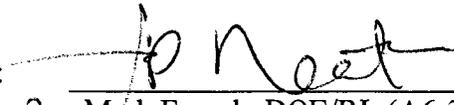
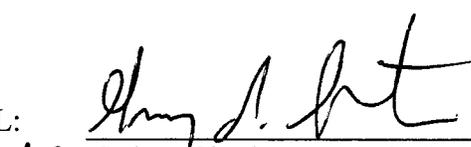


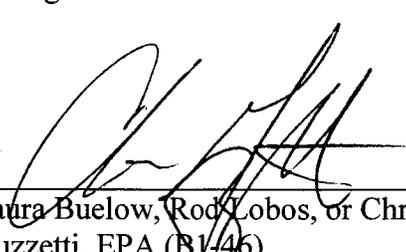
100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MEETING MINUTES

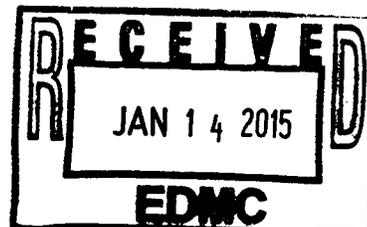
December 11, 2014

APPROVAL: *for*  Date 1/8/15
Mark French, DOE/RL (A6-38)
River Corridor Project Manager

APPROVAL: *for*  Date 1/8/15
Briant Charboneau, DOE/RL (A6-33)
Groundwater Project Manager

APPROVAL:  Date 1/8/15
Nina Menard, Ecology (H0-57)
Environmental Restoration Project
Manager

APPROVAL:  Date 1/8/15
Laura Buelow, Rod Lobos, or Christopher
Guzzetti, EPA (B1-46)
100 Area Project Manager



Please distribute to the following:

100/300 AREA UNIT MANAGER MEETING ATTENDANCE AND DISTRIBUTION

NAME	E-MAIL ADDRESS	MSIN	COMP
Childers, Heather	Original +1 copy	H6-08	ADREC
Charboneau, Briant L	Briant_L_Charboneau@ri.gov	A6-33	DOE
French, Mark	Mark_S_French@ri.gov	A6-38	DOE
Menard, Nina	NMEN461@ECY.WA.GOV	H0-57	ECO
Guzzetti, Chris	GUZZETTI.CHRISTOPHER@EPA.GOV	B1-46	EPA
Hadley, Karl A	karl.hadley@wch-rcc.com	H4-21	WCH

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

December 11, 2014

ADMINISTRATIVE

- **Next Unit Manager Meeting (UMM)** – The next meeting will be held January 8, 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.
- **Approval of Minutes** – The November 13, 2014, 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 B).
- **Agenda** – Attachment C is the Executive Session meeting agenda. Attachment D is the Regular Session meeting agenda.

EXECUTIVE SESSION (Tri-Parties Only)

An Executive Session was held by RL, EPA, and Ecology prior to the December 11, 2014, UMM. The following topics were discussed:

- Ecology (Nina Menard) noted that documents are either not being transmitted or are being transmitted as a new revision when Ecology has not seen the document before it is transmitted.
- RL (John Neath) proposed submittal of Waste Site Reclassification forms to “reject” the “Reactor Core” building subsites (118-D-6:1, 118-DR-2:1, 118-H-6:1, 118-F-8:2, and 118-C-3:1) because they are buildings and not waste sites (TPA-MP-14 Revision 2 excludes buildings/facilities that do not contain a TSD unit).

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 and also the Annual Evaluation of the Institutional Controls for the 100 K Basins Interim Remedial Action. 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 100-B/C, 100-D, 100-H, 100-N, 100-IU-2/6, and 618-10. Attachment 4 provides the Field Remediation schedule for 100-B, 100-D, 100-H, and 100-IU-2/6. No issues were identified and no action items were documented.

Agreement 1: Attachment 5 provides EPA's approval to set up a container storage area at 100-B/C to manage sample waste and potential spills and/or leaks from equipment at 100-B-35.

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 100-B/C, 100-D, 100-H, 100-N, 100-IU-2/6, and 618-10. No issues were identified and no action items were documented.

Agreement 1: Attachment 6 provides Ecology's concurrence to set up a container storage area at 100-N to manage spill cleanup material personal protective clothing from confirmatory and verification sampling, and potentially lead or other anomalous material encountered during remediation of the last remaining waste sites.

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 100-B/C, 100-D, 100-H, 100-N, 100-IU-2/6, and 618-10. Attachment 4 provides the Field Remediation schedule for 100-B, 100-D, 100-H, and 100-IU-2/6. Attachment 7 provides the backfill schedule for 100-D, 100-H, and 100-IU-2/6. No issues were identified and no action items were documented.

Agreement 1: Attachment 8 provides EPA's approval to send a drum of mercury switches from various septic holding tanks to Veolia Services in Arizona for further transfer to Veolia ES Technical Solutions, LLC in Port Washington, WI, Services for recycle.

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 100-B/C, 100-D, 100-H, 100-N, 100-IU-2/6, and 618-10. Attachment 4 provides the Field Remediation schedule for 100-B, 100-D, 100-H, and 100-IU-2/6. Attachment 7 provides the backfill schedule for 100-D, 100-H, and 100-IU-2/6. No issues were identified and no action items were documented.

Agreement 1: Attachment 9 provides EPA's approval to crush any additional tear gas vials encountered at 600-358 and load them out for disposal at ERDF and to break three other suspect liquid bottles at the site in a tote containing absorbent material for shipping to an offsite laboratory for analysis.

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

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for WCH Closure Operations activities. No issues were identified and no action items were documented.

Agreement 1: Attachment 10 provides EPA's approval to send a small amount of spill cleanup material (5 gallon pail containing soil/gasoline) from 618-10 to Burlington Environmental in Kent, WA, for transshipment to Clean Harbors in Aragonite, Utah for final treatment.

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

Attachment 1 provides status and information for groundwater. Attachment 11 provides status of the 300 Area Closure Project activities. No issues were identified and no agreements or action items were documented.

MISSION COMPLETION PROJECT

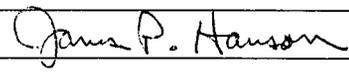
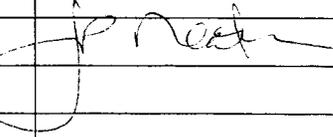
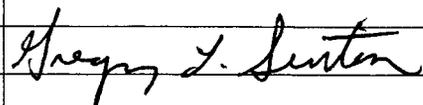
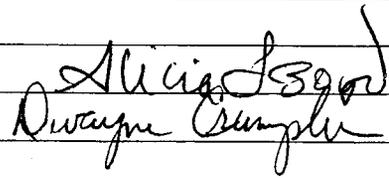
Attachment 12 provides status and information regarding the Long-Term Stewardship, the 300 Area Final Action ROD RDR/RAWP, and a Document Review Look-Ahead. No issues were identified and no agreements or action items were documented.

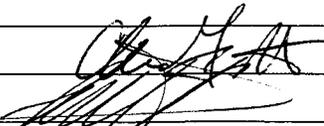
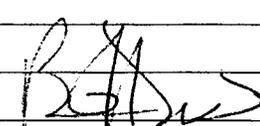
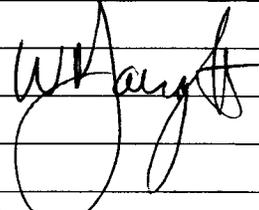
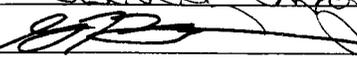
ORCHARD LANDS

John Sands was not present to provide the latest status.

Attachment A

100/300 AREA UNIT MANAGER MEETING
ATTENDANCE AND DISTRIBUTION
December 11, 2014

NAME	E-MAIL ADDRESS	MSIN	COMP	SIGNATURE
Childers, Heather	Original +1 copy	H6-08	ADREC	
Balone, Steven N	steven.balone@rl.doe.gov	A3-04	DOE	
Chance, Joanne C	joanne.chance@rl.doe.gov	A3-04	DOE	
Charboneau, Briant L	briant.charboneau@rl.doe.gov	A6-33	DOE	
Clark, Clifford E	cliff.clark@rl.doe.gov	A5-15	DOE	
Cline, Michael	michael.cline@rl.doe.gov	A6-33	DOE	
Dagan, Ellen	ellen.dagan@rl.doe.gov	A3-04	DOE	
French, Mark	mark.french@rl.doe.gov	A3-04	DOE	
Glossbrenner, Ellwood	ellwood.glossbrenner@rl.doe.gov	A3-04	DOE	
Guercia, Rudolph F	rudolph.guercia@rl.doe.gov	A3-04	DOE	
Hansen, James A	james.hansen@rl.doe.gov	A5-11	DOE	
Hanson, James P	James_P_Hanson@rl.gov	A5-11	DOE	
Louie, Catherine S	catherine.louie@rl.doe.gov	A3-04	DOE	
Morse, John G	John_G_Morse@rl.gov	A5-11	DOE	
Neath, John P	john.neath@rl.doe.gov	A3-04	DOE	
Teynor, Thomas K	thomas.teynor@rl.doe.gov	A3-04	DOE	
Post, Thomas	thomas.post@rl.doe.gov	A3-04	DOE	
Quintero, Roger	roger.quintero@rl.doe.gov	A6-38	DOE	
Sands, John P	john.sands@rl.doe.gov	A3-04	DOE	
Sinton, Gregory L	gregory.sinton@rl.doe.gov	A6-38	DOE	
Smith, Chris	douglas.smith@rl.doe.gov	A3-04	DOE	
Thompson, Mike	kenneth.thompson@rl.doe.gov	A6-38	DOE	
Zeisloft, Jamie	jamie.zeisloft@rl.doe.gov	A3-04	DOE	
Ayres, Jeffrey M	JAYR461@ECY.WA.GOV	H0-57	ECO	
Bond, Fredrick	FBON461@ECY.WA.GOV	H0-57	ECO	
Boyd, Alicia	ABOY461@ECY.WA.GOV	H0-57	ECO	
Crumpler, Dwayne	DCRU461@ECY.WA.GOV	H0-57	ECO	
Elliot, Wanda	WELL461@ECY.WA.GOV	H0-57	ECO	
Gent, Philip M	PGEN461@ECY.WA.GOV	H0-57	ECO	
Goswami, Dib	DGOS461@ECY.WA.GOV	H0-57	ECO	
Jackson-Maine, Zelma	ZJAC461@ECY.WA.GOV	H0-57	ECO	
Kapell, Arthur	AKAP461@ECY.WA.GOV	H0-57	ECO	

