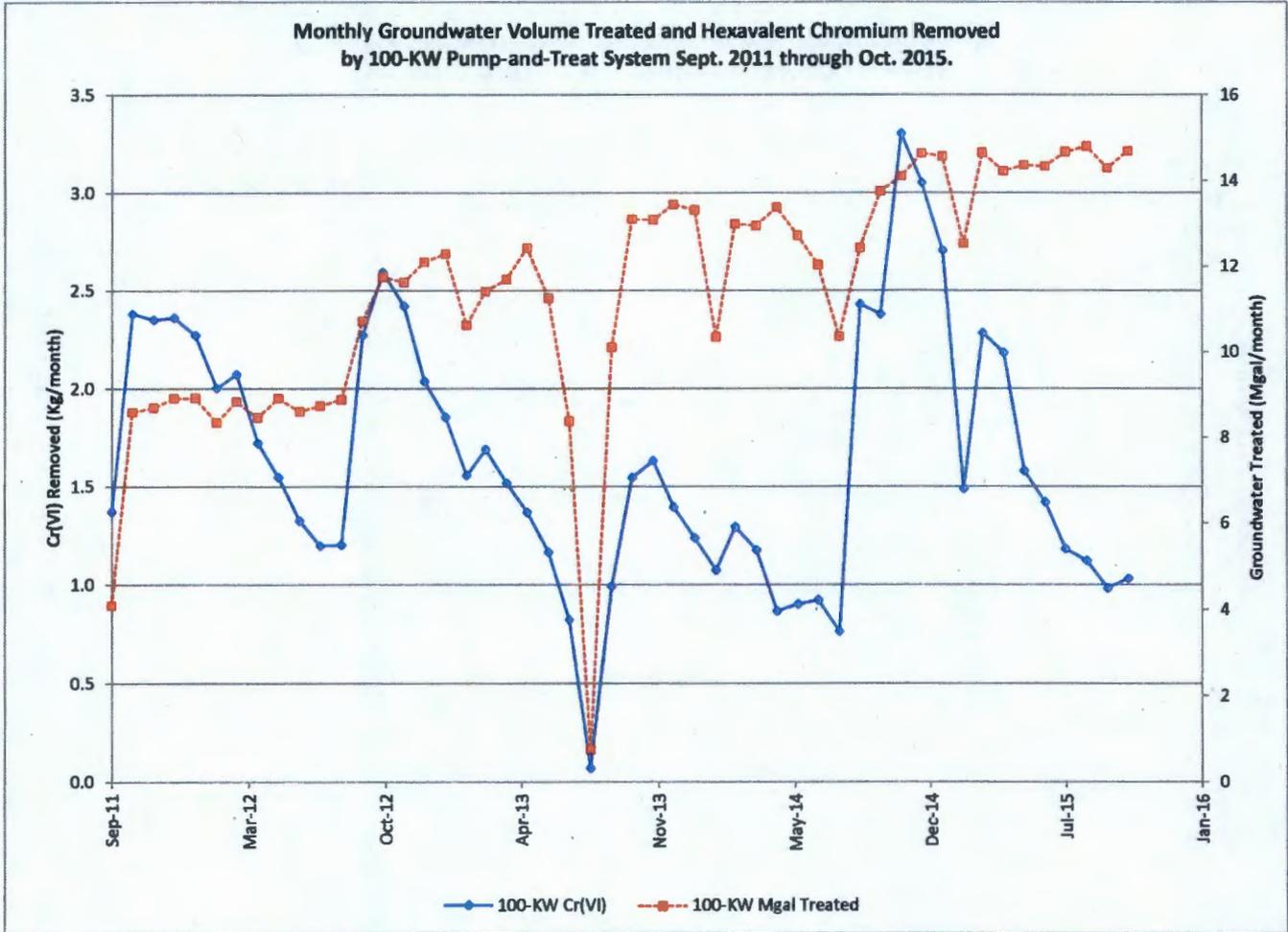


Figure K-5. Monthly Cr(VI) Removed and Groundwater Volume Treated by 100-KW Pump-and-Treat, September 2011 through October 2015.

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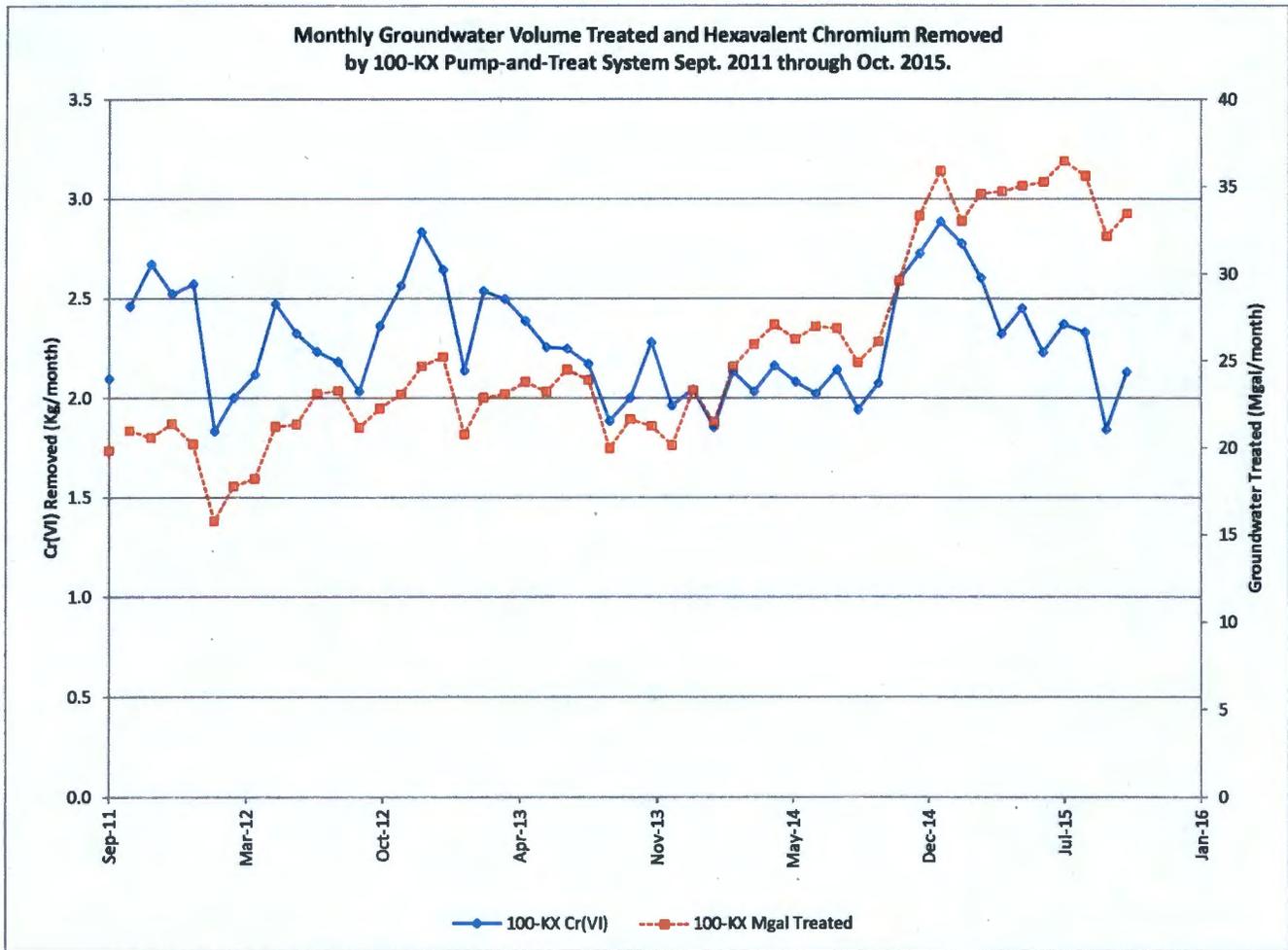


Figure K-6. Monthly Cr(VI) removed and groundwater volume treated by 100-KX pump-and-treat, September 2011 through October 2015.

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

- Milestone M-015-79: Due 12/15/2016 for the CERCLA RI/FS Report and Proposed Plan for the 100-BC-1, 100-BC-2 and 100-BC-5 Operable Units
- CERCLA Process Implementation:
 - ✓ Continued groundwater monitoring and hyporheic zone sampling.
 - ✓ Draft A of the groundwater sampling and analysis plan that will cover the 3-to-5 year period between completion of the RI and groundwater remedy implementation has completed RL review. The plan was submitted to the regulatory agencies on October 1, 2015.
 - ✓ The Project Team held a kick-off meeting in late September 2015 to initiate preparation of the RI/FS Report.
- Monitoring & Reporting:
 - ✓ The last round of HSP sampling under the RI sampling and analysis plan was completed in October 2015. A subset of HSPs is included for annual sampling under the plan mentioned above. Figure BC-1 summarizes hexavalent chromium concentrations for all of the 0.5-m HSPs through September 2015.
 - ✓ Conventional aquifer tubes were sampled in September 2015. A subset of aquifer tubes is included for annual sampling under the plan mentioned above. The maximum hexavalent chromium concentration in September was approximately 30 µg/L.
 - ✓ All of the monitoring wells scheduled for sampling in October 2015 were sampled except for Well 199-B2-14, which needs an electrical issue resolved. Most of the analytical results have been received.
 - ✓ Hexavalent chromium data in October 2015 continued to show migration of the 100-C-7 contaminant plume. Concentrations continued to decline in southern and central 100-BC (Figure BC-2) and in northern 100-BC (Figure BC-3). Declining concentrations in wells east of 100-BC suggest that the eastward spreading of the plume has ceased (Figure BC-4).
 - ✓ Strontium-90 and tritium data from October 2015 received so far continued previously established trends. Tritium concentrations remained below the DWS.

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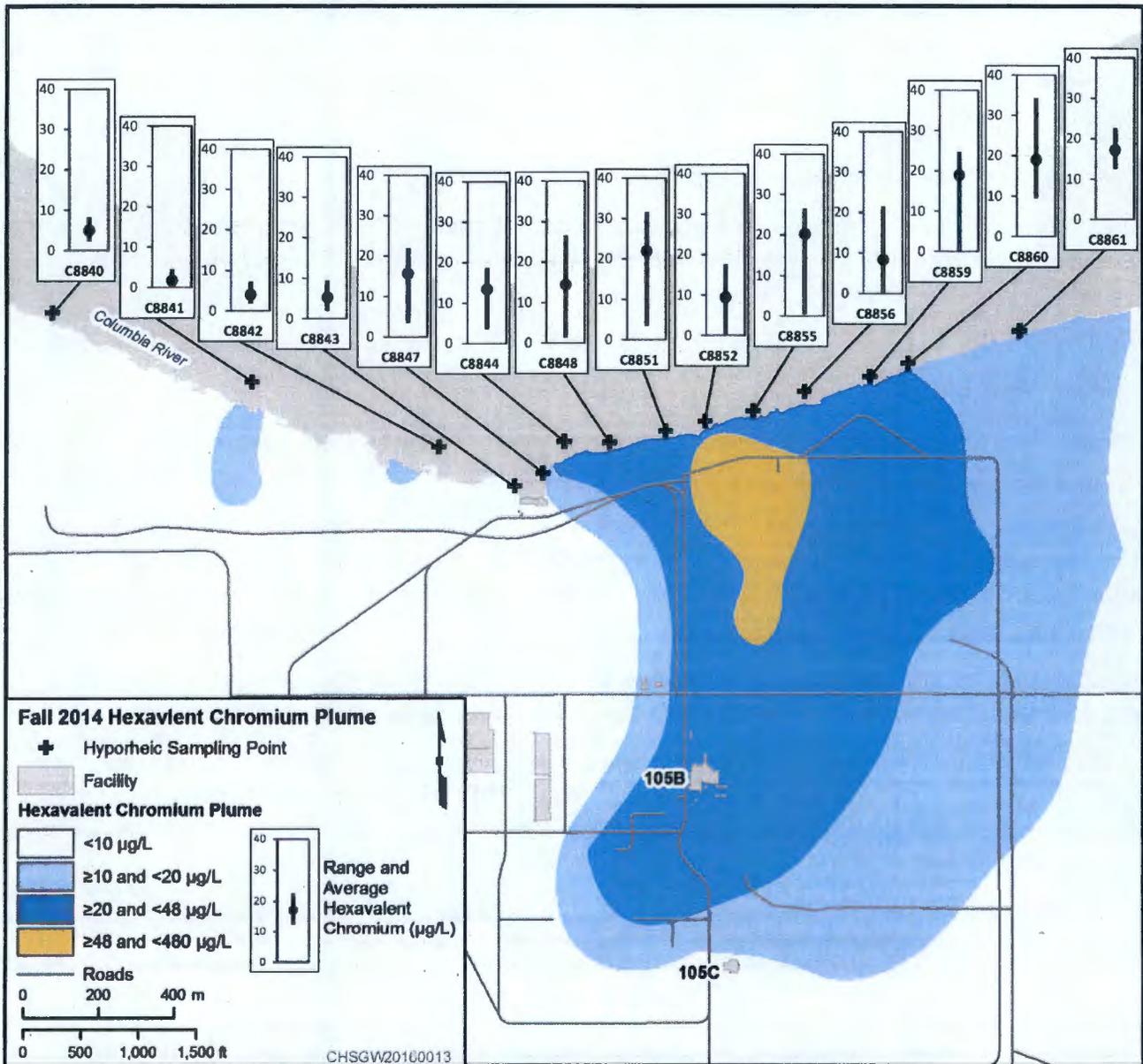


Figure BC-1. Range and Average Hexavalent Chromium Concentration in Hyporheic Sampling Points (data through September 2015)

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199-B5-12, 199-B4-7, 199-B4-8
Hexavalent Chromium (ug/L)

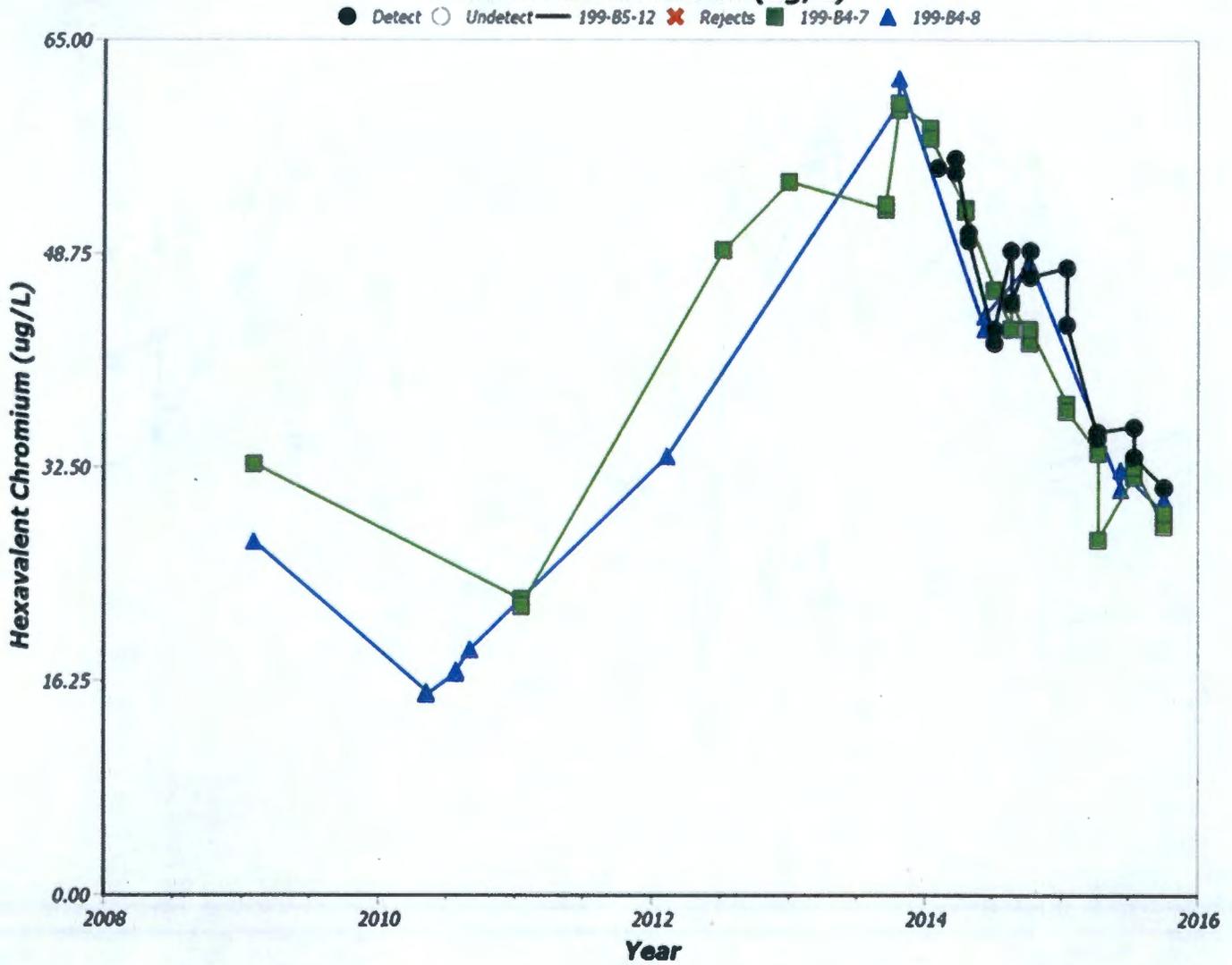


Figure BC-2. Hexavalent Chromium in Wells in Southern/Central 100-BC

199-B5-2, 199-B3-1, 199-B3-47
Hexavalent Chromium (ug/L)