Menard, Nina	NMEN461@ECY.WA.GOV	H0-57	ECO	
Rochette, Elizabeth	BROC461@ECY.WA.GOV	H0-57	ECO	
Smith-Jackson, Noe'l	NSMI461@ECY.WA.GOV	H0-57	ECO	
Varljen, Robin	RVAR461@ECY.WA.GOV	H0-57	ECO	
Whalen, Cheryl	CWHA461@ECY.WA.GOV	H0-57	ECO	
Buelow, Laura	Buelow.laura.epa.gov	B1-46	EPA	
Gadbois, Larry E	Gadbois.larry@epa.gov	B1-46	EPA	
Gerhart, Rebecca		B1-46	EPA	
Guzzetti, Christopher	Guzzetti.christopher@epa.gov	B1-46	EPA	
Lobos, Rod	Lobs.rod@epa.gov	B1-46	EPA	
Simes, Benjamin	Simes.Benjamin@EPA.gov		EPA	
Barrett, Bill F	William_F_Barrett@rl.gov	E6-44	CH	
Borghese, Jane V	Jane_V_Borghese@rl.gov	E6-35	CH	
Bowles, Nathan A.	Nathan_Bowles@rl.gov	R3-60	CH	
Burke, Philip A	Philip_A_Burke@rl.gov	A0-20	CH	
Day, Roberta E	Roberta_E_Day@rl.gov	E6-35	CH	
Dittmer, Lorna M	Lorna_M_Dittmer@rl.gov	H8-45	CH	
Dixon, Brian J	Brian_J_Dixon@rl.gov	T4-03	CH	
Doornbos, Martin	Martin_H_Doorbos@rl.gov	R3-50	CH	
Eluskie, James	James_A_Eluskie@rl.gov	R3-50	CH	
Faught, William	William_R_Faught@rl.gov	R3-50	CH	
Feist, Ella	Ella_T_Feist@rl.gov		CH	
Ford, Bruce H	Bruce_H_Ford@rl.gov	H8-43	CH	
Hartman, Mary J	Mary_J_Hartman@rl.gov	B6-06	CH	
Toews, Michelle R	Michelle_R_Toews@rl.gov	R3-60	CH	
Triner, Glen C	Glen_C_Triner@rl.gov	E6-44	CH	
Fruchter, Jonathan S	john.fruchter@pnl.gov	K6-96	PNNL	
Peterson, Robert E	robert.peterson@pnl.gov	K6-75	PNNL	
Cimon, Shelley	scimon@oregontrail.net	--	Oregon	
Boothe, Gabriel	Gabriel.Boothe@doh.wa.gov	--	WDOH	
Danielson, Al	Al.danielson@doh.wa.gov	--	WDOH	
Utley, Randy	Randell.Utley@doh.wa.gov	--	WDOH	
Lilligren, Sandra	sandral@nezperce.org	--	TRIBES	
Vanni, Jean	jvynerm@hotmai.com	--	TRIBES	
Biebrich, Ernie	mailto:ejbiebri@wch-rcc.com	X3-40	WCH	
Buckmaster, Mark A	mark.buckmaster@wch-rcc.com	X9-08	WCH	

Attachment B

100/300 Area UMM
Action List
December 11, 2014

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-201	RL	G. Sinton	Groundwater	At the next UMM, CHPRC will present the schedules for future groundwater sampling and analysis plans including timeframes for regulator involvement.	Open: 10/9/14; Action: Closed 11/13/14
O	100-202	RL	G. Sinton	Groundwater	CHPRC will present a demonstration of the web-enabled 100 Area and 200 Area pump and treat report.	Open: 10/9/14; Action:

Attachment C

100/300 Area Executive Session
Tri-Parties Only
December 11, 2014
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99354
Room C209; 1:30-2:00 p.m.

1:30 - 2:00 p.m.

Executive Session (Tri-Parties Only):

- Discussion on documents that are either not being transmitted or being transmitted as a new revision and Ecology has not seen the document before it is revised and other issues (Menard)
- Waste Site Reclassification of "Reactor Core" subsites 118-D-6:1, 118-DR-2:1, 118-H-6:1, 118-F-8:2, and 118-C-3:1 (Neath)
- Next Executive Session (1/8/2015, Room C209)

Attachment D

100/300 Area Unit Manager Meeting
December 11, 2014
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99354
Room C209; 2:00 p.m.

Administrative:

- Approval and signing of previous meeting minutes (November 13, 2014)
- Update to Action Items List
- Next UMM (1/8/2015, Room C209)

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

- 100-K Area (Jim Hanson, Roger Quintero)
- 100-B/C Area (Greg Sinton, Tom Post)
- 100-N Area (Greg Sinton, Joanne Chance, Rudy Guercia)
- 100-D & 100-H Areas (Jim Hanson, Tom Post, Joanne Chance)
- 100-F & 100-IU-2/6 Areas (Greg Sinton, Tom Post, Jamie Zeisloft)
- 300 Area - 618-10/11 exclusively (Jamie Zeisloft)
- 300 Area (John Sands/Rudy Guercia)
- Mission Completion Project (Jamie Zeisloft)
- Orchard Lands (John Sands)

Special Topics/Other

Adjourn

Attachment 1

100/300 Areas Unit Managers Meeting
December 11, 2014

Remedy Selection & Implementation

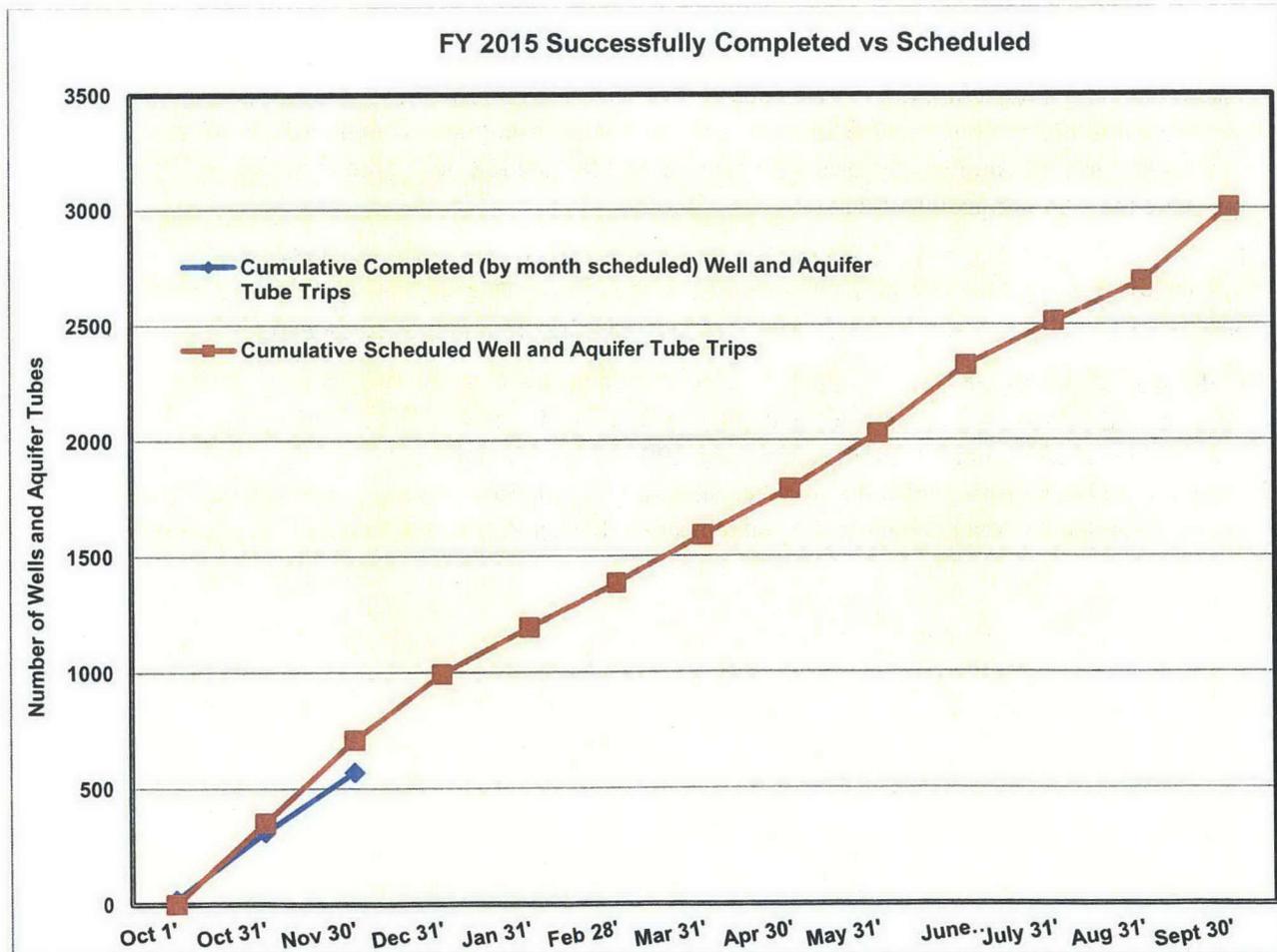
Summary Hanford Sampling Program

Hanford's overall Site 2015 fiscal year groundwater monitoring program (River Corridor and Central Plateau) has 3,006 sample trips scheduled. During November 2014 (month two of the FY) the program successfully completed 220 sampling trips of the 357 scheduled for November (see Table 2 for sampling details). This combined with 36 trips scheduled for November that were collected ahead of schedule brings the total number of samples collected in November 2014 to 256. In addition, 5 sample trips scheduled for December 2014 were completed in November (ahead of plan) making the November total number of successful trips 261.

The specific wells, aquifer tubes and spring sampled in the river corridor areas during November 2014 are listed in Table 1. Table 2 presents the samples for the river corridor only that were not successfully completed in November. Sample trips scheduled for collection in December 2014 are listed in Table 3.

WMA C Tank Farm samples for the first quarter of FY-2015 are planned to be collected in December of 2014. Wells sampled are listed in Table 4.

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



**100/300 Areas Unit Managers Meeting
December 11, 2014**

Operable Unit Specifics

100-KR-4 Groundwater Operable Unit – Ella Feist/Chuck Miller/Jason Hulstrom

- CERCLA Process Implementation:
 - RI/FS and Proposed Plan: The documents are on hold pending 100-K East Reactor waste site characterization wells (116-KE-3 and UPR-100-K-1) and modeling. Planning/design is complete and mobilization started the last week of November.
 - RD/RAWP, Monitoring Plan, and Operations and Maintenance Plan: CHPRC presented a briefing on the monitoring DQO to RL and EPA November 3, 2104. Comments are being addressed. Draft A of the Operations and Maintenance Plan and RD/RAWP will be delivered to RL before the end of December. Draft A of the Sampling and Analysis Plan is scheduled to be delivered to RL by mid-January 2015.
- Remedial Actions & System Modifications
 - Summaries of the volume of groundwater treated and Cr(VI) removed for each 100-K P&T systems (**KX**, **KR-4**, and **KW**) through November 2014 are shown in Figures K-1 through K-3. Current overall month performance is:
 - Treated 55.89 million gallons.
 - Removal 6.46 kg of hexavalent chromium.
 - The observed general decrease in the monthly mass of Cr(VI) removed over time is largely due to the overall reduction in Cr(VI) concentrations in the groundwater. Cr(VI) mass removal at 100-KW, however, increased substantially since bringing new extraction well 199-K-205 on-line. Similar increases are also seen at KR4 and KX due to the increased pumping rates to optimize treatment.
 - Drilling at new well 199-K-203, located in a down gradient position relative to 116-KE-1 Gas Condensate Crib, was completed on November 24, 2014. This well, along with newly constructed 199-K-204, will provide carbon-14 extent information in the reactor areas.
 - Drilling at new wells 199-K-207, which is located at the northern end of the 118-K-1 Burial Ground, and 199-K-208, which is located at the southern end of the 116-K-1 Trench, were started December 1st and 3rd, 2014 respectively. 199-K-207 will monitor the tritium concentrations originating from the soils beneath the 118-K-1 Burial Ground. 199-K-208 will be completed in the known Cr(VI) plume near the K East Reactor.

**100/300 Areas Unit Managers Meeting
December 11, 2014**

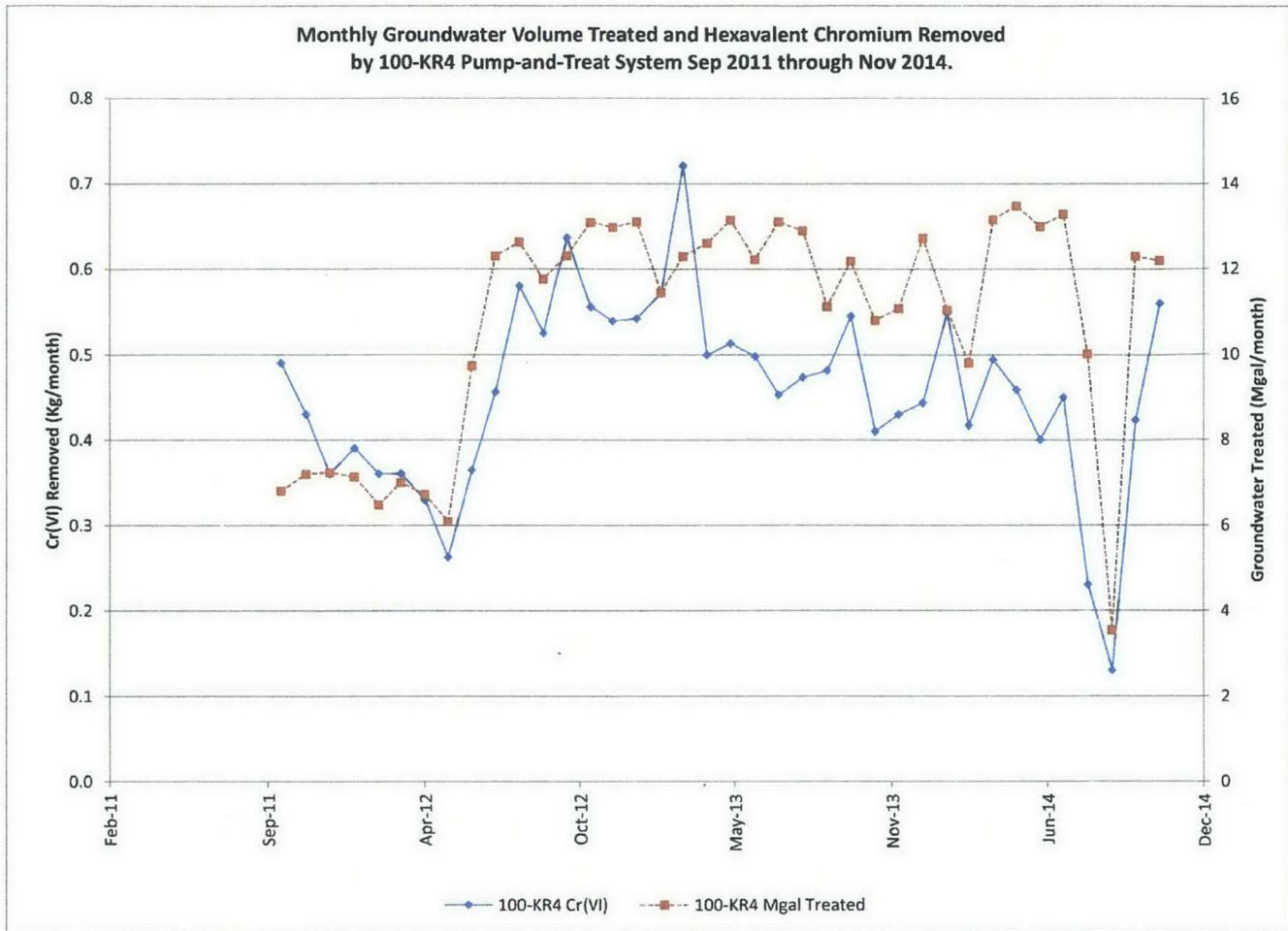


Figure K-3. Monthly Cr(VI) removed and groundwater volume treated by 100-KR4 pump-and-treat, Sep 2011 through Nov 2014.