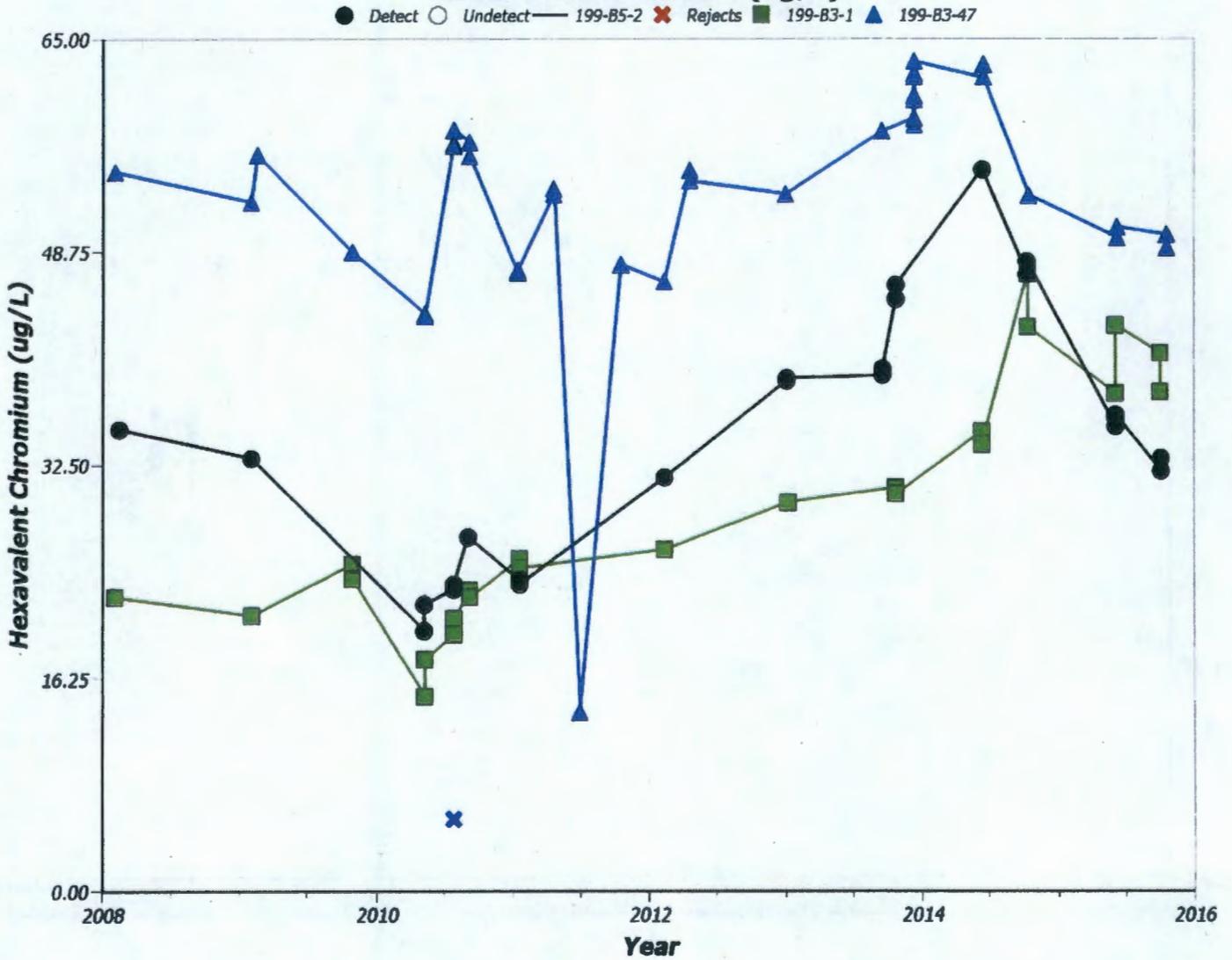


Figure BC-3. Hexavalent Chromium in Wells in Northern 100-BC Area

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199-B3-46, 199-B3-50, 199-B4-16
Hexavalent Chromium (ug/L)

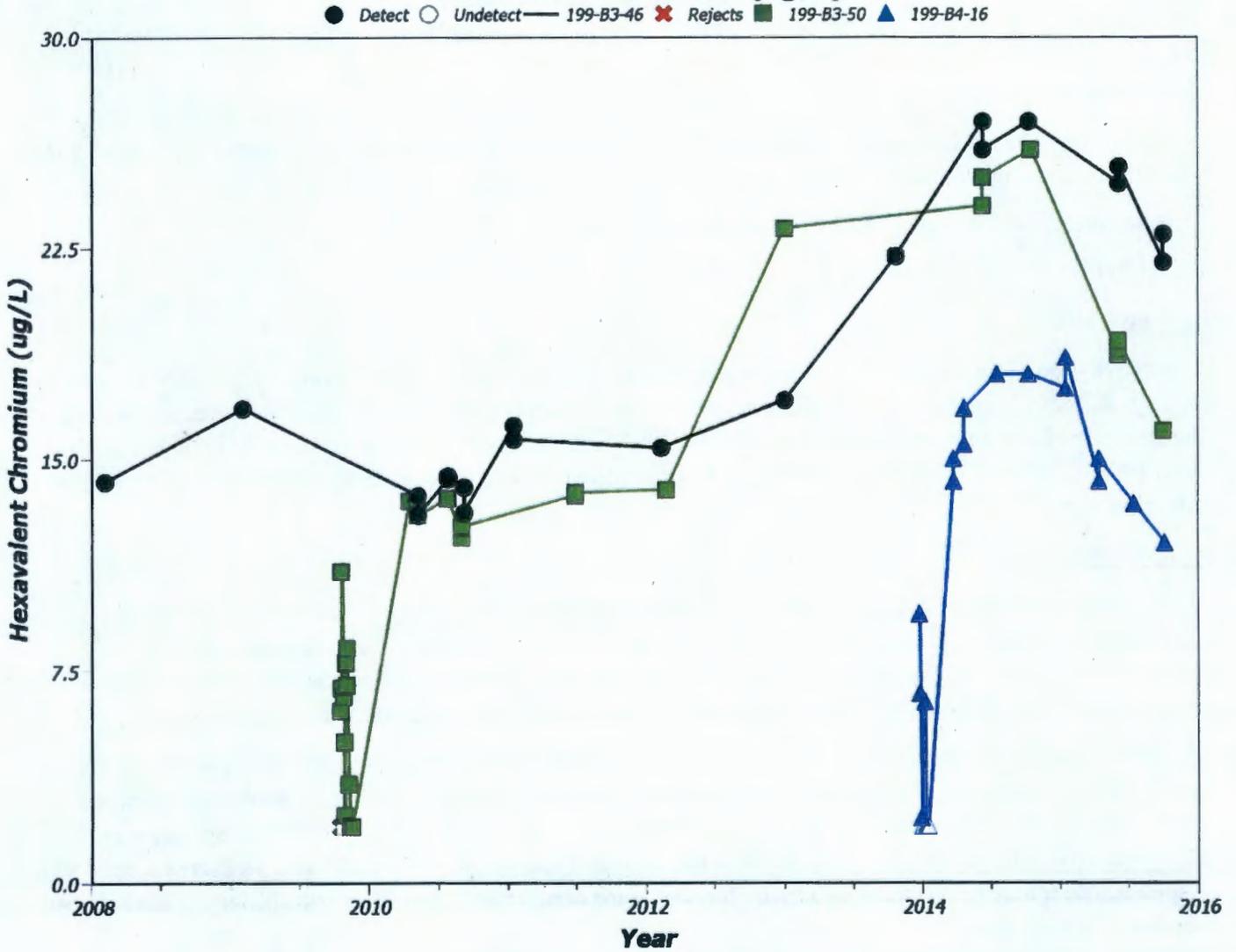


Figure BC-4. Hexavalent Chromium in Wells East of 100-BC Area

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

- CERCLA Process Implementation
 - ✓ Revised Chapter 6 red-lines and the associated RCR form (incorporating the new waste sites) were provided to Ecology for review on February 9, 2015. Comments on this revised text arrived from Ecology on May 21, 2015. Responses continue to be shared.
 - ✓ Revised Chapter 7 red-lines and the associated RCR form were completed and sent to Ecology February 26, 2015. We anticipate resolving the single remaining comment within the extension period (December 2015).
 - ✓ The numerical modeling performed for Draft A is being revisited.

- Remedial Actions

Bioventing –

- ✓ Figure NR-1 provides a chart showing bioventing well gas sample results for monitoring wells 199-N-171 and 199-N-169. Monthly vapor sample measurements were taken on October 29, 2015. Monthly measurements do not indicate significant biodegradation activity at well 199-N-169, however, the biodegradation rates calculated for well 199-N-169 based on the two respirometry test completed in 2015 show a biodegradation rate similar to that observed at well 199-N-171.

Product Recovery –

- ✓ The revised “smart sponges” configuration was inserted into well 199-N-18 on August 4, 2015, following completion of the respirometry test. The “smart sponge” assembly was removed and changed out on September 29, 2015. A total of 100 g of TPH was removed from groundwater since the last sponge change-out. Assuming that the TPH is diesel with a density of 0.85 g/mL, 0.12 L of diesel was removed.
- ✓ Figure NR-2 shows the petroleum hydrocarbon product absorbed by the sponge. Although no more mass was absorbed than in previous change outs, there appears to be more surface of the sponge material with absorbed hydrocarbons. No liquid indication was detected in the well using a water level meter after the sponge was removed. River elevations have dropped below the bottom of the well screen for extended periods in August and September so it may be that the well was dry for some time during this period. The next change-out is scheduled for December 2015.

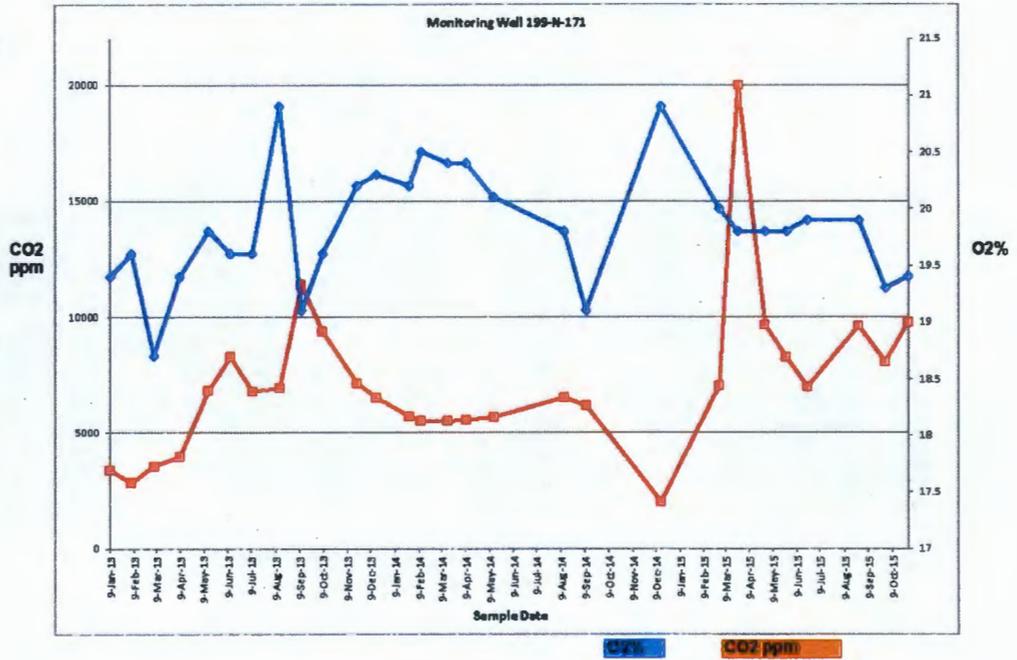
Aquifer Tubes –

- ✓ 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 September 15, 2015, and October 26, 2015. Tritium and strontium-90 concentration trends are shown in Figures NR-4 and NR-5, respectively.
- ✓ The RCRA monitoring wells scheduled for September 2015 were sampled on September 14 through 17, 2015, and September 28, 2015. One RCRA monitoring well (199-N-2) had electrical issues with the pump and could not be sampled. The well will be sampled after the issue has been corrected. The next sampling event is scheduled for March 2016.

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Well 199-N-171

Date	O2%	CO2 ppm
9-Jan-13	19.4	3400
5-Feb-13	19.6	2840
6-Mar-13	18.7	3570
8-Apr-13	19.4	3960
15-May-13	19.8	6820
12-Jun-13	19.6	8290
10-Jul-13	19.6	6800
14-Aug-13	20.9	6940
11-Sep-13	19.1	11400
8-Oct-13	19.6	9380
21-Nov-13	20.2	7160
18-Dec-13	20.3	6520
27-Jan-14	20.2	5720
11-Feb-14	20.5	5520
17-Mar-14	20.4	5520
9-Apr-14	20.4	5560
14-May-14	20.1	5670
13-Aug-14	19.8	6520
10-Sep-14	19.1	6180
15-Dec-14	20.9	2000
1-Mar-15	20	7020
25-Mar-15	19.8	20000
29-Apr-15	19.8	9650
26-May-15	19.8	8260
22-Jun-15	19.9	7000
27-Aug-15	19.9	9620
30-Sep-15	19.3	8070
29-Oct-15	19.4	9770



Well 199-N-169

Date	O2%	CO2 ppm
9-Jan-13	20.9	0
5-Feb-13	20.9	0
6-Mar-13	20.9	0
8-Apr-13	20.9	0
15-May-13	20.9	600
12-Jun-13	20.9	780
10-Jul-13	20.5	1020
10-Jul-13	20.9	920
14-Aug-13	20.9	530
11-Sep-13	20.9	1250
8-Oct-13	20.9	560
21-Nov-13	21.3	600
18-Dec-13	20.9	530
27-Jan-14	20.9	500
11-Feb-14	20.9	550
17-Mar-14	20.9	470
9-Apr-14	20.9	660
14-May-14	20.9	840
13-Aug-14	20.9	520
10-Sep-14	20.9	410
15-Dec-14	21	100
1-Mar-15	20.9	360
25-Mar-15	20.9	325
29-Apr-15	20.9	410
26-May-15	20.9	460
22-Jun-15	21	0
27-Aug-15	21.4	330
30-Sep-15	20.9	530
29-Oct-15	20.9	360

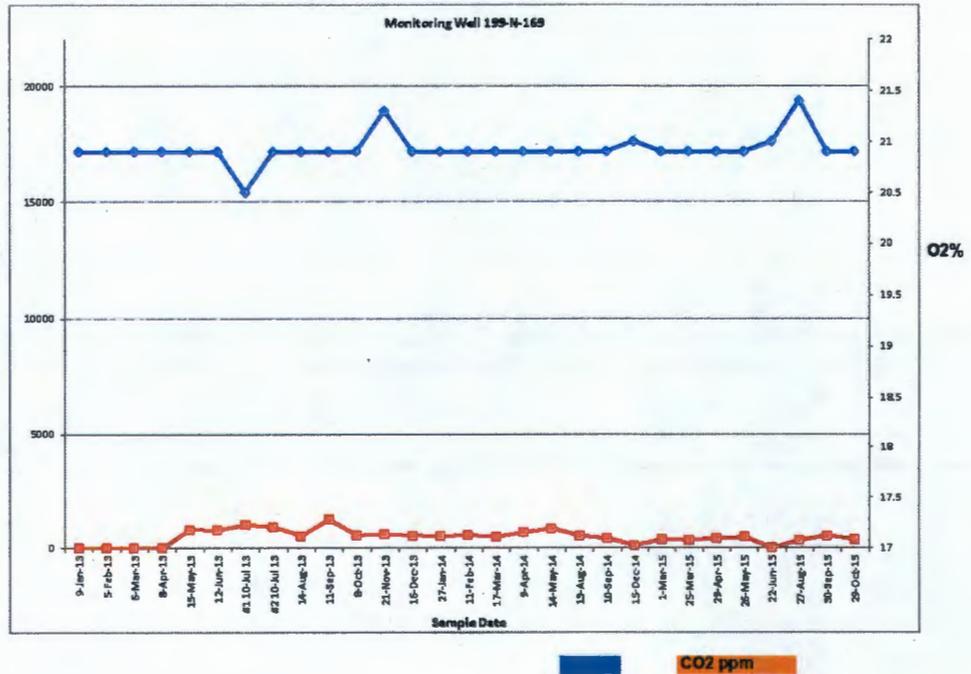


Figure NR-1. Bioventing Wells 199-N-169 and 199-N-171 Monthly Sampling Results

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Figure NR-2. Smart Sponge from Well 199-N-18