**100/300 Areas Unit Managers Meeting
December 11, 2014**

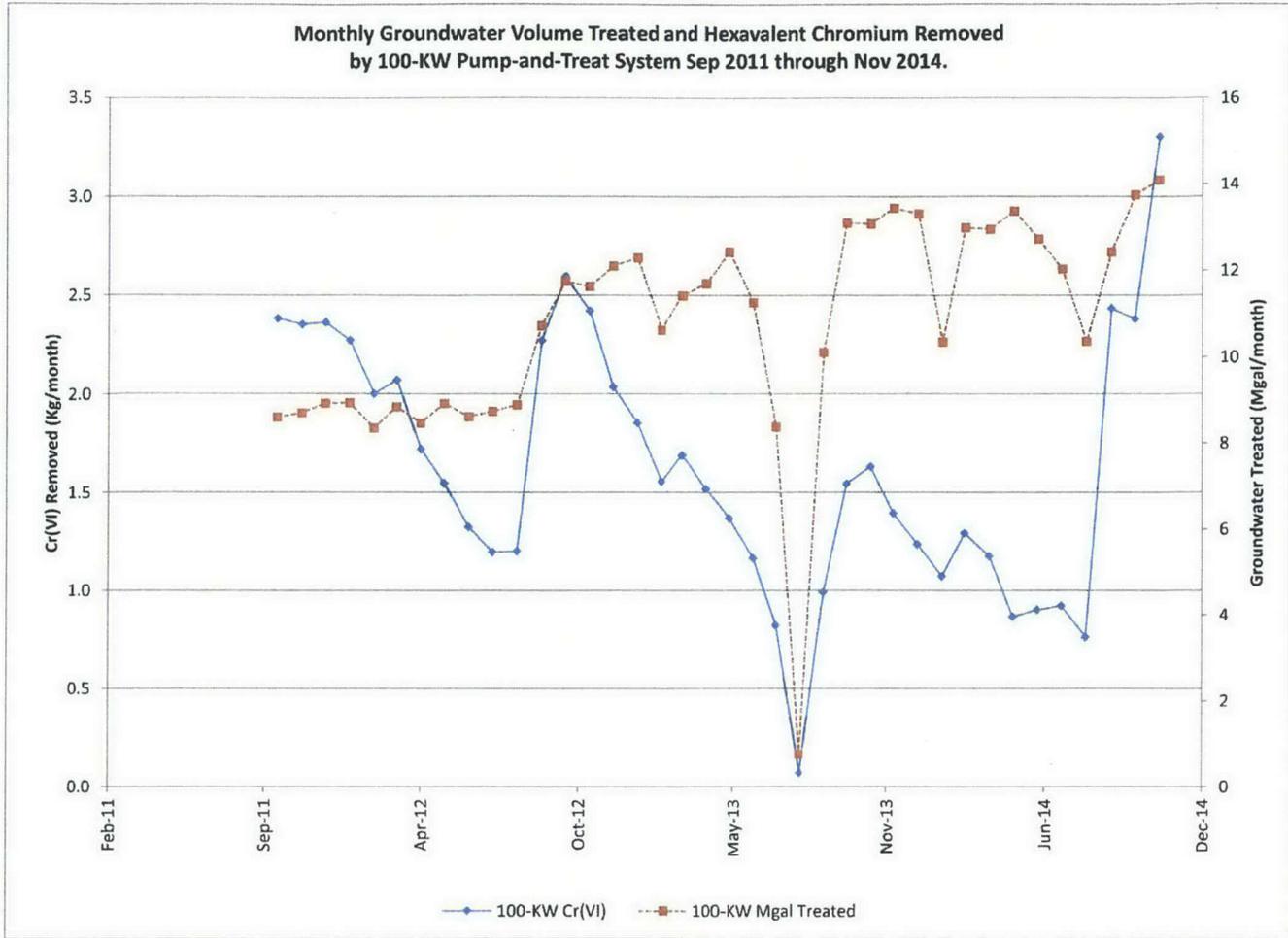


Figure K-4. Monthly Cr(VI) removed and groundwater volume treated by 100-KW pump-and-treat, Sep 2011 through Nov 2014.

**100/300 Areas Unit Managers Meeting
December 11, 2014**

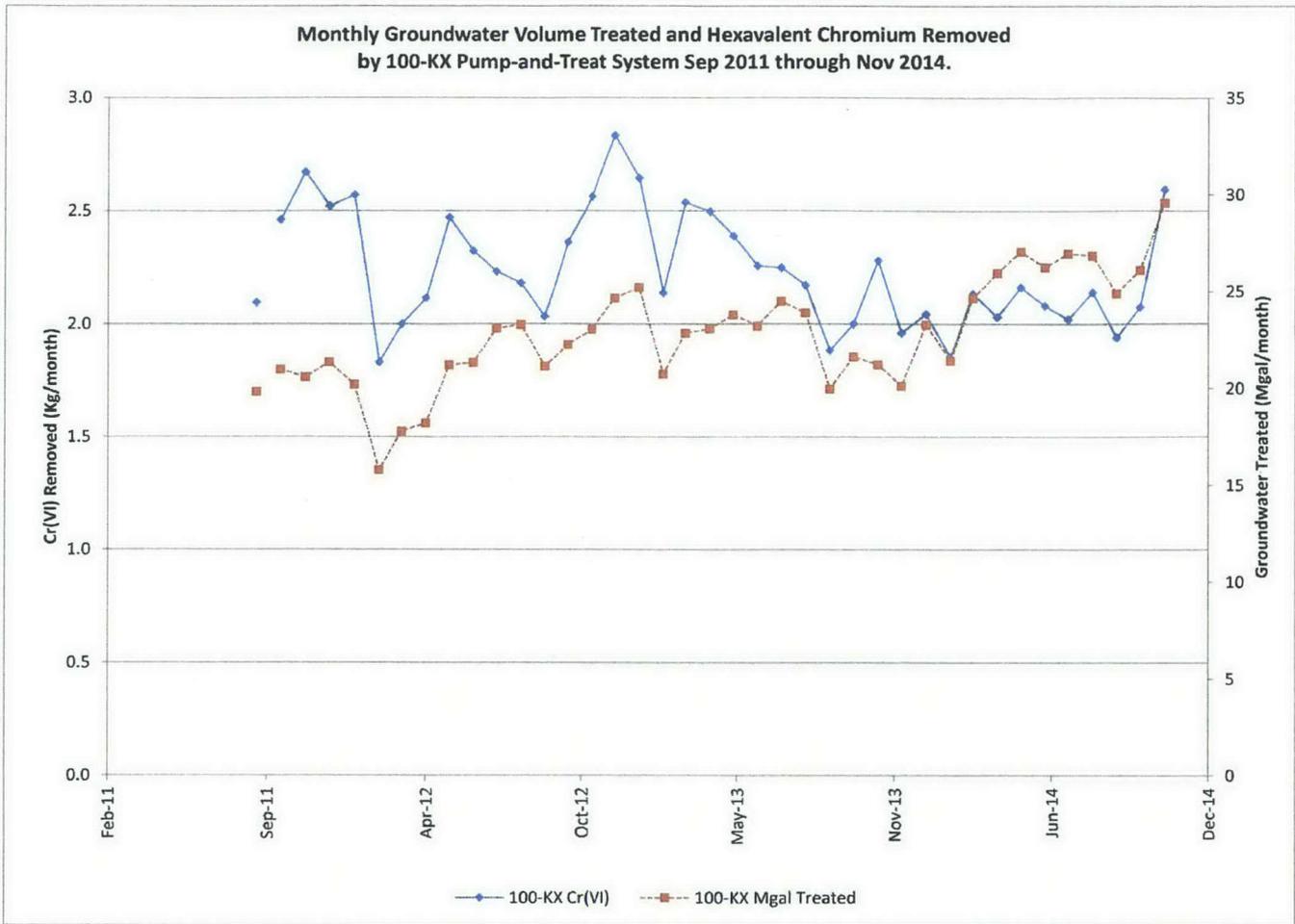


Figure K-5. Monthly Cr(VI) removed and groundwater volume treated by 100-KX pump-and-treat, Sep 2011 through Nov 2014.