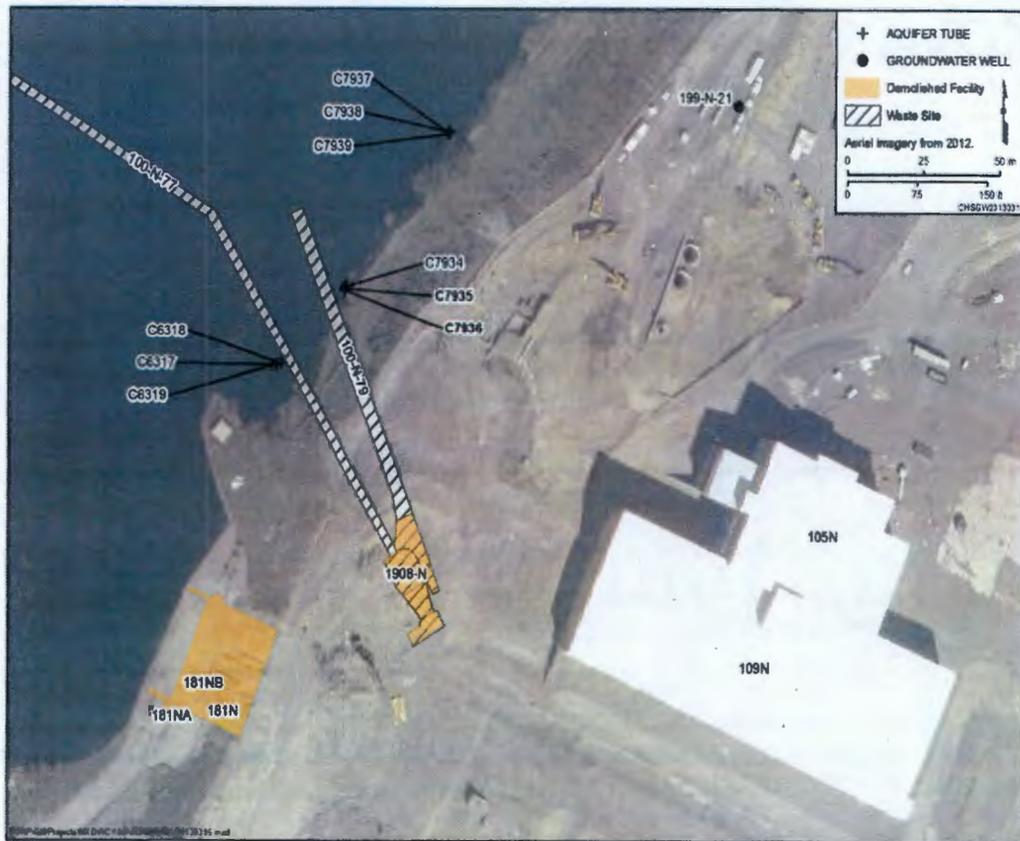


Figure NR-3. Locations of Aquifer Tubes C7934, C7935, and C7936

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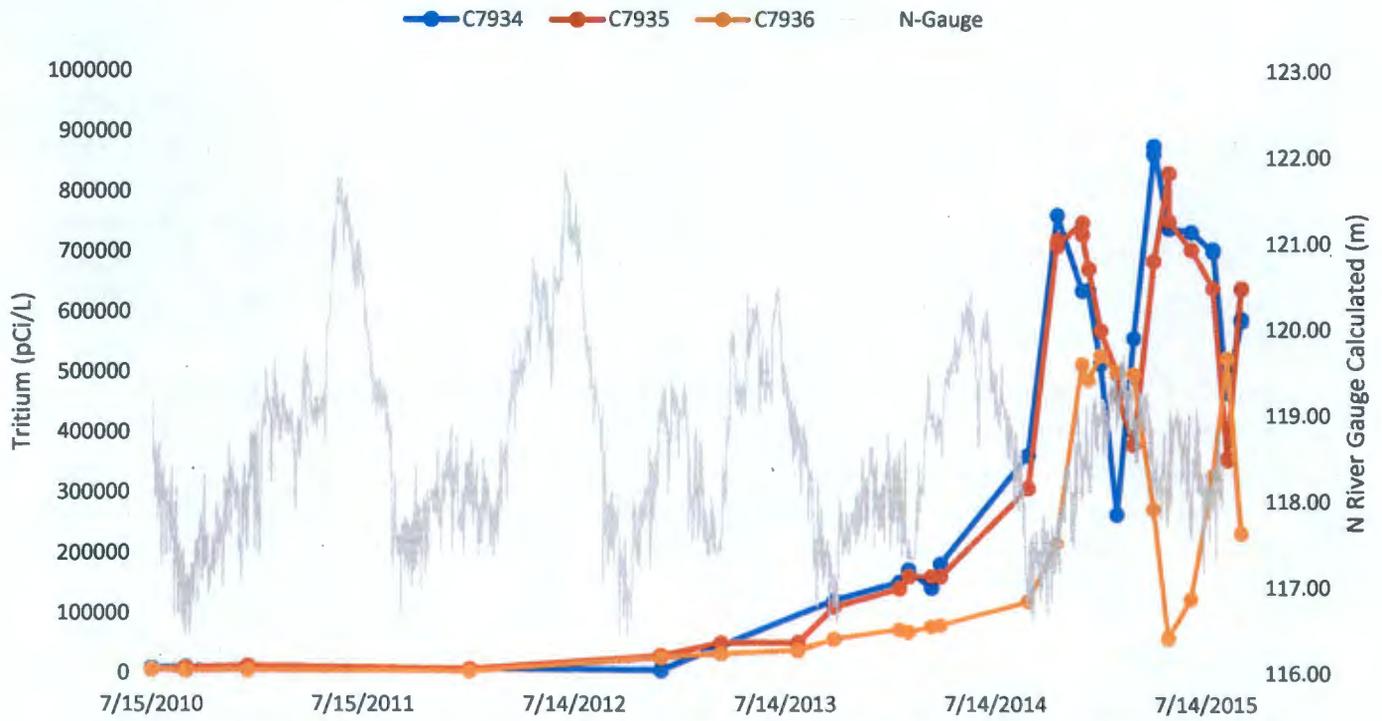


Figure NR-4. Tritium Trends through September 2015 at Aquifer Tubes C7934, C7935, and C7936



Figure NR-5. Strontium-90 Trends through September 2015 at Aquifer Tubes C7934, C7935, and C7936

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100-HR-3 Groundwater Operable Unit – Mike Drewett/Kris Ivarson

- CERCLA Process Implementation:
 - ✓ Proposed Plan: Reviewed and resolved comments on Revision 0 during a May 28, 2015 meeting between RL, EPA and Ecology. Draft Revision 0 was provided to Ecology on June 2, 2015, and forwarded for Ecology legal review on June 9, 2015. Ecology legal comments were originally due on July 10, 2015. Ecology provided comments to RL on August 5, 2015. RL provided proposed responses to Ecology on August 27, 2015. Final comment resolution meeting held on September 2, 2015. Revised draft Revision 0 submitted to EPA and Ecology on September 2, 2015, for EPA legal review. EPA legal review was originally scheduled to be completed on October 2, 2015. EPA legal comments received on November 9, 2015.
 - ✓ Interim RD/RAWP, Interim Monitoring Plan, and Interim O&M Plan, Draft A plans were transmitted to Ecology on September 30, 2014. Received comments from Ecology on April 30, 2015. RL requested a 90-day extension to respond to comments on May 27, 2015. Ecology extended comment resolution for Draft A plans to December 2, 2015. Good progress continues to be made on disposition of outstanding comments, with over 95% of comments resolved.
- Remedial Actions & System Modifications
 - ✓ A summary of the number of extraction and injection wells in the DX and HX P&T systems is shown in Table H-1.
 - ✓ All FY15 well realignments are completed and operational. Realignments for FY16 are in planning stages.
 - ✓ Well 199-D5-34 and Well 199-D8-95 currently have the highest levels of Cr(VI) in 100-HR-3 at 358µg/L and 350µg/L, respectively as of October 1, 2015.
 - ✓ The highest concentrations of Cr(VI) at HX are at about 60 to 70µg/L, reported in several extraction wells in the Horn.

Table H-1. Summary of the Number of Extraction and Injection Wells in the 100-HR-3 Systems

Wells	DX		HX		Total
	2014	2015	2014	2015	Current- as of 10/31/2015
Number of extraction wells	44	46	31	34	80
Number of injection wells	14	11	14	16	27

Notes:
 DX system Well 199-D8-55 was not used for injection in 2014, but was operational as an extraction well
 Four injection wells for DX are remain connected, but are not counted in 2015 since they are not operating.

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- ✓ October 2015 monthly performance for **DX** and **HX** systems:
 - Treated: 54.0 million gallons (54.7 in September)
 - Removed: 10.2 kg of Cr(VI) (9.42 in September)
- ✓ FY 2016 P&T performance to date:

<u>P&T System</u>	<u>Treated (mgal)</u>	<u>Removed (kg)</u>
DX	34.1	7.7
HX	19.9	2.5
100-HR-3 OU TOTAL	54.0	10.2

- ✓ 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-1 and H-2, 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.
- ✓ The current influent and effluent Cr(VI) concentrations (measure once weekly) for the two HR-3 systems (as measured on November 5, 2015 for DX and November 2, 2015 for HX) are:
 - DX – Influent = 54 µg/L; Effluent = 2 µg/L
 - HX – Influent = 32 µg/L; Effluent = less than detection

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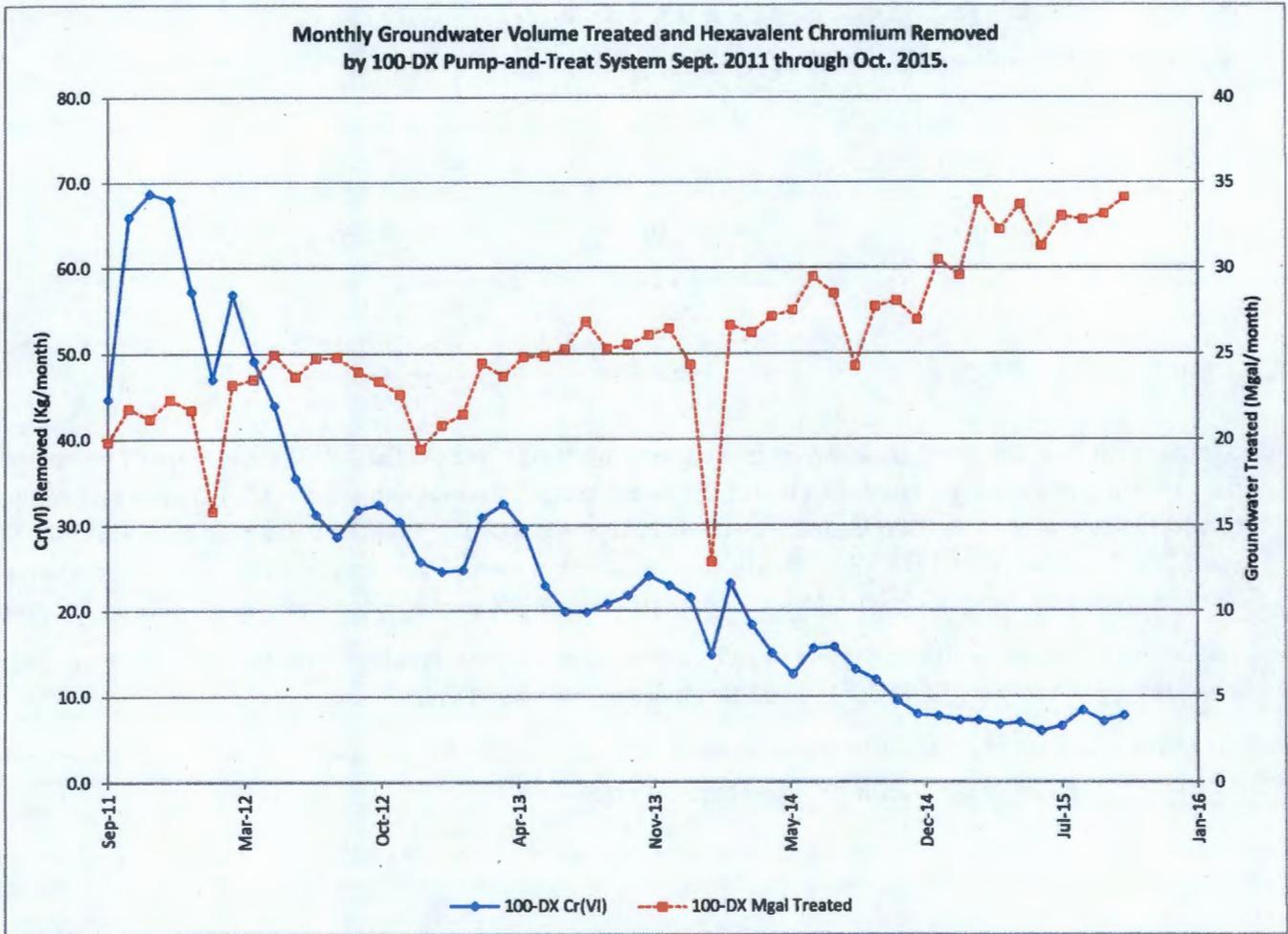


Figure H-1. Monthly Cr(VI) Removed and Groundwater Volume Treated by 100-DX Pump-and-Treat, September 2011 through October 2015.

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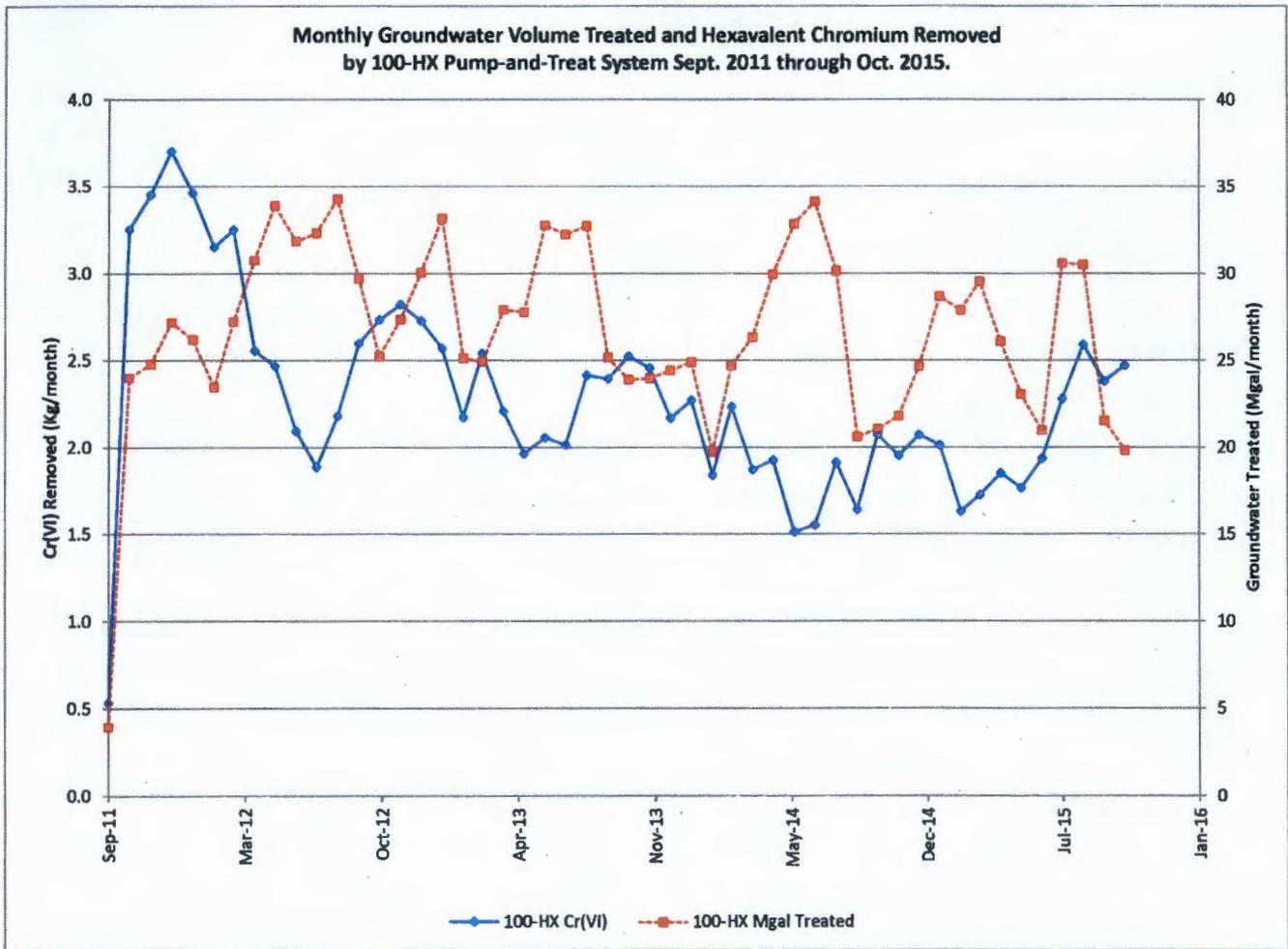


Figure H-2. Monthly Cr(VI) Removed and Groundwater Volume Treated by 100-HX Pump-and-Treat, September 2011 through October 2015.

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

- CERCLA Process Implementation:
 - ✓ Revision 0 of the RDR/RW WP was delivered to EPA on August 18, 2015.
 - ✓ Initiated planning to prepare for mobilization and installation of the monitoring well component of the remedial action. RL, EPA, and CHPRC staked locations for eight new monitoring wells in September.
- Monitoring & Reporting:
 - ✓ Groundwater monitoring wells were sampled as scheduled in October. Additional wells are scheduled for sampling in November. Of the data received to date:
 - Nitrate levels remained at previous levels or declined slightly
 - Hexavalent chromium concentrations declined from 2014 levels.
 - Trichloroethene and strontium-90 data have not yet been received.
 - Aquifer tubes were sampled in late October.

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300-FF-5 Groundwater Operable Unit – Patrick Baynes/Virginia Rohay/Randy Hermann

- CERCLA Process Implementation:

- ✓ The submission of *300-FF-5 Operable Unit Remedy Implementation Sampling and Analysis Plan*, DOE-RL-2014-42, Draft A, to the U.S. Environmental Protection Agency completes the Hanford Facility Agreement and Consent Order Target Date M-016-110-T05, “DOE will have a remedy in place designed to meet Federal Drinking Water Standards for uranium throughout the groundwater plume in the 300-FF-5 Operable Unit unless otherwise specified in a CERCLA decision document,” due December 31, 2015.

Completion criteria for this target date is listed in section 7.2 of the approved Remedial Design Report/Remedial Action Work Plan Addendum for the 300 Area Groundwater (DOE/RL-2014-13-ADD2). Section 7.2 states: “Therefore, the remedy is considered to be in place with the issuance of the Draft A Performance Monitoring Plan, as part of the Remedy Implementation SAP (section 3.2.2).”

- ✓ The RDR/RAWP-ADD2 (DOE/RL-2014-13-ADD2), section 4.1.2.1 and the RI SAP (DOE/RL-2014-42), Section 3.2.1 specify absolute chemical concentration and pH. Due to the range in chemical concentration and pH the following specification was followed:

“Phosphate chemicals were delivered to the infiltration/injection site in concentrated liquid form. The resultant pH of the concentrated phosphate solutions once blended with river water at the points of injection and infiltration was 7 (+0.7/- 0.2). The monosodium phosphate concentration was 103,000 mg/L monosodium phosphate (+/- 10%), and the pyrophosphate concentration was 20,000 mg/L pyrophosphate (+/- 10%). At these concentrations, the estimated volumes of concentrated phosphate solutions required for Stage A were 500,000 L (132,000 gal) of monosodium phosphate (+/- 10%), and 300,000 L (79,000 gal) of pyrophosphate (+/- 10%).

- Remedial Actions:

- ✓ Completed installation of the infiltration system pipeline.
- ✓ The grout seal for Well 399-1-95 was repaired on October 7, 2015.
- ✓ Operational testing for the mixing skids and river pumps was completed on October 7, 2015.
- ✓ Installation and testing of the Electrical Resistivity Tomography system was completed on October 22, 2015.

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- **Monitoring & Reporting:**
 - ✓ 300 Area Industrial Complex: The next sampling event is scheduled for December 2015.
 - ✓ 618-10 Burial Ground/316-4 Crib: Samples have been collected at three of the five wells scheduled for sampling in June. One well (699-S6-E4L) was decommissioned on August 26, 2015. The other well is not currently accessible but will be sampled as soon as conditions allow. The next sampling event is scheduled for December 2015.
 - ✓ 618-11 Burial Ground: All five wells were sampled as scheduled on October 26, 2015. The next sampling event is scheduled for October 2016.
 - ✓ 300 Area Process Trenches (316-5) RCRA Monitoring: The wells were sampled on September 9 and 11, 2015. The next sampling event is scheduled for December 2015.

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Hanford Sampling Program Information

Table 1. Wells, Aquifer Tubes, and springs in the River Corridor Areas Successfully Sampled In October 2015

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
199-B2-13	199-F5-1	199-D2-6	199-H4-15CP	100-K SPRING 63-1	199-K-131		699-12-2C
199-B2-16	199-F5-4	199-D3-5	199-H4-15CQ	100-K SPRING 82-2	199-K-151		699-13-0A
199-B3-1	199-F5-42	199-D4-13	199-H4-15CR	17-D	199-N-103A		699-13-1E
199-B3-46	199-F5-43A	199-D4-15	199-H4-15CS	18-S	199-N-51		699-13-2D
199-B3-47	199-F5-43B	199-D4-19	199-H4-6	199-K-117A	25-D		699-13-3A
199-B3-50	199-F5-44	199-D4-20	199-H4-92	199-K-130	26-D		
199-B3-51	199-F5-45	199-D4-26	199-H4-93	199-K-132	26-M		
199-B3-52	199-F5-46	199-D4-5	199-H5-16	199-K-146	26-S		
199-B4-1	199-F5-47	199-D4-6	51-D	199-K-147	699-87-55		
199-B4-14	199-F5-48	199-D4-78	51-M	199-K-148	AT-K-6-D		
199-B4-16	199-F5-52	199-D4-86	51-S	199-K-152	AT-K-6-M		
199-B4-18	199-F5-54	199-D4-92	699-100-43B	199-K-165	AT-K-6-S		
199-B4-4	199-F5-55	199-D4-93	699-88-41	199-K-173	C6263		
199-B4-7	199-F5-56	199-D4-95	699-89-35	199-K-18	C6264		
199-B4-8	199-F5-56	199-D4-96	699-90-37B	199-K-20	C6265		
199-B5-1	199-F5-6	199-D4-97	699-90-45	199-K-202	C7934		
199-B5-10	199-F6-1	199-D4-98	699-91-46A	199-K-205	C7935		
199-B5-11	199-F7-1	199-D4-99	699-96-43	199-K-207	C7936		
199-B5-12	199-F7-3	199-D5-101	699-97-43B	199-K-21	N116mArray-8A		
199-B5-13	62-M	199-D5-103	699-97-43C	19-D			
199-B5-14	64-M	199-D5-104	699-97-45	19-M			
199-B5-2	67-M	199-D5-107	699-97-45B	21-M			
199-B5-5	699-71-30	199-D5-108	699-97-47B	23-M			
199-B5-6	699-77-36	199-D5-109	699-97-60	AT-K-1-D			
199-B5-8	699-86-42	199-D5-110	699-98-43	AT-K-1-M			
199-B5-9	699-87-42A	199-D5-114	C6287	AT-K-1-S			
199-B8-6	74-D	199-D5-115	C6288	AT-K-2-D			
199-B8-9	75-D	199-D5-127		AT-K-3-D			
199-B9-2	76-D	199-D5-13		AT-K-3-M			
199-B9-3	C6302	199-D5-130		AT-K-3-S			
699-65-83	C6303	199-D5-131		AT-K-5-D			
699-71-77	C6306	199-D5-134		AT-K-5-M			
C8840	C6309	199-D5-14		AT-K-5-S			
C8841	C6315	199-D5-141		C6239			
C8842	SEEP 187-1	199-D5-145		C6240			
C8843		199-D5-146		C6241			
C8845		199-D5-159		C6242			
C8847		199-D5-17		C6243			

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Table 1. Wells, Aquifer Tubes, and springs in the River Corridor Areas Successfully Sampled In October 2015

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
C8848		199-D5-18		C6244			
C8849		199-D5-19		C6245			
C8851		199-D5-32		C6246			
C8852		199-D5-33		C6247			
C8853		199-D5-34		C6248			
C8855		199-D5-36		C6249			
C8856		199-D5-37		C6250			
C8860		199-D5-39		C6251			
C8861		199-D5-40		C6252			
C9441		199-D7-3		C6253			
C9442		199-D7-6		C6254			
C9443		199-D8-101		C6255			
C9444		199-D8-4		C6256			
C9445		199-D8-89		C6257			
C9446		199-D8-90		C6258			
		199-D8-91		C6259			
		199-D8-95		C6260			
		199-D8-96		C6261			
		199-D8-97		C7641			
		199-D8-98		C7642			
		699-97-48B		C7643			
		699-97-48C		SK-057-3			
		699-97-61		SK-077-1			
		SD-098-1					
		SD-110-1					

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Table 2. Fiscal Year 2015 and 2016 Sample Trips in the River Corridor Areas awaiting at the end of October 2015

Quarter Scheduled	GWIA	SAMP_SITE TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
FY 2015 Q1	100-KR	SPRING	SK-077-1	10/1/2014	Annual	0	Late	Review for Cancellation
FY 2015 Q3	100-HR-D	AQUIFER TUBE	DD-39-1	5/1/2015	Biannual	0	Late	Review for Cancellation
	300-FF	WELL	699-S6-E4B	6/1/2015	Biannual	1		Access Restricted, Review for Cancellation
FY 2015 Q4	100-HR-D	WELL	199-D5-38	9/1/2015	Quarterly	1		Maintenance Required
		WELL	199-D8-73	9/1/2015	Quarterly	1		
	100-HR-H	WELL	199-H1-39	9/1/2015	Quarterly	1		
		WELL	199-H1-40	8/1/2015	Quarterly	0	Late	Review for Cancellation
		WELL	199-H1-6	9/1/2015	Quarterly	1		
	100-KR	WELL	199-K-221	7/1/2015	Quarterly	0	Late	Not Accepted, Not on WAL, Review for Cancellation
		WELL	199-K-222	7/1/2015	Quarterly	0	Late	Not Accepted, Not on WAL, Review for Cancellation
	100-NR	WELL	199-N-333	9/1/2015	Quarterly	1		Maintenance Required, Unsuccessful 9/18/2015
		WELL	199-N-343	9/1/2015	Annual	10		Maintenance Required, Unsuccessful 9/30/2015
		AQUIFER TUBE	C6134	7/20/2015	Annual	8		Access Restricted
		AQUIFER TUBE	C6331	9/1/2015	Annual	10		
		AQUIFER TUBE	N116mArray-0A	7/20/2015	Quarterly	0	Late	Review for Cancellation
		AQUIFER TUBE	N116mArray-0A	9/1/2015	Quarterly	1		
	300-FF	WELL	399-1-24	9/27/2015	Annual	10		Special Study
		WELL	399-1-25	9/27/2015	Annual	10		Special Study
		WELL	399-1-36	9/27/2015	Annual	10		Special Study
		WELL	399-1-37	9/27/2015	Annual	10		Special Study
		WELL	399-1-65	9/11/2015	Annual	10		Special Study
		WELL	399-1-65	9/12/2015	Annual	10		Special Study
		WELL	399-1-65	9/13/2015	Annual	10		Special Study
		WELL	399-1-65	9/14/2015	Annual	10		Special Study
		WELL	399-1-65	9/15/2015	Annual	10		Special Study
		WELL	399-1-65	9/16/2015	Annual	10		Special Study
		WELL	399-1-65	9/17/2015	Annual	10		Special Study
		WELL	399-1-65	9/18/2015	Annual	10		Special Study
		WELL	399-1-65	9/19/2015	Annual	10		Special Study
		WELL	399-1-65	9/20/2015	Annual	10		Special Study
		WELL	399-1-65	9/27/2015	Annual	10		Special Study
WELL		399-1-66	9/27/2015	Annual	10		Special Study	
WELL		399-1-67	9/11/2015	Annual	10		Special Study	
WELL		399-1-67	9/12/2015	Annual	10		Special Study	
WELL	399-1-67	9/13/2015	Annual	10		Special Study		
WELL	399-1-67	9/14/2015	Annual	10		Special Study		
WELL	399-1-67	9/15/2015	Annual	10		Special Study		

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Table 2. Fiscal Year 2015 and 2016 Sample Trips in the River Corridor Areas awaiting at the end of October 2015

Quarter Scheduled	GWIA	SAMP_SITE TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
		WELL	399-1-67	9/16/2015	Annual	10		Special Study
		WELL	399-1-67	9/17/2015	Annual	10		Special Study
		WELL	399-1-67	9/18/2015	Annual	10		Special Study
		WELL	399-1-67	9/19/2015	Annual	10		Special Study
		WELL	399-1-67	9/20/2015	Annual	10		Special Study
		WELL	399-1-67	9/27/2015	Annual	10		Special Study
		WELL	399-1-69	9/27/2015	Annual	10		Special Study
		WELL	399-1-70	9/27/2015	Annual	10		Special Study
		WELL	399-1-71	9/27/2015	Annual	10		Special Study
		WELL	399-1-72	9/27/2015	Annual	10		Special Study
		WELL	399-1-73	9/27/2015	Annual	10		Special Study
		WELL	399-1-74	9/11/2015	Annual	10		Special Study
		WELL	399-1-74	9/12/2015	Annual	10		Special Study
		WELL	399-1-74	9/13/2015	Annual	10		Special Study
		WELL	399-1-74	9/14/2015	Annual	10		Special Study
		WELL	399-1-74	9/15/2015	Annual	10		Special Study
		WELL	399-1-74	9/16/2015	Annual	10		Special Study
		WELL	399-1-74	9/17/2015	Annual	10		Special Study
		WELL	399-1-74	9/18/2015	Annual	10		Special Study
		WELL	399-1-74	9/19/2015	Annual	10		Special Study
		WELL	399-1-74	9/20/2015	Annual	10		Special Study
		WELL	399-1-74	9/27/2015	Annual	10		Special Study
		WELL	399-1-75	9/11/2015	Annual	10		Special Study
		WELL	399-1-75	9/12/2015	Annual	10		Special Study
		WELL	399-1-75	9/13/2015	Annual	10		Special Study
		WELL	399-1-75	9/14/2015	Annual	10		Special Study
		WELL	399-1-75	9/15/2015	Annual	10		Special Study
		WELL	399-1-75	9/16/2015	Annual	10		Special Study
		WELL	399-1-75	9/17/2015	Annual	10		Special Study
		WELL	399-1-75	9/18/2015	Annual	10		Special Study
		WELL	399-1-75	9/19/2015	Annual	10		Special Study
		WELL	399-1-75	9/20/2015	Annual	10		Special Study
		WELL	399-1-75	9/27/2015	Annual	10		Special Study
		WELL	399-1-76	9/27/2015	Annual	10		Special Study
		WELL	399-1-77	9/11/2015	Annual	10		Special Study
		WELL	399-1-77	9/12/2015	Annual	10		Special Study
		WELL	399-1-77	9/13/2015	Annual	10		Special Study
		WELL	399-1-77	9/14/2015	Annual	10		Special Study
		WELL	399-1-77	9/15/2015	Annual	10		Special Study
		WELL	399-1-77	9/16/2015	Annual	10		Special Study

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Table 2. Fiscal Year 2015 and 2016 Sample Trips in the River Corridor Areas awaiting at the end of October 2015