**100/300 Areas Unit Managers Meeting
December 11, 2014**

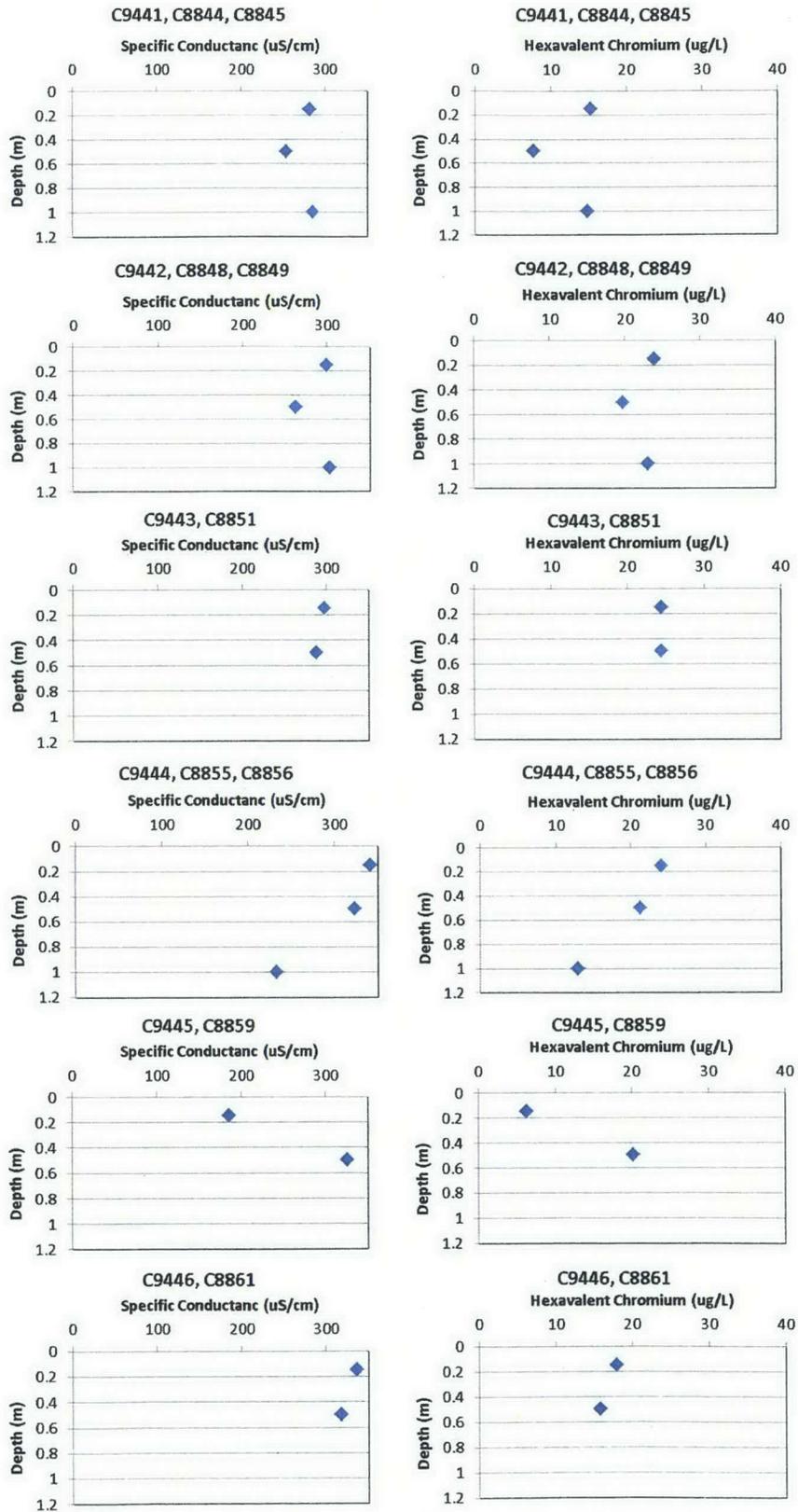
100-BC-5 Groundwater Operable Unit – Phil Burke/Mary Hartman

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:
 - Monitoring of natural attenuation parameters and the interaction of groundwater to the Columbia River.

- Monitoring & Reporting:
 - Environmental Assessment Services (EAS) replaced dataloggers in HSPs in early December.
 - The HSPs were sampled as planned in November, including the 6 new, shallow HSPs (15 cm). Figure BC-1 shows specific conductance and hexavalent chromium with depth in the six locations with more than one HSP. In most cases, the shallowest HSPs did not have lower specific conductance (i.e., greater amount of river water) than the deeper HSPs, indicating that groundwater upwelling is occurring.
 - Most of the data from the October 2014 sampling of monitoring wells have been loaded into HEIS. The data continued to show migration of the 100-C-7 plume (>48 µg/L) toward the northeast and north; it may have merged with the northern portion of the plume with concentrations >48 µg/L. The 10 µg/L contour appears to be migrating eastward.
 - Strontium-90 concentrations in October were comparable to previous results, with a maximum of 43 pCi/L in 199-B3-46.
 - Tritium concentrations were all below the drinking water standard in October and concentrations continued to decline overall.

**100/300 Areas Unit Managers Meeting
December 11, 2014**



**Figure BC-1. Preliminary Specific Conductance and Hexavalent Chromium Data from 100-BC HSPs,
November 2014**

100/300 Areas Unit Managers Meeting December 11, 2014

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

- CERCLA Process Implementation:
 - The Draft A RI/FS Report (DOE/RL-2012-15) and Proposed Plan (DOE/RL-2012-68) were transmitted to Ecology on June 24, 2013 completing TPA milestone M-015-75.
 - Ecology comments on the Draft A RI/FS Report were received on October 2, 2013. Responses and redline changes have been prepared to the majority of Ecology’s comments for Chapters 1 through 7.
 - An additional 92 waste sites are being added to the RI/FS since WCH has completed nearly all waste site remediation at 100-N. The risk screening and related analysis is underway and is expected to be complete for project team review in December.

- Remedial Actions – Bioventing/TPH

The bioventing system for remediation of petroleum contamination in the vadose zone was transitioned from WCH to CHPRC on October 1, 2014. Change out of the PVC piping to cast steel in the 100-N bioventing system was completed on November 24, 2014 and the system was turned on to leak test the new piping and then stopped to prepare for start of the respirometry testing program. Baseline gas samples from the monitoring and injection wells were collected on December 3, 2014 with the system shut off. The system was turned on and placed in operation on December 3, 2014. Figure NR-1 provides a chart showing biovent well sample results for 199-N-171 and 199-N-169. O₂ and CO₂ gas sample measurements indicate continuation of the bioremediation process at 199-N-171 while the system was shut down. Well 199-N-169 did not indicate this same trend and has not done so over the past several months. The Respirometry testing is scheduled to begin on December 15, 2014.



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

**100/300 Areas Unit Managers Meeting
December 11, 2014**

○ Monitoring & Reporting:

- Aquifer tubes C7934, C7935, and C7936 were sampled on October 28. Tritium concentrations increased at all three locations (Figure NR-2). Strontium-90 concentrations increased slightly, but were consistent with past trends (Figure NR-3). Based on the increasing tritium trends in September and October, monthly monitoring for tritium and strontium-90 will continue. Based on the September 8 results, gamma energy analyses (GEA) were requested for the September samples to verify that no other mixed fission product or activation products associated with 105-N Reactor fuel storage basin have reached groundwater at these locations. Results for the GEA were non-detect..
- The next semi-annual sampling event for 100-NR-2 groundwater wells is March 2015.
- The next groundwater sampling event for the bioventing wells is mid-December 2014.
- The next quarterly groundwater sampling event for the three groundwater monitoring wells (199-N-186, 199-N-187, and 199-N-188) is December 2014. This quarterly schedule is the subject of the most recent Change Notice for these wells.
- The next sampling event for the apatite barrier is June 2015. The next sampling event for RCRA monitoring wells is March 2015.

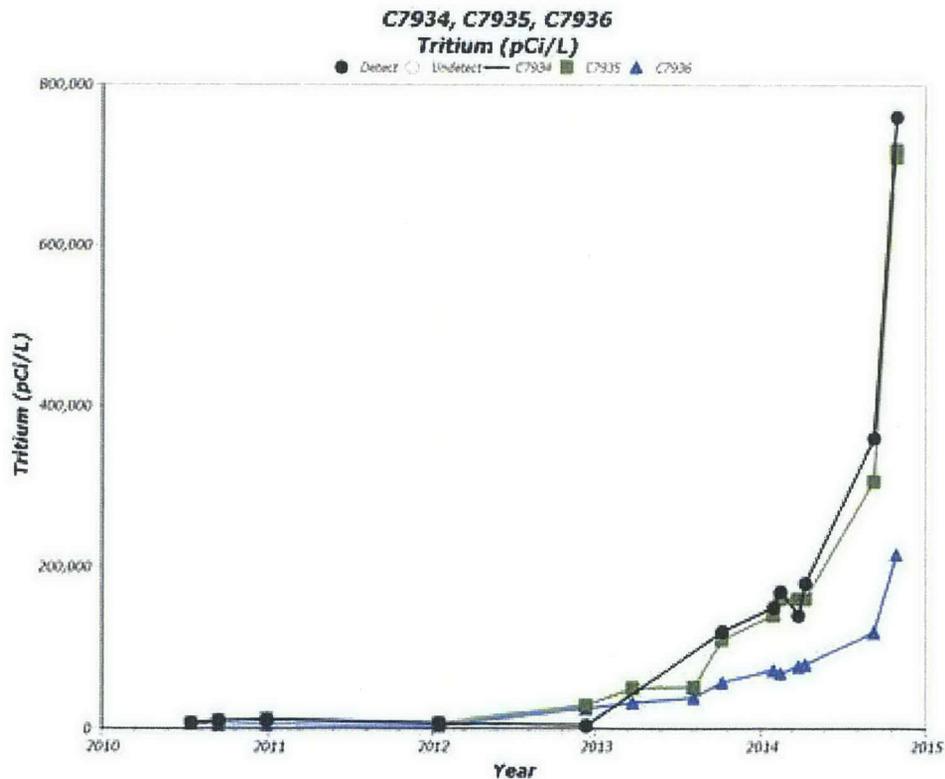


Figure NR-2. Tritium trends through October 2014 at Aquifer Tubes C7934, C7935, C7936.