Quarter Scheduled	GWIA	SAMP_SITE TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
		WELL	399-1-77	9/17/2015	Annual	10		Special Study
		WELL	399-1-77	9/18/2015	Annual	10		Special Study
		WELL	399-1-77	9/19/2015	Annual	10		Special Study
		WELL	399-1-77	9/20/2015	Annual	10		Special Study
		WELL	399-1-77	9/27/2015	Annual	10		Special Study
		WELL	399-1-78	9/27/2015	Annual	10		Special Study
		WELL	399-1-79	9/27/2015	Annual	10		Special Study
		WELL	399-1-80	9/27/2015	Annual	10		Special Study
		WELL	399-1-81	9/11/2015	Annual	10		Special Study
		WELL	399-1-81	9/12/2015	Annual	10		Special Study
		WELL	399-1-81	9/13/2015	Annual	10		Special Study
		WELL	399-1-81	9/14/2015	Annual	10		Special Study
		WELL	399-1-81	9/15/2015	Annual	10		Special Study
		WELL	399-1-81	9/16/2015	Annual	10		Special Study
		WELL	399-1-81	9/17/2015	Annual	10		Special Study
		WELL	399-1-81	9/18/2015	Annual	10		Special Study
		WELL	399-1-81	9/19/2015	Annual	10		Special Study
		WELL	399-1-81	9/20/2015	Annual	10		Special Study
		WELL	399-1-81	9/27/2015	Annual	10		Special Study
		WELL	399-1-82	9/27/2015	Annual	10		Special Study
		WELL	399-1-83	9/27/2015	Annual	10		Special Study
		WELL	399-1-84	9/27/2015	Annual	10		Special Study
		WELL	399-1-85	9/27/2015	Annual	10		Special Study
		WELL	399-1-86	9/27/2015	Annual	10		Special Study
		WELL	399-1-87	9/11/2015	Annual	10		Special Study
		WELL	399-1-87	9/12/2015	Annual	10		Special Study
		WELL	399-1-87	9/13/2015	Annual	10		Special Study
		WELL	399-1-87	9/14/2015	Annual	10		Special Study
		WELL	399-1-87	9/15/2015	Annual	10		Special Study
		WELL	399-1-87	9/16/2015	Annual	10		Special Study
		WELL	399-1-87	9/17/2015	Annual	10		Special Study
		WELL	399-1-87	9/18/2015	Annual	10		Special Study
		WELL	399-1-87	9/19/2015	Annual	10		Special Study
		WELL	399-1-87	9/20/2015	Annual	10		Special Study
		WELL	399-1-87	9/27/2015	Annual	10		Special Study
FY 2016 Q1	100-BC	WELL	199-B2-14	10/1/2015	Annual	11		Access Restricted
	100-FR	AQUIFER TUBE	77-D	10/1/2015	Annual	11		
	100-HR-D	WELL	199-D4-55	10/1/2015	Quarterly	2		Access Restricted
		WELL	199-D4-65	10/1/2015	Quarterly	2		Access Restricted
		WELL	199-D4-77	10/1/2015	Quarterly	2		Access Restricted

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Table 2. Fiscal Year 2015 and 2016 Sample Trips in the River Corridor Areas awaiting at the end of October 2015

Quarter Scheduled	GWIA	SAMP_SITE TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
		WELL	199-D5-20	10/1/2015	Quarterly	2		
	100-HR-H	WELL	199-H1-8	10/1/2015	Quarterly	2		Awaiting Drilling
		WELL	199-H6-7	10/1/2015	Quarterly	2		
		WELL	199-H6-8	10/1/2015	Quarterly	2		
		WELL	699-101-45	10/1/2015	Quarterly	2		
		WELL	699-90-34	10/1/2015	Quarterly	2	1/2/1900	Access Restricted
		100-KR	SPRING	100-K SPRING 68-1	10/1/2015	Annual	11	
	WELL		199-K-166	10/1/2015	Quarterly	2		
	WELL		199-K-221	10/1/2015	Quarterly	2		Not Accepted, Not on WAL
	WELL		199-K-222	10/1/2015	Quarterly	2		Not Accepted, Not on WAL
	AQUIFER TUBE		21-S	10/1/2015	Annual	11		
	AQUIFER TUBE		AT-K-4-M	10/1/2015	Annual	11		
	AQUIFER TUBE		DK-04-2	10/1/2015	Annual	11		
	100-NR	RIVER	River water adjacent to C6317/18/19	10/1/2015	Annual	11		
		RIVER	River water adjacent to C7934/35/36	10/1/2015	Annual	11		
		RIVER	River water adjacent to C7937/38/39	10/1/2015	Annual	11		
	300-FF	WELL	399-1-24	10/4/2015	Annual	11		Special Study
		WELL	399-1-24	10/11/2015	Annual	11		Special Study
		WELL	399-1-24	10/18/2015	Annual	11		Special Study
		WELL	399-1-25	10/4/2015	Annual	11		Special Study
		WELL	399-1-25	10/11/2015	Annual	11		Special Study
		WELL	399-1-25	10/18/2015	Annual	11		Special Study
		WELL	399-1-36	10/4/2015	Annual	11		Special Study
		WELL	399-1-36	10/11/2015	Annual	11		Special Study
		WELL	399-1-36	10/18/2015	Annual	11		Special Study
		WELL	399-1-37	10/4/2015	Annual	11		Special Study
		WELL	399-1-37	10/11/2015	Annual	11		Special Study
		WELL	399-1-37	10/18/2015	Annual	11		Special Study
		WELL	399-1-65	10/4/2015	Annual	11		Special Study
		WELL	399-1-65	10/11/2015	Annual	11		Special Study
		WELL	399-1-65	10/18/2015	Annual	11		Special Study
		WELL	399-1-65	10/19/2015	Annual	11		Special Study
		WELL	399-1-65	10/20/2015	Annual	11		Special Study
		WELL	399-1-65	10/21/2015	Annual	11		Special Study
		WELL	399-1-65	10/22/2015	Annual	11		Special Study
		WELL	399-1-65	10/23/2015	Annual	11		Special Study
	WELL	399-1-65	10/24/2015	Annual	11		Special Study	

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Table 2. Fiscal Year 2015 and 2016 Sample Trips in the River Corridor Areas awaiting at the end of October 2015

Quarter Scheduled	GWIA	SAMP_SITE TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
		WELL	399-1-65	10/25/2015	Annual	11		Special Study
		WELL	399-1-65	10/26/2015	Annual	11		Special Study
		WELL	399-1-66	10/4/2015	Annual	11		Special Study
		WELL	399-1-66	10/11/2015	Annual	11		Special Study
		WELL	399-1-66	10/18/2015	Annual	11		Special Study
		WELL	399-1-67	10/4/2015	Annual	11		Special Study
		WELL	399-1-67	10/11/2015	Annual	11		Special Study
		WELL	399-1-67	10/18/2015	Annual	11		Special Study
		WELL	399-1-67	10/19/2015	Annual	11		Special Study
		WELL	399-1-67	10/20/2015	Annual	11		Special Study
		WELL	399-1-67	10/21/2015	Annual	11		Special Study
		WELL	399-1-67	10/22/2015	Annual	11		Special Study
		WELL	399-1-67	10/23/2015	Annual	11		Special Study
		WELL	399-1-67	10/24/2015	Annual	11		Special Study
		WELL	399-1-67	10/25/2015	Annual	11		Special Study
		WELL	399-1-67	10/26/2015	Annual	11		Special Study
		WELL	399-1-69	10/4/2015	Annual	11		Special Study
		WELL	399-1-69	10/11/2015	Annual	11		Special Study
		WELL	399-1-69	10/18/2015	Annual	11		Special Study
		WELL	399-1-70	10/4/2015	Annual	11		Special Study
		WELL	399-1-70	10/11/2015	Annual	11		Special Study
		WELL	399-1-70	10/18/2015	Annual	11		Special Study
		WELL	399-1-71	10/4/2015	Annual	11		Special Study
		WELL	399-1-71	10/11/2015	Annual	11		Special Study
		WELL	399-1-71	10/18/2015	Annual	11		Special Study
		WELL	399-1-72	10/4/2015	Annual	11		Special Study
		WELL	399-1-72	10/11/2015	Annual	11		Special Study
		WELL	399-1-72	10/18/2015	Annual	11		Special Study
		WELL	399-1-73	10/4/2015	Annual	11		Special Study
		WELL	399-1-73	10/11/2015	Annual	11		Special Study
		WELL	399-1-73	10/18/2015	Annual	11		Special Study
		WELL	399-1-74	10/4/2015	Annual	11		Special Study
		WELL	399-1-74	10/11/2015	Annual	11		Special Study
		WELL	399-1-74	10/18/2015	Annual	11		Special Study
		WELL	399-1-74	10/19/2015	Annual	11		Special Study
		WELL	399-1-74	10/20/2015	Annual	11		Special Study
		WELL	399-1-74	10/21/2015	Annual	11		Special Study
		WELL	399-1-74	10/22/2015	Annual	11		Special Study
		WELL	399-1-74	10/23/2015	Annual	11		Special Study
		WELL	399-1-74	10/24/2015	Annual	11		Special Study

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Table 2. Fiscal Year 2015 and 2016 Sample Trips in the River Corridor Areas awaiting at the end of October 2015

Quarter Scheduled	GWIA	SAMP_SITE TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
		WELL	399-1-74	10/25/2015	Annual	11		Special Study
		WELL	399-1-74	10/26/2015	Annual	11		Special Study
		WELL	399-1-75	10/4/2015	Annual	11		Special Study
		WELL	399-1-75	10/11/2015	Annual	11		Special Study
		WELL	399-1-75	10/18/2015	Annual	11		Special Study
		WELL	399-1-75	10/19/2015	Annual	11		Special Study
		WELL	399-1-75	10/20/2015	Annual	11		Special Study
		WELL	399-1-75	10/21/2015	Annual	11		Special Study
		WELL	399-1-75	10/22/2015	Annual	11		Special Study
		WELL	399-1-75	10/23/2015	Annual	11		Special Study
		WELL	399-1-75	10/24/2015	Annual	11		Special Study
		WELL	399-1-75	10/25/2015	Annual	11		Special Study
		WELL	399-1-75	10/26/2015	Annual	11		Special Study
		WELL	399-1-76	10/4/2015	Annual	11		Special Study
		WELL	399-1-76	10/11/2015	Annual	11		Special Study
		WELL	399-1-76	10/18/2015	Annual	11		Special Study
		WELL	399-1-77	10/4/2015	Annual	10		Special Study
		WELL	399-1-77	10/11/2015	Annual	11		Special Study
		WELL	399-1-77	10/18/2015	Annual	11		Special Study
		WELL	399-1-77	10/19/2015	Annual	11		Special Study
		WELL	399-1-77	10/20/2015	Annual	11		Special Study
		WELL	399-1-77	10/21/2015	Annual	11		Special Study
		WELL	399-1-77	10/22/2015	Annual	11		Special Study
		WELL	399-1-77	10/23/2015	Annual	11		Special Study
		WELL	399-1-77	10/24/2015	Annual	11		Special Study
		WELL	399-1-77	10/25/2015	Annual	11		Special Study
		WELL	399-1-77	10/26/2015	Annual	11		Special Study
		WELL	399-1-78	10/4/2015	Annual	11		Special Study
		WELL	399-1-78	10/11/2015	Annual	11		Special Study
		WELL	399-1-78	10/18/2015	Annual	11		Special Study
		WELL	399-1-79	10/4/2015	Annual	11		Special Study
		WELL	399-1-79	10/11/2015	Annual	11		Special Study
		WELL	399-1-79	10/18/2015	Annual	11		Special Study
		WELL	399-1-80	10/4/2015	Annual	11		Special Study
		WELL	399-1-80	10/11/2015	Annual	11		Special Study
		WELL	399-1-80	10/18/2015	Annual	11		Special Study
		WELL	399-1-81	10/4/2015	Annual	11		Special Study
		WELL	399-1-81	10/11/2015	Annual	11		Special Study
		WELL	399-1-81	10/18/2015	Annual	11		Special Study
		WELL	399-1-81	10/19/2015	Annual	11		Special Study

**100/300 Areas Unit Managers Meeting
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Table 2. Fiscal Year 2015 and 2016 Sample Trips in the River Corridor Areas awaiting at the end of October 2015

Quarter Scheduled	GWIA	SAMP_SITE TYPE	SITE_NAME	SCHEDULE DATE	Frequency	Months Remain	Status	Comment
		WELL	399-1-81	10/20/2015	Annual	11		Special Study
		WELL	399-1-81	10/21/2015	Annual	11		Special Study
		WELL	399-1-81	10/22/2015	Annual	11		Special Study
		WELL	399-1-81	10/23/2015	Annual	11		Special Study
		WELL	399-1-81	10/24/2015	Annual	11		Special Study
		WELL	399-1-81	10/25/2015	Annual	11		Special Study
		WELL	399-1-81	10/26/2015	Annual	11		Special Study
		WELL	399-1-82	10/4/2015	Annual	11		Special Study
		WELL	399-1-82	10/11/2015	Annual	11		Special Study
		WELL	399-1-82	10/18/2015	Annual	11		Special Study
		WELL	399-1-83	10/4/2015	Annual	11		Special Study
		WELL	399-1-83	10/11/2015	Annual	11		Special Study
		WELL	399-1-83	10/18/2015	Annual	11		Special Study
		WELL	399-1-84	10/4/2015	Annual	11		Special Study
		WELL	399-1-84	10/11/2015	Annual	11		Special Study
		WELL	399-1-84	10/18/2015	Annual	11		Special Study
		WELL	399-1-85	10/4/2015	Annual	11		Special Study
		WELL	399-1-85	10/11/2015	Annual	11		Special Study
		WELL	399-1-85	10/18/2015	Annual	11		Special Study
		WELL	399-1-86	10/4/2015	Annual	11		Special Study
		WELL	399-1-86	10/11/2015	Annual	11		Special Study
		WELL	399-1-86	10/18/2015	Annual	11		Special Study
		WELL	399-1-87	10/4/2015	Annual	11		Special Study
		WELL	399-1-87	10/11/2015	Annual	11		Special Study
		WELL	399-1-87	10/18/2015	Annual	11		Special Study
		WELL	399-1-87	10/19/2015	Annual	11		Special Study
		WELL	399-1-87	10/20/2015	Annual	11		Special Study
		WELL	399-1-87	10/21/2015	Annual	11		Special Study
		WELL	399-1-87	10/22/2015	Annual	11		Special Study
		WELL	399-1-87	10/23/2015	Annual	11		Special Study
		WELL	399-1-87	10/24/2015	Annual	11		Special Study
		WELL	399-1-87	10/25/2015	Annual	11		Special Study
		WELL	399-1-87	10/26/2015	Annual	11		Special Study
		WELL	699-S3-E12	10/1/2015	Annual	11		Access Restricted
		AQUIFER TUBE	C6368	10/1/2015	Annual	11		
		AQUIFER TUBE	C6374	10/1/2015	Annual	11		
		AQUIFER TUBE	C6378	10/1/2015	Annual	11		
		AQUIFER TUBE	C6380	10/1/2015	Annual	11		

**100/300 Areas Unit Managers Meeting
November 12, 2015**

**Table 3. Groundwater Sampling Locations in the River Corridor Areas Scheduled to be sampled in
November 2015**

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
	199-F7-2	199-D2-11	100-H SPRING 145-1	199-K-106A	199-K-149		
	199-F8-2	199-D4-39	100-H SPRING 150-1	199-K-107A	199-K-150		
	199-F8-4	199-D4-83	100-H SPRING 152-2	199-K-108A	C7934		
	199-F8-7	199-D5-104	100-H SPRING 153-1	199-K-11	C7935		
	699-60-32	199-D5-106	199-H1-32	199-K-110A	C7936		
	699-62-31	199-D5-132	199-H1-33	199-K-111A			
	699-63-25A	199-D5-133	199-H1-35	199-K-112A			
	699-64-27	199-D5-142	199-H1-37	199-K-113A			
	699-66-23	199-D5-143	199-H1-38	199-K-114A			
		199-D5-146	199-H1-40	199-K-115A			
		199-D5-147	199-H1-7	199-K-116A			
		199-D5-34	199-H2-1	199-K-118A			
		199-D5-39	199-H3-10	199-K-119A			
		199-D5-41	199-H3-3	199-K-120A			
		199-D5-92	199-H3-4	199-K-124A			
		199-D5-97	199-H3-5	199-K-125A			
		199-D6-3	199-H3-6	199-K-127			
		199-D8-71	199-H3-7	199-K-129			
		36-M	199-H3-9	199-K-13			
		36-S	199-H4-11	199-K-133			
		38-D	199-H4-12A	199-K-134			
		38-M	199-H4-12C	199-K-135			
		699-93-48A	199-H4-15A	199-K-136			
		699-95-48	199-H4-16	199-K-137			
		699-95-51	199-H4-4	199-K-138			
		699-96-52B	199-H4-46	199-K-139			
		699-97-51A	199-H4-49	199-K-140			
		699-98-49A	199-H4-65	199-K-141			
		AT-D-1-D	199-H4-8	199-K-142			
		AT-D-1-M	199-H4-84	199-K-144			
		AT-D-1-S	199-H4-85	199-K-145			
		AT-D-2-M	199-H4-86	199-K-153			
		AT-D-2-S	199-H5-1A	199-K-154			
		AT-D-3-D	199-H6-1	199-K-157			
		AT-D-3-M	199-H6-3	199-K-161			
		AT-D-3-S	199-H6-4	199-K-162			
		AT-D-4-D	44-M	199-K-163			
		AT-D-4-M	45-D	199-K-168			
		AT-D-4-S	45-M	199-K-171			
		AT-D-5-D	45-S	199-K-178			

**100/300 Areas Unit Managers Meeting
November 12, 2015**

Table 3. Groundwater Sampling Locations in the River Corridor Areas Scheduled to be sampled in November 2015

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
		AT-D-5-M	47-D	199-K-181			
		C6266	47-M	199-K-182			
		C6267	48-M	199-K-184			
		C6268	48-S	199-K-185			
		C6269	49-D	199-K-186			
		C6270	50-M	199-K-187			
		C6271	50-S	199-K-188			
		C6272	52-D	199-K-189			
		C6275	52-M	199-K-190			
		C6278	52-S	199-K-191			
		C6281	54-D	199-K-192			
		C6282	54-M	199-K-193			
		C7645	54-S	199-K-194			
		C7646	699-94-41	199-K-196			
		C7647	699-94-43	199-K-197			
		C7648	699-95-45	199-K-198			
		DD-06-2	699-97-41	199-K-199			
		DD-06-3	699-99-41	199-K-200			
		DD-12-2	699-99-44	199-K-201			
		DD-12-4	AT-H-1-D	199-K-208			
		DD-15-2	AT-H-1-M	199-K-209			
		DD-15-3	AT-H-1-S	199-K-210			
		DD-15-4	AT-H-2-D	199-K-212			
		DD-16-3	AT-H-2-M	199-K-220			
		DD-16-4	AT-H-2-S	199-K-23			
		DD-17-2	AT-H-3-D	199-K-32A			
		DD-17-3	AT-H-3-S	199-K-34			
		DD-39-1	C5632	199-K-36			
		DD-41-1	C5633	199-K-37			
		DD-41-2	C5634	699-78-62			
		DD-41-3	C5635				
		DD-42-2	C5636				
		DD-42-3	C5637				
		DD-42-4	C5638				
		DD-43-2	C5641				
		DD-43-3	C5644				
		DD-44-3	C5673				
		DD-44-4	C5674				
		DD-49-1	C5676				
		DD-49-2	C5677				

**100/300 Areas Unit Managers Meeting
November 12, 2015**

Table 3. Groundwater Sampling Locations in the River Corridor Areas Scheduled to be sampled in November 2015

100-BC	100-FR	100-HR-D	100-HR-H	100-KR	100-NR	1100-EM	300-FF
		DD-49-3	C5678				
		DD-49-4	C5679				
		DD-50-1	C5680				
		DD-50-2	C5681				
		DD-50-3	C5682				
		DD-50-4	C6284				
		Redox-1-3.3	C6285				
		Redox-1-6.0	C6286				
		Redox-2-6.0	C6290				
		Redox-3-3.3	C6291				
		Redox-3-4.6	C6293				
		Redox-4-3.0	C6296				
		Redox-4-6.0	C6297				
		SD-110-2	C6299				
			C6300				
			C6301				
			C7649				
			C7650				
			SH-144-1				

**100/300 Areas Unit Managers Meeting
November 12, 2015**

Documents for AR Submission

Number	Title	Referencing Doc/Driver
DOE/RL-2003-38, 2015	100-BC-5 Sampling and Analysis Plan, Rev. 2 Draft A.	cleared September 2015
DOE/RL-2014-42, 2015	300-FF-5 OU Remedy Implementation Sampling and Analysis Plan, Rev. 0	cleared September 2015
DOE/RL-2015-29 DA	2015 Groundwater Monitoring Plan for the 300 Area Process Trenches	cleared October 2015
DOE/RL-2001-27 R2 Draft A	Remedial Design/Remedial Action Work Plan for the 100-NR-2 Operable Unit	cleared September 2015
DOE/RL-2015-28, Draft A	2015 Groundwater Monitoring Plan for the 183-H Solar Evaporation Basins	cleared September 2015
ECF-Hanford-15-0003, R0, 2015	Calculation and Depiction of Groundwater Contamination for the Calendar Year 2014 Hanford Site Groundwater Monitoring Report	cleared October 2015
ECF-100FR3-11-0116, 2012	Modeling of RI/FS Design Alternatives for 100-FR-3, Rev. 3, CH2M HILL Plateau Remediation Company, Richland, Washington.	ECF-Hanford-15-0001, R0
ECF-100KR2-12-0021, 2012	Modeling Evaluation of Waste Sites Near 100-KE Reactor, Rev. 0, CH2M HILL Plateau Remediation Company, Richland, Washington	ECF-Hanford-15-0001, R0
ECF-Hanford-13-0028, 2014	ECF-Hanford-13-0028, 2014, Columbia River Stage Correlation for the Hanford Area, Rev. 0, CH2M HILL Plateau Remediation Company, Richland, Washington.	ECF-Hanford-15-0001, R0
ECF-300FF5-15-0017, R0, 2015	Calculation of Concentration Trends, Means, and Confidence Limits for cis-1,2-Dichloroethene, Gross Alpha, Nitrate, Trichloroethene, Tritium, and Uranium in the 300-FF-5 Operable Unit	cleared October 2015
SGW-59251, R0, 2015	Post-Closure Corrective Action Groundwater Monitoring Report for the 183-H Solar Evaporation Basins and the 300 Area Process Trenches: January - June 2015	cleared October 2015
SGW-58883, 2015	Methodology for Calculation of Concentration Trends, Means, and Confidence Limits for Performance Attainment Monitoring, Rev. 0	cleared September 2015
SGW-46279, R0	Conceptual Framework and Numerical Implementation of 100 Areas Groundwater Flow and Transport Model, Rev. 3, CH2M HILL Plateau Remediation Company, Richland, Washington.	ECF-Hanford-15-0001, R0
SGW-47446, 2015	End of Fiscal Year 2011 Summary for the Low-Flow Groundwater Sampling Field Test at the Hanford Site	cleared September 2015
SGW-58830, R0, 2014	300-FF-5 Supplemental Post-ROD Field Investigation Summary	cleared September 2015

**100/300 Areas Unit Managers Meeting
November 12, 2015**

Number	Title	Referencing Doc/Driver
SGW-50010	Borehole Summary Report for the Installation of 8 Boreholes in the 100 BC Area in Support of WCH and RI/FS in FY 2010 2011	needed to support the 100-BC RI/FS
SGW-49672	Borehole Summary Report for the Installation of 6 Wells in the 100-BC-5 Operable Unit to Support RI/FS	needed to support the 100-BC RI/FS
SGW-48720	Borehole Summary Report for the Installation of Four Wells in the 100 BC 5 Operable Unit in Fiscal Year 2009	needed to support the 100-BC RI/FS
TPA-CN-699	TPA Change Notice to DOE/RL-2000-41, Interim Action Waste Management Plan for the 100-NR-2 Operable Unit, Rev. 1	Needed to support replacement of 100-N aquifer tubes for the PRB

Attachment 2

100K Area Report
100/300 Area Unit Manager Meeting
November, 2015

RL-0012 Sludge Treatment Project

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

- Statements of Work for ECRTS equipment procurement have been grouped into 20 separate procurement sets. Fourteen procurement sets have been fully developed and are in the formal acquisition process, five procurement sets have been completed, and one remains to be developed.
- The first of 24 total STCSs has been fabricated and received. Procurement of material supporting fabrication of the next 12 STCSs is in progress.
- RL continues review of the updated Preliminary Documented Safety Analysis (PDSA) and Safety Design Strategy (SDS). KW Basin integrated Documented Safety Analysis (DSA) development has begun. The integrated DSA combines the ECRTS PDSA and the KW Basin Final Safety Analysis Report into a single safety basis document.
- KW Basin Annex Construction Acceptance Testing continues.

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

- ECRTS tooling and equipment fabrication, testing, and operating procedure and training development continue.
- Specifications are being developed for Pre-operational Acceptance Testing to be performed at MASF.

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

- The following pre-deactivation actions are underway:
 - Integrated Water Treatment System garnet filter media removal system design continues.
 - A Skimmer System sand filter media sample has been provided to PNNL for analysis and characterization.
 - Radiation Control Engineers continue with dose to curie modeling utilizing data provided by KW Basin operations. This characterization data will become a key input to the calculation to demonstrate compliance with ERDF waste acceptance criteria for 105-KW Basin substructure demolition rubble.

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

- The preliminary treatment and packaging site evaluation report and the remedial design/remedial action work plan (DOE/RL-2011-15) for sludge treatment and packaging have been issued.

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

(9/30/23) – On Schedule

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

(12/31/23) – On Schedule

RL-0041 K Facility Demolition and Soil Remediation

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

- Excavation of nine waste sites within the AB waste site area near the 100KE head house began in October. In-process sampling is expected to begin in November.

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.*

(9/30/2024) - On Schedule

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

(9/30/24) - On Schedule

Attachment 3

November 12, 2015 Unit Manager's Meeting Closure Operations Status

100 Areas (B/C, D, H, N)

Revegetation began last week at 100-D and will be continuing as shown in attached schedule.

618-10

Trench Remediation

- Continuing processing and load-out of drums of waste material.
- Continuing primary/secondary sorting and load-out.
- Concrete drum processing begun approximately 4 weeks ago and continuing.
- Continuing retrieval, overpacking and NDA of drums encountered in trench.

VPU Remediation

- Eight (8) VPUs in Row 2 have been augered and characterized (in-situ) to date.
- Results of the in-situ characterization have shown, thus far, that ranking calculation has been conservative in regard to radiological contamination.

300 Area

324 Building

- Continue S&M (min-safe operations) through FY 16.
- Replacement of Zone 1 HEPA filters pending.
- Revising abated and unabated TEDE calculations.

300-288:2

- Remediation of Phase I progressing well, currently estimated to complete in January of 16.
- Offsite dose calculation for low level contamination complete.
- Draft Work Instruction for waste site 288:2 is complete and has been submitted for DOE and EPA review.

Site Completion

- Demobilization ongoing.

WSRFs/CVPs

- 300-277 pending
- 300-288:2 pending

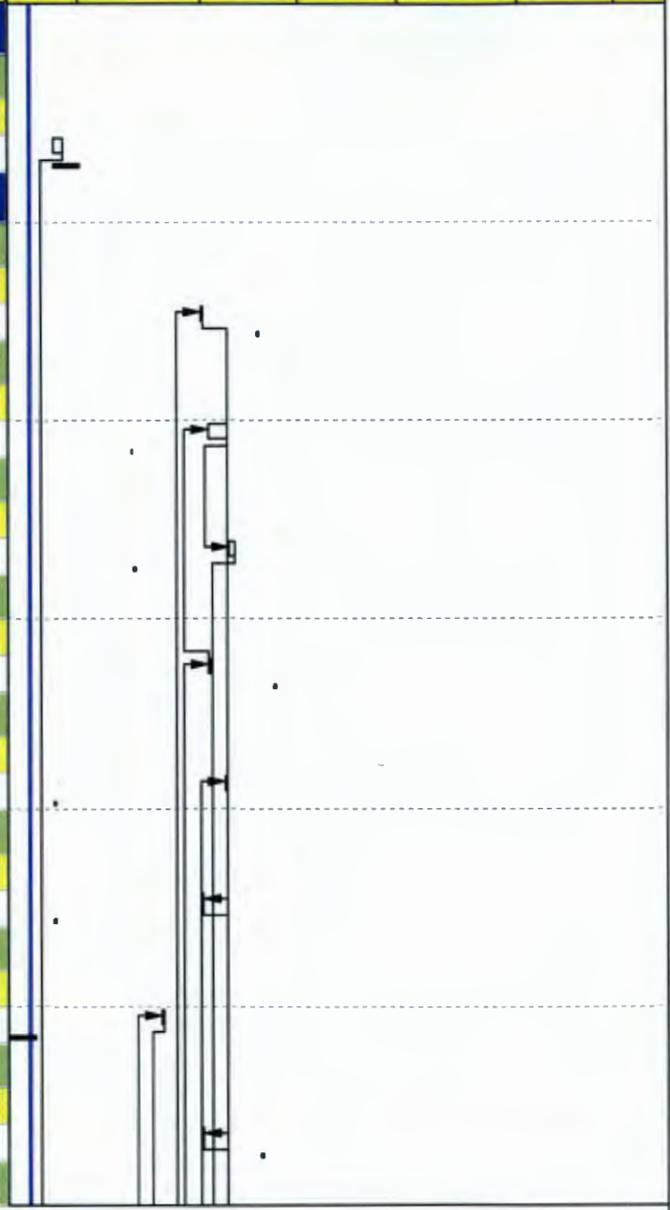
300 Area Removal Action Work Plan

- Under revision with EPA for review.
- Incorporates 9 TPA-CNs, updated facility status, new retained facilities section.

Attachment 4

100 Area UMM Schedule

Activity ID	Activity Name	Start	Finish	FY2016					
				N	DEC-2015	J	FEB-2016	MAR-2016	A
100 B/C									
100-B-35:1									
Revegetation									
BB524E10	Reveg 100-B-35:1 (11.5 Acres)	16-Nov-15*	18-Nov-15						
100 D									
100-D-69									
Revegetation									
CBB0535E	Reveg 100-D-69 (0.25 Acres)	28-Dec-15	28-Dec-15						
100-D-85:2									
Revegetation									
CBB0544E	Reveg 100-D-85:2 (9.0 acres)	30-Dec-15	04-Jan-16						
100-D-86:1									
Revegetation									
CBB0545E	Reveg 100-D-86:1 (8.0 acres)	05-Jan-16	06-Jan-16						
100-D-99									
Revegetation									
CBB0550E	Reveg 100-D-99 (0.5 Acres)	30-Dec-15	30-Dec-15						
100-D-75:1									
Revegetation									
CBB0558E	Reveg 100-D-75:1 (6.70 acres)	04-Jan-16	04-Jan-16						
100-D-106									
Revegetation									
CBC0518E	Reveg 100-D-106 (1.25 Acres)	28-Dec-15	28-Dec-15						
118-D-1									
Revegetation									
CBC0604E	Reveg 118-D-1 (2.51 acres)	17-Dec-15	17-Dec-15						
118-D-5									
Revegetation									
CBC0608E	Reveg 118-D-5 (1.0 acres)	28-Dec-15	28-Dec-15						
118-DR-1									