100/300 Areas Unit Managers Meeting
December 11, 2014

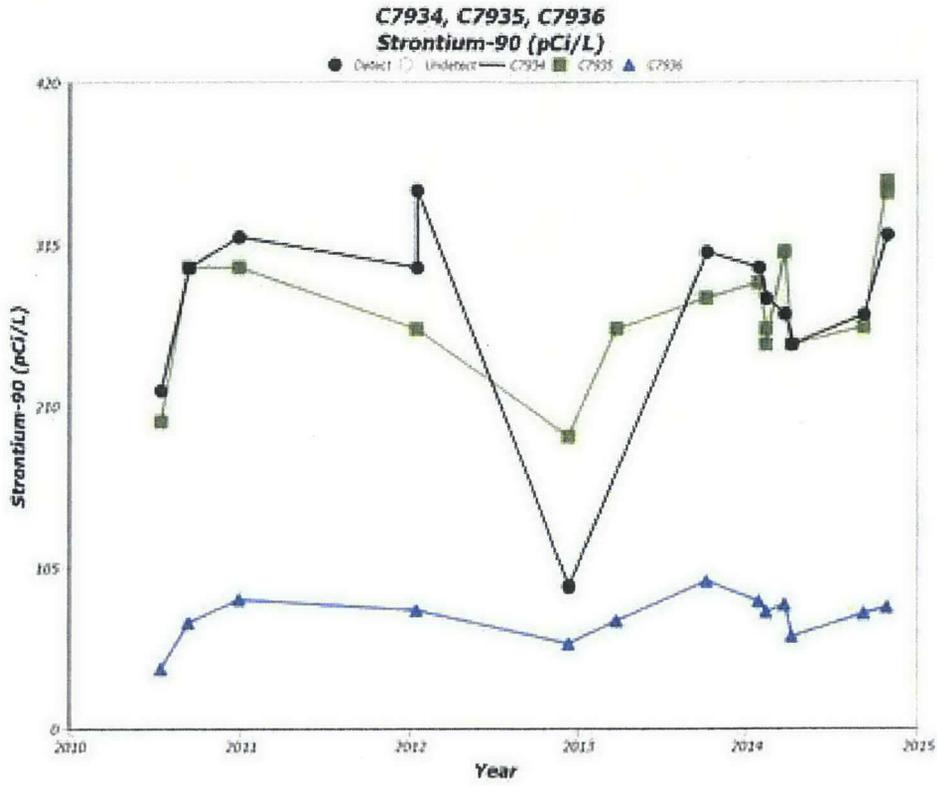


Figure NR-3. Strontium-90 trends through October 2014 at Aquifer Tubes C7934, C7935, C7936.

**100/300 Areas Unit Managers Meeting
December 11, 2014**

100-HR-3 Groundwater Operable Unit – Ella Feist/Kris Ivarson/ Erika Garcia

- CERCLA Process Implementation:
 - RI/FS: Final Rev. 0 was transmitted to Ecology on October 17, 2014
 - PP: The draft Rev. 0 was provided to Ecology on June 25, 2014 for legal review. The National Remedy Review Board waiver has not been received so the project has decided to move ahead with an NRRB review. The dates are January 26 to 30, 2015.
 - RD/RAWP, Monitoring Plan, and O&M Plan. Draft A Monitoring Plan was transmitted to RL on September 30, 2014. Informal Ecology comments on the Draft A Monitoring Plan were incorporated into the Monitoring Plan as a Draft B. The Draft B Monitoring Plan, the Draft A RD/RAWP and the Draft A O&M Plan have been submitted to Ecology for formal review on December 4, 2014.
- Remedial Actions & System Modifications:
 - November 2014 performance for **DX** and **HX** systems:
 - Treated: 49.9 million gallons
 - Removed: 11.4 kg of Cr(VI).
 - Removal of additional material from below the water table at 100-D-100 is in progress. The removal of contaminated sediment from the aquifer and the periodically rewetted zone will reduce the amount of Cr(VI) mass available for dissolution into the groundwater and is anticipated to accelerate the groundwater cleanup in that area. A full report detailing the sampling at the waste site, drilling, groundwater monitoring, leach testing and evaluation of the data is being prepared.
 - 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. Both systems exhibit general reduction in Cr(VI) mass removal over time; this is a function of progress of remediation with associated reduction in groundwater contaminant concentration. Planned system modifications, especially additional extraction at the 100-D-100 waste site are under evaluation.

**100/300 Areas Unit Managers Meeting
December 11, 2014**

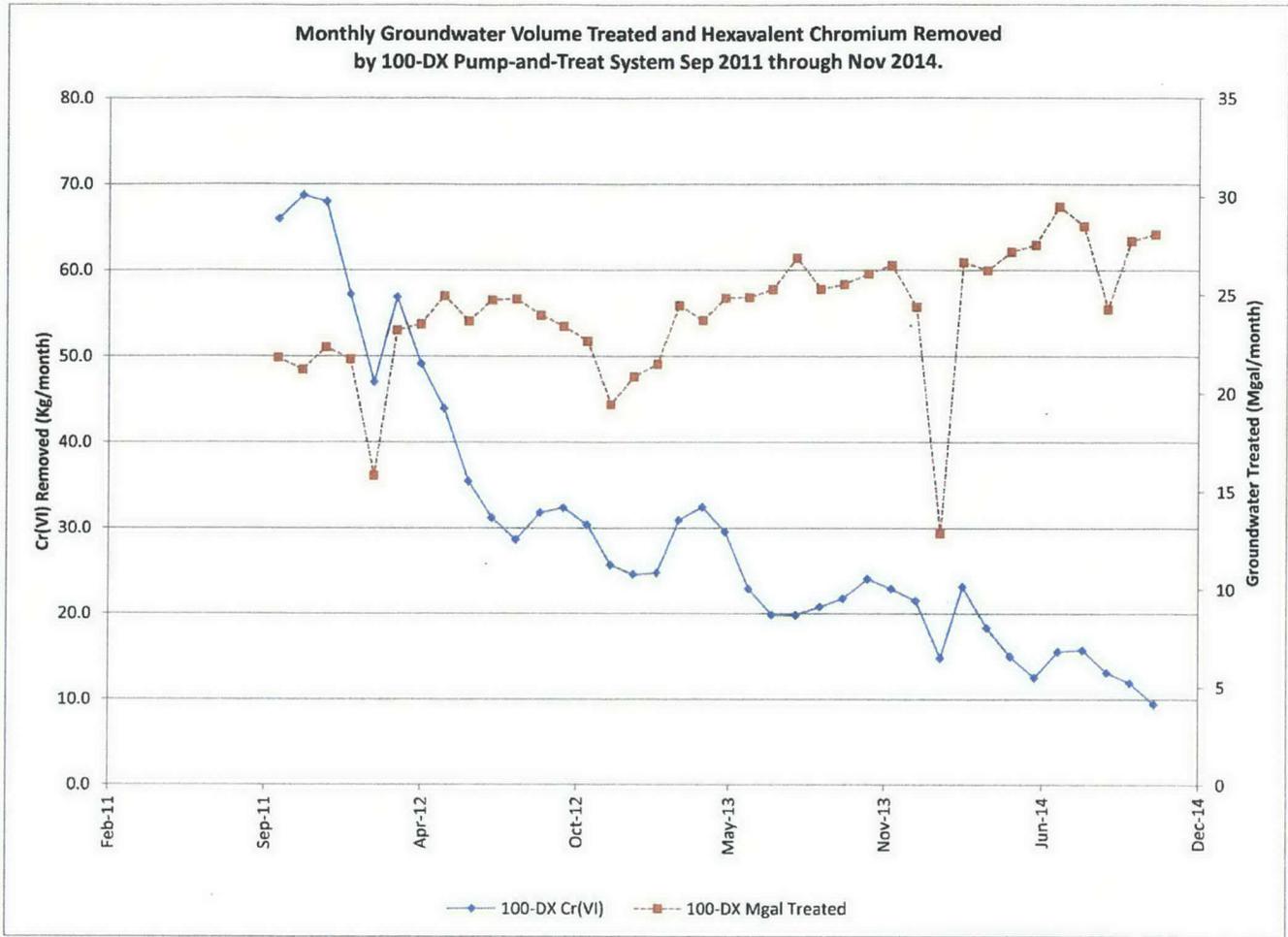


Figure H-1. Monthly Cr(VI) removed and groundwater volume treated by 100-DX pump-and-treat, Sep 2011 through Nov 2014.