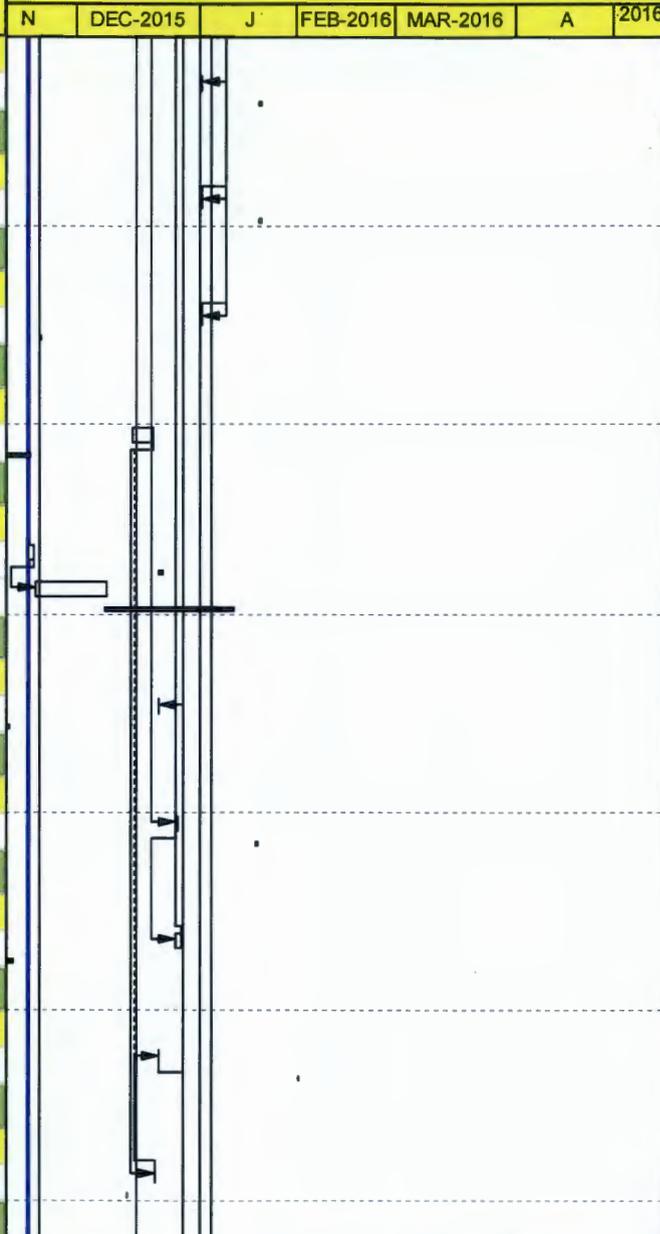


Current Bar Labels
 % Complete
 Project Baseline
 ◆ ◆ Milestone

Closure Operations

100 Area UMM Schedule

Activity ID	Activity Name	Start	Finish	FY2016						
				N	DEC-2015	J	FEB-2016	MAR-2016	A	2016
Revegetation										
CBC0609E	Reveg 118-DR-1 (1.0 acres)	28-Dec-15	28-Dec-15							
120-D-2										
Revegetation										
CBB0404E	Reveg 120-D-2 (0.5 acres)	28-Dec-15	28-Dec-15							
100-D-86:3										
Revegetation										
CBB0546E	Reveg 100-D-86:3 (2.0 acres)	28-Dec-15	28-Dec-15							
100-D-31:11/:12										
Revegetation										
CBB0516J	Reveg 100-D-31:11/12 (14.43 acres)	09-Dec-15	14-Dec-15							
100-D-100										
Revegetation										
100D100A280	Reveg 100-D-100 (10 acres)	09-Nov-15	10-Nov-15							
100D100A432	Reveg 100-D-100 (Tied to Tier 3) - 48.86 acres	11-Nov-15	01-Dec-15							
100D281										
Revegetation										
CBC0507E	Reveg 100-D-28:1 (0.33 acres) (tied to D-50:6)	16-Dec-15	16-Dec-15							
100-D-50:6										
Revegetation										
RD1506500	Reveg 100-D-50:6 (5.0 acres)	21-Dec-15	21-Dec-15							
100-D-50:7										
Revegetation										
RD05507140	Reveg 100-D-50:7 (5.74 acres)	21-Dec-15	22-Dec-15							
100-D-50:9										
Revegetation										
RD05509140	Reveg 100-D-50:9 (3.0 acres)	16-Dec-15	16-Dec-15							
100-D-72										
Revegetation										
CBB0537E	Reveg 100-D-72 (1.57 acres)	15-Dec-15	15-Dec-15							
100-D-97										



Current Bar Labels
 % Complete
 Project Baseline
 ◆ Milestone

Closure Operations

100 Area UMM Schedule

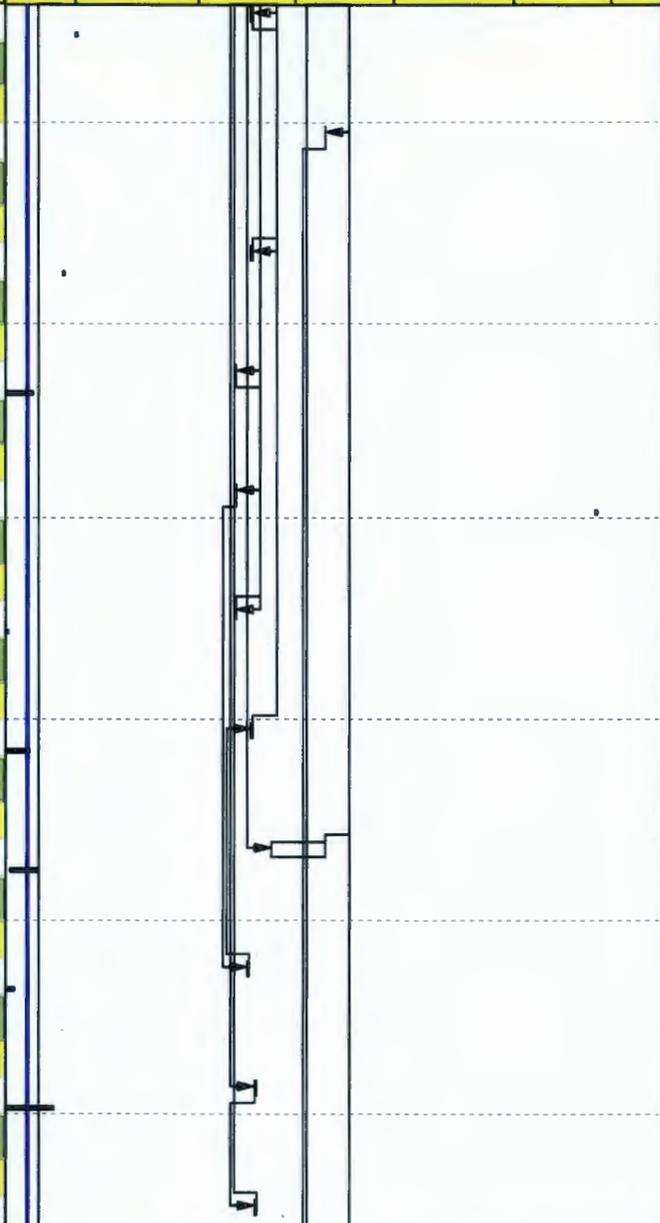
Activity ID	Activity Name	Start	Finish	FY2016						
				N	DEC-2015	J	FEB-2016	MAR-2016	A	2016
Revegetation										
CBB0548E	Reveg 100-D-97 (0.5 acres)	30-Dec-15	30-Dec-15							
1607-D5										
Revegetation										
RD67D51500	Reveg 1607-D5 (0.10 acres)	16-Dec-15	16-Dec-15							
100 H										
100-H-59:2										
Final Project Closeout										
H592091	RL/Reg Sign Rev 0 Closure Doc 100-H-59:2	28-Oct-15 A	09-Nov-15							
H592121	Prepare and Issue Rev 0 Closure Doc 100-H-59:2	10-Nov-15	18-Nov-15							
Backfill										
H592021	Recontour 100-H-59:2 (1,300 BCMs)	10-Nov-15	16-Nov-15							
Revegetation										
H592101	Reveg 100-H-59:2 (2.5 acres)	07-Jan-16	07-Jan-16							
116-H-9										
Revegetation										
HB404E20	Reveg 116-H-9 (0.40 acre)	07-Jan-16	07-Jan-16							
100-H-51:2										
Revegetation										
HB520E	Reveg 100-H-51:2 (1.25 acre)	12-Jan-16	12-Jan-16							
100-H-49:1										
Revegetation										
HB524E	Reveg 100-H-49:1 (0.3 Acres)	14-Jan-16	14-Jan-16							
100-H-51:1										
Revegetation										
HB525E	Reveg 100-H-51:1 (0.30 Acres)	02-Feb-16	02-Feb-16							
100-H-51:3										
Revegetation										
HB526E	Reveg 100-H-51:3 (0.30 Acres)	04-Feb-16	04-Feb-16							
100-H-51:6										
Revegetation										

Current Bar Labels
 % Complete
 Project Baseline
 Milestone

Closure Operations

100 Area UMM Schedule

Activity ID	Activity Name	Start	Finish	FY2016						
				N	DEC-2015	J	FEB-2016	MAR-2016	A	2016
HB526E10	Reveg 100-H-51:6 (1.60 Acres)	12-Jan-16	12-Jan-16							
118-H-4										
Revegetation										
HC604E20	Reveg 118-H-4 (0.22 acre)	02-Feb-16	02-Feb-16							
100-H-59:1										
Revegetation										
HB528E	Reveg 100-H-59:1 (1.0 Acres)	12-Jan-16	12-Jan-16							
100-H-31										
Revegetation										
HB502E	Reveg 100-H-31 (0.33 acre)	07-Jan-16	07-Jan-16							
116-H-5										
Revegetation										
HB503E20	Reveg 116-H-5 (3.0 acres)	07-Jan-16	07-Jan-16							
100-H-3										
Revegetation										
HB900F1	Reveg 100-H-3 (0.3 acres) (tied with H-43)	07-Jan-16	07-Jan-16							
100-H-4										
Revegetation										
HB910F1	Reveg 100-H-4 (1.2 acres) (tied with H-43)	12-Jan-16	12-Jan-16							
100-H-28:2										
Revegetation										
HB511E07	Reveg 100-H-28:2 (49.0 Acres)	18-Jan-16	02-Feb-16							
100-H-28:3										
Revegetation										
HB512E	Reveg 100-H-28:3 (4.0 acres)	11-Jan-16	11-Jan-16							
100-H-28:4										
Revegetation										
HB513E50	Reveg 100-H-28:4 (4.25 Acres)	13-Jan-16	13-Jan-16							
100-H-28:5										
Revegetation										
HB514E	Reveg 100-H-28:5 (4.0 acre)	13-Jan-16	13-Jan-16							

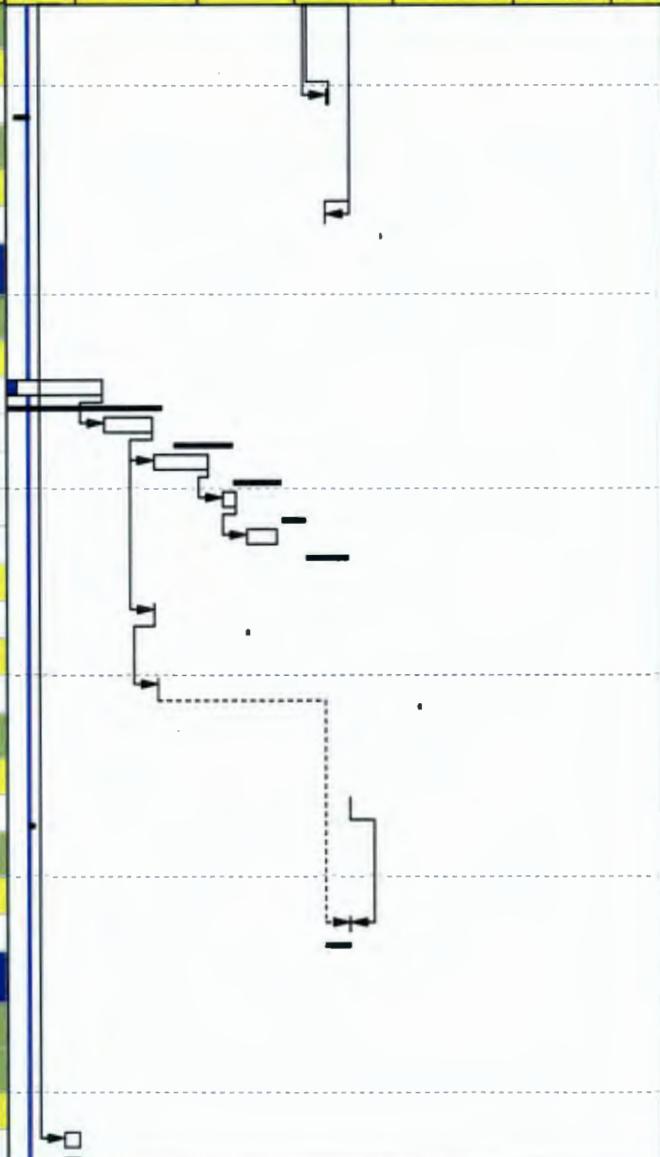


Current Bar Labels
 % Complete
 Project Baseline
 ◆ Milestone

Closure Operations

100 Area UMM Schedule

Activity ID	Activity Name	Start	Finish	FY2016							
				N	DEC-2015	J	FEB-2016	MAR-2016	A	2016	
100-H-42											
Revegetation											
HB515E	Reveg 100-H-42 (2.5 acre)	03-Feb-16	03-Feb-16								
100-H-44											
Revegetation											
HB517E	Reveg 100-H-44 (1.0 acres)	02-Feb-16	02-Feb-16								
IU-2/6											
600-326 *Cultural Review In-Progress											
Final Project Closeout											
IU222720	Prepare Closure Doc 600-326	12-Oct-15 A	30-Nov-15								
IU222730	RL/Reg Review of Draft A Closure Doc 600-326	01-Dec-15	14-Dec-15								
IU222735	Resolve RL/Reg Comments Draft A Closure Doc 600-326	15-Dec-15	30-Dec-15								
IU222740	RL/Reg Signature Rev.0 Closure Doc 600-326	04-Jan-16	07-Jan-16								
IU222745	Prepare and Issue Rev.0 Closure Doc 600-326	11-Jan-16	19-Jan-16								
Backfill											
IU222660	Backfill 600-326 (1 BCM)	15-Dec-15	15-Dec-15								
Revegetation											
IU222680	Reveg 600-326 (0.1 acre)	16-Dec-15	16-Dec-15								
600-20											
Revegetation											
IU226210	Reveg 600-20 (3.12 acres)	09-Feb-16	09-Feb-16								
600-332											
Revegetation											
IU223680	Reveg 600-332 (1 acre)	09-Feb-16	09-Feb-16								
100 N											
100-N-83 *Cultural Review In-Progress											
100-N-96											
Revegetation											
NB5C3E	Reveg 100-N-96 (8.16 Acres)	19-Nov-15	23-Nov-15								



Current Bar Labels
 % Complete
 Project Baseline
 ◆ ◆ Milestone

Closure Operations

Attachment 5

TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 699	TPA CHANGE NOTICE FORM	Date: 10/13/2015
Document Number, Title, and Revision: DOE/RL-2000-41, <i>Interim Action Waste Management Plan for the 100-NR-2 Operable Unit</i> , Rev. 1		Date Document Last Issued: August 2000
Originator: Art Lee		Phone: 372-1763

Description of Change:

Appendix A of the *Interim Action Waste Management Plan for the 100-NR-2 Operable Unit* is being updated to add seven (7) new aquifer tubes to the 100-NR-2 Well List. This change constitutes request for concurrence from the Washington State Department of Ecology for such addition.

M.W. Cline and N.M. Menard agree that the proposed change
DOE **Lead Regulatory Agency**
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*.

Appendix A of the *Interim Action Waste Management Plan for the 100-NR-2 Operable Unit* (DOE/RL-2000-41, Rev. 1) is updated to:

1. Include installation of up to a total of seven (7) new aquifer tubes to replace failed aquifer tubes used for monitoring performance of the apatite permeable reactive barrier.
2. Delete three aquifer tubes listed in Appendix A that were never installed and installation was cancelled in 2008. Locations for the three aquifer tubes were not identified.

Note: Added aquifer tubes are shown with double underline. Deleted aquifer tubes are shown with ~~strikethrough~~. Original affected page is page A-1.

Justification and Impacts of Change:

Aquifer tube C9586 will be installed as a replacement for aquifer tube C6135(C6135)
 Aquifer tube C9587 will be installed as a replacement for aquifer tube C6136(C6136)
 Aquifer tube C9588 will be installed as a replacement for aquifer tube C5255(N116mArray-1A)
 Aquifer tube C9589 will be installed as a replacement for aquifer tube C5262(N116mArray-8.5A)
 Aquifer tube C9590 will be installed as a replacement for aquifer tube C5266(N116mArray-12A)
 Aquifer tube C9591 will be installed as a replacement for aquifer tube C5267(N116mArray-13A)
 Aquifer tube C9592 will be installed as a replacement for aquifer tube C5268(N116mArray-14A)

If an existing aquifer tube can be found and is working, the replacement aquifer tube will not be installed.

This incorporates changes for TPA-CN-200, TPA-CN-231, TPA-CN-244, TPA-CN-256, TPA-CN-301, TPA-CN-302, TPA-CN-312, TPA-CN-417, and TPA-CN-636.