**100/300 Areas Unit Managers Meeting
December 11, 2014**

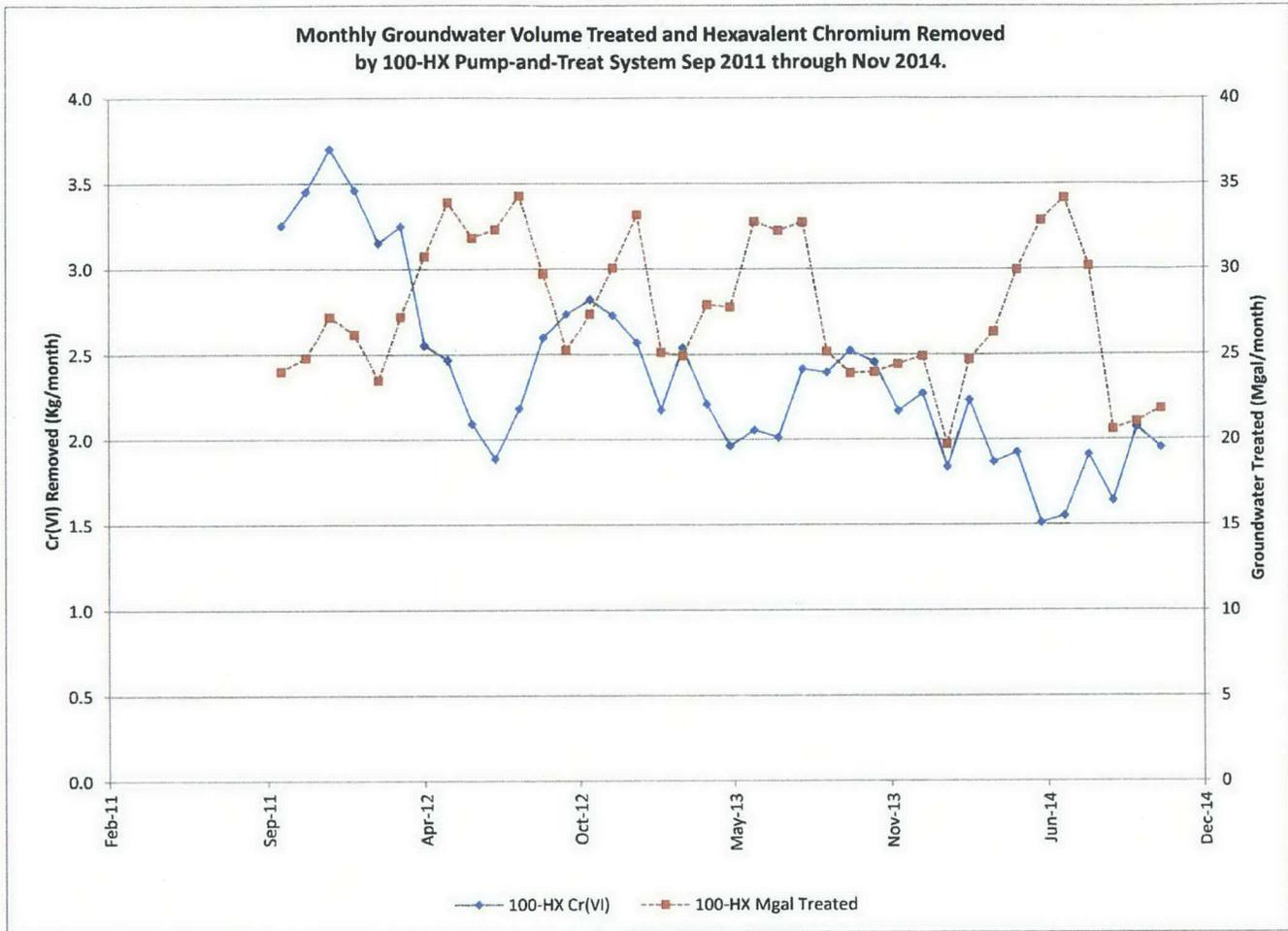


Figure H-2. Monthly Cr(VI) removed and groundwater volume treated by 100-HX pump-and-treat, Sep 2011 through Nov 2014.

100/300 Areas Unit Managers Meeting
December 11, 2014

100-FR-3 Groundwater Operable Unit – Phil Burke/Mary Hartman

- CERCLA Process Implementation:
 - ROD was signed by RL and EPA on September 30, 2014
 - RD/RA Work Plan preparation is underway.
- Monitoring & Reporting:
 - Fall 2014 groundwater sampling was completed as scheduled in October. Most of the data have been loaded into HEIS. Results were consistent with previously established trends.
 - Three wells exceeded the DWS. Two well are in eastern 100-F and one is near the reactor building (Figure F-1). Well 199-F5-55 is in the main plume in eastern 100-F and was drilled through a waste site and completed as a monitoring well. Concentrations have declined since the well was installed in 2011. The lower points in the graph were associated with higher river stage. Well 199-F5-55 is located near the reactor building and was also drilled as a vadose characterization borehole that was completed as a well. Concentrations have declined since the well was installed. Nearby wells did not detect strontium-90.

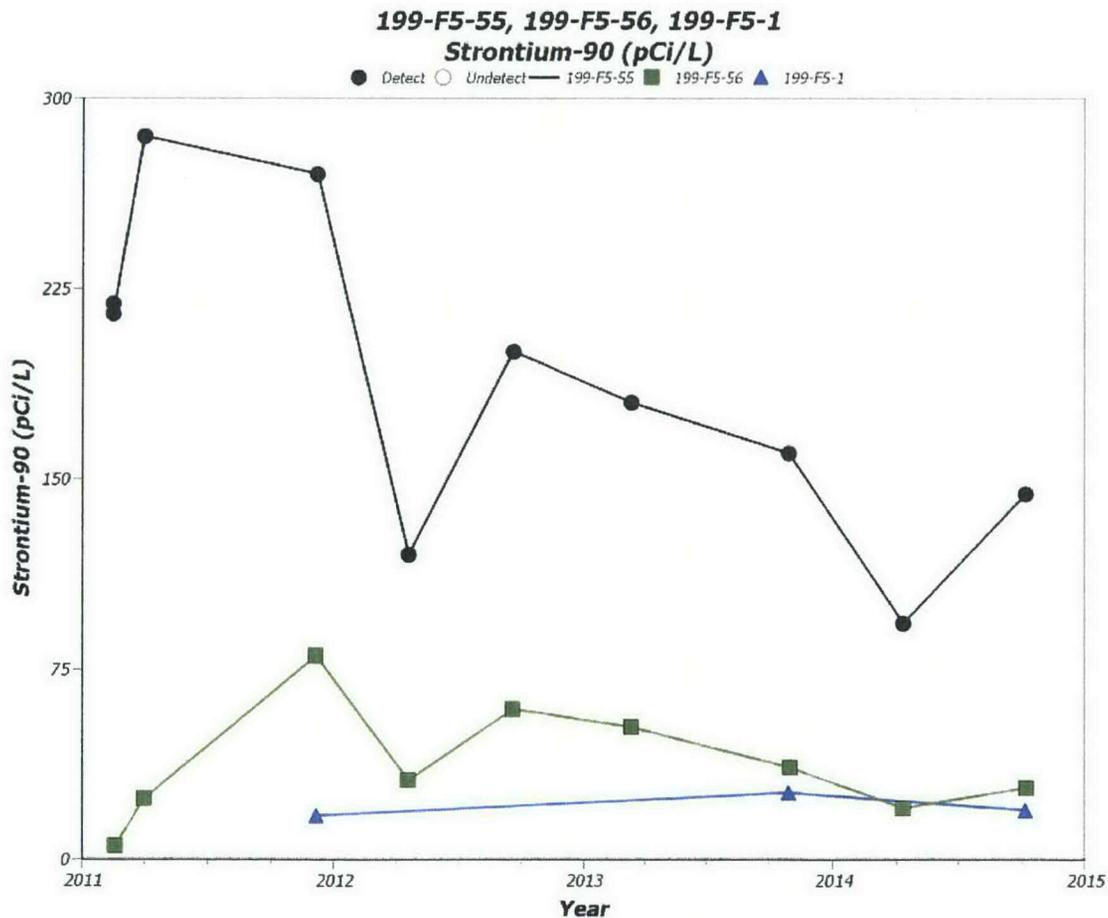


Figure F-1. Strontium-90 Concentrations in 100-F Monitoring Wells

**100/300 Areas Unit Managers Meeting
December 11, 2014**

300-FF-5 Groundwater Operable Unit – Bert Day/Virginia Rohay

- CERCLA Process Implementation:
 - Received EPA comments on the Rev. 0(a) RDR/RAWP groundwater addendum (DOE/RL-2014-13) regarding remedy completion and associated metrics; reached agreement on the tech updates mid-November. Currently finalizing the document for signature.
 - Conducted a 300 Area Remedy Implementation SAP DQO workshop with EPA on December 1, 2014; two additional workshops are planned in early/mid-January.

- Monitoring & Reporting:
 - 300 Area Industrial Complex: The next sampling event is scheduled for December 2014.
 - 340 Vault Area: The next sampling event is scheduled for December 2014.
 - 618-10 Burial Ground/316-4 Crib: The next sampling event is scheduled for December 2014.
 - 618-11 Burial Ground: Five wells were sampled, as scheduled, in October. Results for tritium were consistent with trends.
 - 300 Area Process Trenches (316-5) RCRA Monitoring: The next sampling event is scheduled for December 2014.

**100/300 Areas Unit Managers Meeting
December 11, 2014**

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	1100-EM-1	300-FF-5
		199-D5-97	48-S	199-K-148			
		199-D6-3	49-D	199-K-153			
		199-D8-71	699-94-41	199-K-154			
		699-93-48A	699-94-43	199-K-157			
		699-95-48	699-95-45	199-K-161			
		699-95-51	699-96-43	199-K-162			
		699-97-51A	699-98-46	199-K-163			
		699-98-49A	699-99-41	199-K-165			
		699-98-51	699-99-44	199-K-166			
			AT-H-1-M	199-K-168			
			AT-H-1-S	199-K-171			
			AT-H-2-D	199-K-173			
			AT-H-2-M	199-K-182			
			AT-H-2-S	199-K-184			
			AT-H-3-D	199-K-185			
			AT-H-3-S	199-K-186			
			C5644	199-K-187			
			C5673	199-K-188			
			C5674	199-K-189			
			C5676	199-K-19			
			C5677	199-K-190			
			C5678	199-K-191			
			C5679	199-K-192			
			C5680	199-K-194			
			C5682	199-K-196			
			C6291	199-K-197			
			C6293	199-K-198			
			C6296	199-K-199			
			C6297	199-K-210			
			C6299	199-K-212			
			C6300	199-K-22			
			C6301	199-K-23			
			SH-144-1	199-K-32A			

**100/300 Areas Unit Managers Meeting
December 11, 2014**

Table 2. Sample Trips Outstanding at the end of November 2014

GWIA	SAMP_SITE_TYPE	SITE_NAME	SCHEDULE_DATE	Sample Status Comment
100-BC-5	WELL	699-68-105	10/1/2014	Maintenance Required
	AQUIFER TUBE	C8845	8/1/2014	Collected 10-9-2014
	AQUIFER TUBE	C8860	5/1/2014	Unsuccessful
100-FR-3	AQUIFER TUBE	62-M	10/1/2014	Annual
	AQUIFER TUBE	64-M	10/1/2014	Annual
	AQUIFER TUBE	67-M	10/1/2014	Annual
	AQUIFER TUBE	74-D	10/1/2014	Annual
	AQUIFER TUBE	75-D	10/1/2014	Annual
	AQUIFER TUBE	76-D	10/1/2014	Annual
	AQUIFER TUBE	77-D	10/1/2014	Annual
	AQUIFER TUBE	C6302	10/1/2014	Annual
	AQUIFER TUBE	C6303	10/1/2014	Annual
	AQUIFER TUBE	C6306	10/1/2014	Annual
	AQUIFER TUBE	C6309	10/1/2014	Annual
	AQUIFER TUBE	C6315	10/1/2014	Annual
100-HR-3-D	WELL	199-D4-6	10/1/2014	Unsuccessful
	WELL	199-D4-95	10/1/2014	Quarterly
	WELL	199-D5-107	10/1/2014	Maintenance Required
	WELL	199-D5-149	11/1/2014	Quarterly
	WELL	199-D5-20	10/1/2014	Quarterly
	WELL	199-D5-41	11/1/2014	Biannual
	WELL	199-D8-72	9/1/2014	Quarterly
	AQUIFER TUBE	36-M	11/1/2014	Annual
	AQUIFER TUBE	36-S	11/1/2014	Annual
	AQUIFER TUBE	38-D	11/1/2014	Annual
	AQUIFER TUBE	38-M	11/1/2014	Annual
	WELL	699-96-52B	11/1/2014	Quarterly
	AQUIFER TUBE	AT-D-1-D	11/1/2014	Annual
	AQUIFER TUBE	AT-D-1-M	11/1/2014	Annual
	AQUIFER TUBE	AT-D-1-S	11/1/2014	Annual
	AQUIFER TUBE	AT-D-2-M	11/1/2014	Annual
	AQUIFER TUBE	AT-D-2-S	11/1/2014	Annual
	AQUIFER TUBE	AT-D-3-D	11/1/2014	Annual
	AQUIFER TUBE	AT-D-3-M	11/1/2014	Annual
	AQUIFER TUBE	AT-D-3-S	11/1/2014	Annual
	AQUIFER TUBE	AT-D-4-D	11/1/2014	Annual
	AQUIFER TUBE	AT-D-4-M	11/1/2014	Annual
	AQUIFER TUBE	AT-D-4-S	11/1/2014	Annual
	AQUIFER TUBE	AT-D-5-D	11/1/2014	Annual
	AQUIFER TUBE	AT-D-5-M	11/1/2014	Annual
	AQUIFER TUBE	C6266	11/1/2014	Biannual

**100/300 Areas Unit Managers Meeting
December 11, 2014**

GWIA	SAMP_SITE_TYPE	SITE_NAME	SCHEDULE_DATE	Sample Status Comment
	AQUIFER TUBE	Redox-4-3.0	11/1/2014	Biannual
	AQUIFER TUBE	Redox-4-6.0	11/1/2014	Biannual
	SPRING	SD-110-1	11/1/2014	Annual
	SPRING	SD-110-2	11/1/2014	Annual
100-HR-3-H	WELL	199-H1-32	11/1/2014	Quarterly
	WELL	199-H1-33	11/1/2014	Quarterly
	WELL	199-H4-4	11/1/2014	Quarterly
	AQUIFER TUBE	50-M	11/1/2014	Annual
	AQUIFER TUBE	50-S	11/1/2014	Annual
	AQUIFER TUBE	52-D	11/1/2014	Annual
	AQUIFER TUBE	52-M	11/1/2014	Annual
	AQUIFER TUBE	52-S	11/1/2014	Annual
	AQUIFER TUBE	54-D	11/1/2014	Annual
	AQUIFER TUBE	54-M	11/1/2014	Annual
	AQUIFER TUBE	54-S	11/1/2014	Annual
	WELL	699-97-41	11/1/2014	Quarterly
	AQUIFER TUBE	AT-H-1-D	11/1/2014	Annual
	AQUIFER TUBE	C5681	11/1/2014	Annual
	AQUIFER TUBE	C6290	11/1/2014	Unsuccessful
	AQUIFER TUBE	C7649	11/1/2014	Annual
AQUIFER TUBE	C7650	11/1/2014	Annual	
100-KR-4	AQUIFER TUBE	18-S	10/1/2014	Annual
	WELL	199-K-112A	11/1/2014	Annual
	WELL	199-K-132	11/1/2014	Biannual
	WELL	199-K-144	11/1/2014	Biannual
	WELL	199-K-178	11/1/2014	Biannual
	WELL	199-K-181	11/1/2014	Biannual
	WELL	199-K-201	11/1/2014	Quarterly
	WELL	199-K-205	10/1/2014	Quarterly, P&T not running
	WELL	199-K-208	11/1/2014	Quarterly
	AQUIFER TUBE	199-K-220	11/1/2014	Quarterly
	WELL	199-K-221	10/1/2014	Quarterly, Not on WAL
	WELL	199-K-222	10/1/2014	Quarterly, No on WAL
	AQUIFER TUBE	C6247	10/1/2014	Annual
	SPRING	SK-077-1	10/1/2014	Annual
100-NR-2	WELL	199-N-167	10/1/2014	Annual
	WELL	199-N-169	10/1/2014	Quarterly
	WELL	199-N-171	10/1/2014	Quarterly
	WELL	199-N-172	10/1/2014	Annual
	WELL	199-N-173	10/1/2014	Quarterly
	WELL	199-N-183	10/1/2014	Quarterly
	WELL	199-N-19	9/1/2014	Quarterly

**100/300 Areas Unit Managers Meeting
December 11, 2014**

Table 3. Sample Locations in the River Corridor Scheduled to be sampled in December 2014

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	1100-EM-1	300-FF-5
199-B4-14		199-D3-2	199-H1-1	199-K-203	199-K-150	699-S27-E9A	399-1-1
C8840		199-D4-1	199-H1-2	199-K-204	C6132	699-S28-E12	399-1-10A
C8841		199-D4-14	199-H1-25		C7881	699-S29-E16A	399-1-10B
C8842		199-D4-22	199-H1-27		C7934	699-S30-E15A	399-1-11
C8843		199-D4-23	199-H1-3		C7935	699-S31-E10A	399-1-12
C8844		199-D4-25	199-H1-34		C7936	699-S31-E10C	399-1-15
C8845		199-D4-27	199-H1-36		C7937	699-S31-E8A	399-1-16A
C8847		199-D4-31	199-H1-39		C7938	699-S36-E13A	399-1-16B
C8848		199-D4-32	199-H1-4		C7939	699-S37-E14	399-1-17A
C8849		199-D4-36	199-H1-42		N116mArray-0A	699-S41-E12	399-1-17B
C8851		199-D4-38	199-H1-43		N116mArray-10A	699-S42-E8A	399-1-18A
C8852		199-D4-4	199-H1-45		N116mArray-11A	AT-3-8-M	399-1-18B
C8853		199-D4-48	199-H1-6		N116mArray-13A	AT-3-8-S	399-1-2
C8855		199-D4-62	199-H3-2A		N116mArray-15A		399-1-21A
C8856		199-D4-7	199-H3-2C		N116mArray-1A		399-1-21B
C8859		199-D5-103	199-H4-10		N116mArray-2A		399-1-57
C8860		199-D5-104	199-H4-13		N116mArray-3A		399-1-59
C8861		199-D5-106	199-H4-45		N116mArray-4A		399-1-6
C9441		199-D5-123	199-H4-5		N116mArray-6A		399-1-7
C9442		199-D5-125	199-H4-63		N116mArray-8.5A		399-2-1
C9443		199-D5-126	199-H4-64		N116mArray-8A		399-2-2
C9444		199-D5-145	199-H4-69		N116mArray-9A		399-2-32
C9445		199-D5-146	199-H4-70		NVP1-1		399-2-5
C9446		199-D5-15	199-H4-75		NVP1-2		399-3-1
		199-D5-16	199-H4-76		NVP1-3		399-3-10
		199-D5-34	199-H4-77		NVP1-4		399-3-12
		199-D5-38	199-H4-90		NVP1-5		399-3-18
		199-D5-39	199-H4-91		NVP2-115.1		399-3-19
		199-D5-43			NVP2-115.4		399-3-2
		199-D5-97			NVP2-115.7		399-3-20
		199-D8-5			NVP2-116.0		399-3-22
		199-D8-53			NVP2-116.3		399-3-33
		199-D8-54A					399-3-34
		199-D8-54B					399-3-38
		199-D8-68					399-3-6
		199-D8-69					399-3-9
		199-D8-70					399-4-1
		199-D8-72					399-4-10
		199-D8-73					399-4-12
		199-D8-88					399-4-14

**100/300 Areas