Approvals:

 DOE Project Manager	<u>10/28/15</u> Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
 Ecology Project Manager	<u>10/28/15</u> Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved

Appendix A*

100-NR-2 AQUIFER TUBE LIST

Well ID	Tube Name	Well ID	Tube Name	Well ID	Tube Name
C4585	NS-2A-23cm	C5264	N116mArray-10A	C6329	C6329
C4586	NS-2A-87cm	C5265	N116mArray-11A	C6330	C6330
C4587	NS-2A-168cm	C5266	N116mArray-12A	C6331	C6331
C4588	NS-3A-10cm	C5267	N116mArray-13A	C6332	C6332
C4589	NS-3A-176cm	C5268	N116mArray-14A	C6333	C6333
C4590	NS-3A-87cm	C5269	APT-1	C6334	C6334
C4640	NS-4A-17cm	C5270	APT-2	C6335	C6335
C4641	NS-4A-138cm	C5271	APT-3	C6336	C6336
C4892	NS-3B-40cm	C5386	APT-5	C6337	C6337
C4893	NS-3B-52cm	C5512	N116mArray-15A	C6457	ATP-SS
C4894	NS-4B-31cm	C5513	N116mArray-16A	C6472	NOA-DS25-223cm
C5245	NVPI-1	C5514	N116mArray-0A	C6473	NOA-DS15-80cm
C5246	NVPI-2	C6131	C6131	C6474	NOA-DS15-160cm
C5247	NVPI-3	C6132	C6132	C6475	N116mArray-0A50
C5248	NVPI-4	C6133	C6133	C6476	N116mArray-0A250
C5249	NVPI-5	C6134	C6134	C7881	C7881
C5250	NVP2-116.3	C6135	C6135	C7882	C7882
C5251	NVP2-116.0	C6136	C6136	C7934	C7934
C5252	NVP2-115.7	C6317	C6317	C7935	C7935
C5253	NVP2-115.4	C6318	C6318	C7936	C7936
C5254	NVP2-115.1	C6319	C6319	C7937	C7937
C5255	N116mArray-1A	C6320	C6320	C7938	C7938
C5256	N116mArray-2A	C6321	C6321	C7939	C7939
C5257	N116mArray-3A	C6322	C6322	C9586	C9586
C5258	N116mArray-4A	C6323	C6323	C9587	C9587
C5259	N116mArray-6A	C6324	C6324	C9588	C9588
C5260	N116mArray-7A	C6325	C6325	C9589	C9589
C5261	N116mArray-8A	C6326	C6326	C9590	C9590
C5262	N116mArray-8.5A	C6327	C6327	C9591	C9591
C5263	N116mArray-9A	C6328	C6328	C9592	C9592

* This revision to the 100-NR-2 WMP was approved under TPA-CN-699.

Attachment 6

300 Area Closure Project Status
November 5, 2015

- VTC Meeting –

324 Building

- Continue S&M (min-safe operations) through FY 16.
- Replacement of Zone 1 HEPA filters pending.
- Revising abated and unabated TEDE calculations.

300-288:2

- Remediation of Phase I progressing well, currently estimated to complete in January of 16.
- Offsite dose calculation for low level contamination complete.
- Draft Work Instruction for waste site 288:2 is complete and being submitted today for DOE and EPA review.

Site Completion

- Demobilization ongoing.

WSRFs/CVPs

- 300-277 pending
- 300-288:2 pending

300 Area Removal Action Work Plan

- Under revision with EPA for review.
- Incorporates 9 TPA-CNs, updated facility status, new retained facilities section.

Attachment 7

TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 683	TPA CHANGE NOTICE FORM	Date: 10/27/2015
Document Number, Title, and Revision: DOE/RL-2000-56, Waste Management Plan for 300-FF-5 Operable Unit, Revision 2		Date Document Last Issued: September 2015
Originator: Kelly Whitley		Phone: 373-4929

Description of Change:
Appendix A is updated to include 3 new boreholes in the 300-FF-5 Operable Unit.

M. W. Cline and B. W. Simes agree that the proposed change
DOE **Lead Regulatory Agency**
 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*.

Three new boreholes are added to the Waste Management Plan for the 300-FF-5 Operable Unit, DOE/RL-2000-56, Revision 2. The boreholes will be installed as characterization boreholes to determine the post-treatment uranium leaching characteristics in the soil from the vadose zone and the periodically rewetted zone.

Additionally, two well names are being changed on page A-7 to correct well names.

Borehole additions are indicated by double underlined text in the attached, revised Appendix A. Deletions are shown by ~~strikeout~~.

Note: Include affected page number(s) A-7 and A-8

Justification and Impacts of Change:

Borehole C9580 will be drilled as a characterization borehole offsetting well 399-1-80.
 Borehole C9581 will be drilled as a characterization borehole offsetting well 399-1-76.
 Borehole C9582 will be drilled as a characterization borehole offsetting well 399-1-67.

These three post-injection boreholes will not be assigned well names as they are not to be constructed as wells.

Approvals:

DOE Project Manager	10/27/2015 Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
EPA Project Manager N/A	11/4/2015 Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
Ecology Project Manager	Date	<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved

Table A-1. 300-FF-5 OU Well List		
Hanford Well Name	Hanford Well ID Number	Site Type
399-1-52	C7129	Well
399-1-53	C7130	Well
399-1-54	C7653	Well
399-1-55	C7654	Well
399-1-56	C7655	Well
399-1-57	C7656	Well
399-1-58	C7657	Well
399-6-3	C7658	Well
399-1-59	C7659	Well
399-2-32	C7660	Well
399-4-15	C7662	Well
399-3-33	C7663	Well
399-1-60	C7867	Well
399-2-33	C7868	Well
399-3-37	C7869	Well
399-3-34	C7870	Well
399-3-35	C7874	Well
399-2-34	C7875	Well
399-2-37	C7876	Well
399-1-61	C8026	Well
399-1-62	C8027	Well
399-1-63	C8028	Well
399-1-64	C8029	Well
399-3-38	C8030	Well
399-6-5	C8245	Well
399-1-69	C8930	Well
399-1-70	C8931	Well
399-1-71	C8932	Well
399-1-72	C8934	Well
399-1-73	C8935	Well
399-1-657	C8936	Well
399-1-74	C8937	Well
399-1-668	C8938	Well

Table A-1. 300-FF-5 OU Well List		
Hanford Well Name	Hanford Well ID Number	Site Type
399-1-75	C8939	Well
399-1-76	C8940	Well
399-1-77	C8941	Well
399-1-78	C8942	Well
399-1-65	C9408	Well
399-1-66	C9409	Well
399-1-79	C9450	Well
399-1-80	C9451	Well
399-1-81	C9452	Well
399-1-82	C9453	Well
399-1-83	C9454	Well
399-1-84	C9455	Well
399-1-85	C9456	Well
399-1-86	C9457	Well
399-1-87	C9458	Well
399-1-88	C9459	Well
399-1-89	C9460	Well
399-1-90	C9461	Well
399-1-91	C9462	Well
399-1-92	C9463	Well
399-1-93	C9464	Well
399-1-94	C9465	Well
399-1-95	C9466	Well
399-1-96	C9467	Well
399-1-97	C9468	Well
<u>Not Applicable</u>	<u>C9580</u>	<u>Borehole</u>
<u>Not Applicable</u>	<u>C9581</u>	<u>Borehole</u>
<u>Not Applicable</u>	<u>C9582</u>	<u>Borehole</u>
C6341	C6341	Aquifer tube
AT-3-1-D(1)	C4345	Aquifer tube
AT-3-1-M	C4346	Aquifer tube
AT-3-1-S	C4347	Aquifer tube
AT-3-2-M	C4349	Aquifer tube

Attachment 8



BRIDGE TO THE FUTURE

ISS REACTOR ASSESSMENT

November 12, 2015





Background

In 2013, assessments for three reactors were moved to 2015 for efficiency (TCN 571, 572 and 573).

5 Reactor assessments were completed by MSA in FY15

October 2014 (105-F) and April 2015 (105-H, D, C, and N) (NOTE: 105-DR was completed in 2013 by WCH)

All work complete on time with no safety incidents.

S&M plans call for 5-yr inspection with potential to change frequency based on conditions





MSA Assessment Process

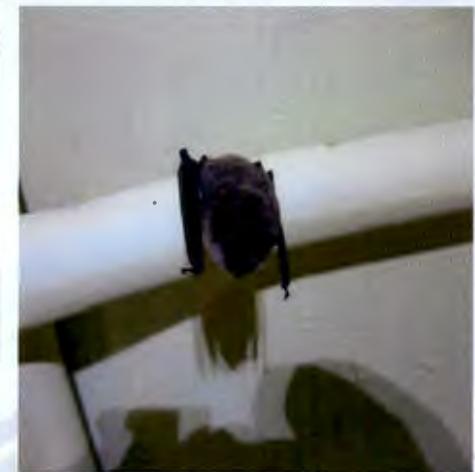
Planning
Mobilize
Open Reactor
Collect Air Samples
Safety Inspection (IH, IS, Rad Con and Bio)

Instrumentation Assessment
Radiological Survey
Structural Survey

Visits

Close Door

Demobilize





SSE Instrumentation Assessment



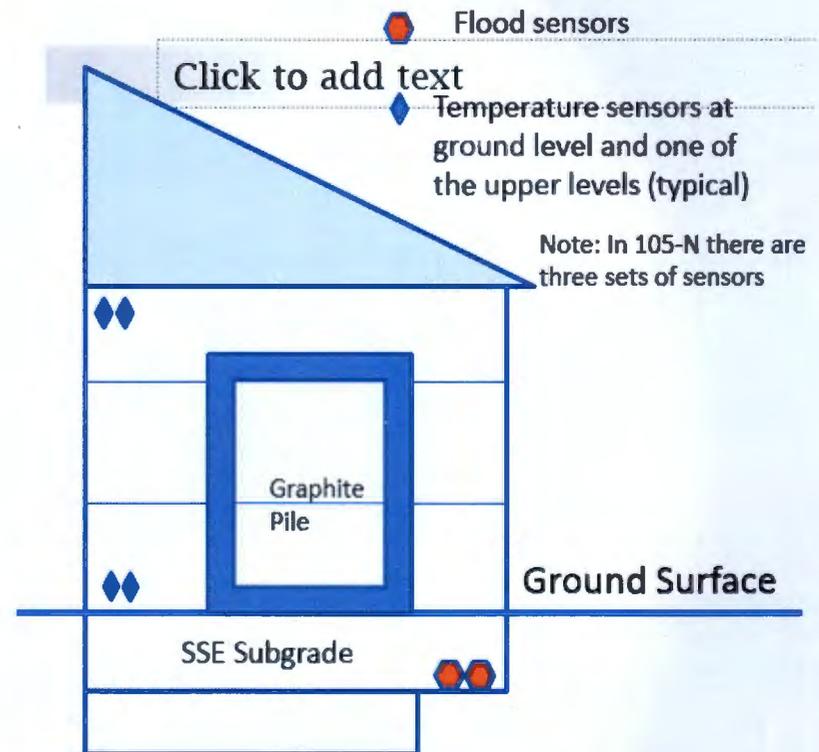
SSE Remote Monitoring

Monthly Monitoring

- **Internal Temperatures**
Two sensors in each SSE, one lower and one higher (the N Reactor has a third sensor location)
- **Flooding Sensors**
Measures the presence of water in the SSE sub grade or basement

Per S&M Plans

- DOE/RL-98-44, S&M Plan for the 105-C Reactor SSE
- DOE/RL-2002-28, S&M Plan for the 105-DR Reactor SSE
- DOE/RL-2004-59, S&M Plan for the 105-D Reactor SSE
- DOE/RL-2003-45, S&M Plan for the 105-F Reactor SSE
- DOE/RL-2005-67, S&M Plan for the 105-H Reactor SSE
- DOE/RL-2011-106, S&M Plan for the 105-N/109-N Reactor SSE



General Layout: Not to scale





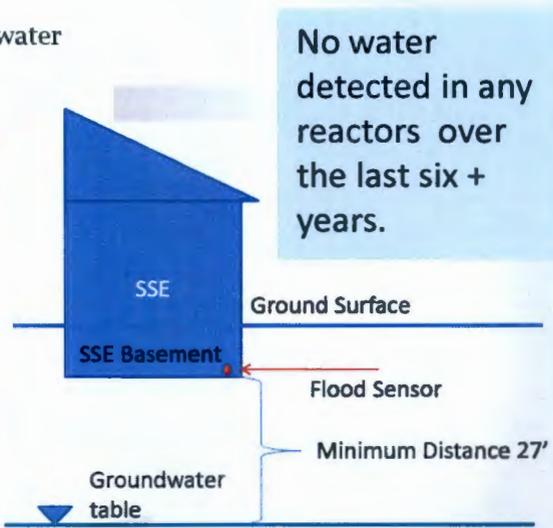
Instrumentation - Results

All equipment operating within parameters. Monitored monthly via cellular technology and automated computer access

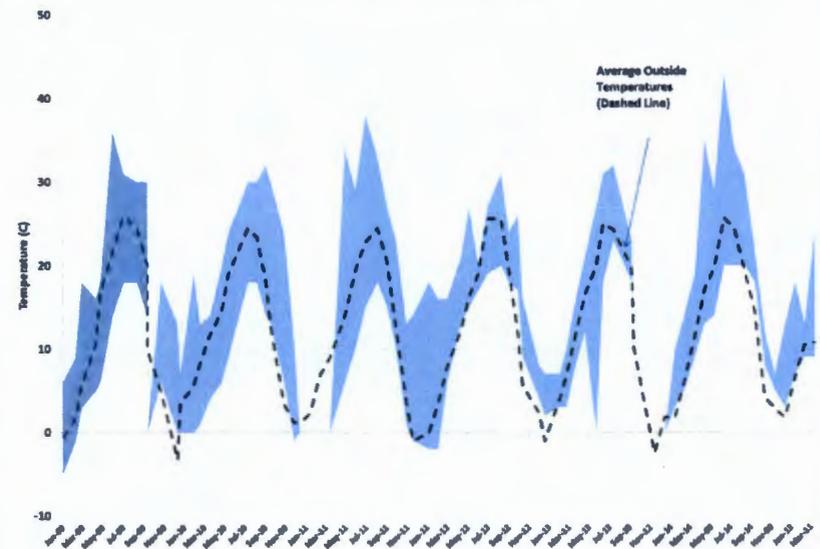


Distance to Groundwater

SSE	Distance Between Groundwater and Flood Sensor (feet)
105C	78
105D	70
105DR	74
105F	27
105H	31
105N	51



Temperature Readings Monthly Ranges



Note: Value reported for D-Reactor Location 2 in April, 2010 is 19°C and assumed to be air rather than water.

Sources: SSE and groundwater elevations – HGIS. Depth of basements – DOE-RL S&M plans (C, D, DR, H (estimated), F) and correspondence from WCH (N).

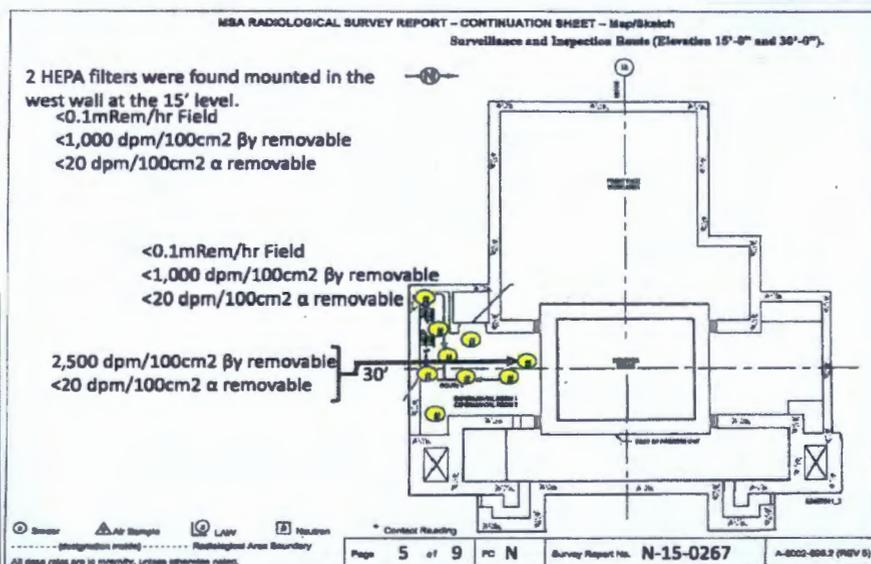




Radiological Survey - Results

All radiological conditions were within applicable limits for posted CAs
No unusual Rad conditions found

- Direct readings
- Smears
- Air samples
- Radiologic work permits
- Postings





Structural Survey - Results

The new steel and siding were found to be in very good condition, and the concrete and flashings to be in fair and stable condition with no significant defects.

Some seams and openings require coverings.





Housekeeping - Results

Housekeeping



Bat Guano

Oil Stains

Postings

WCH Waste Removal (105-H and D)

J Box cover needed in 105-C

Weld bolts on access plate at 105-H

Some Subsidence at 105-D

Soil grading around doors





Next Steps

MSA is currently working with DOE-RL to develop consolidated repair list and recommendations for FY16 actions.

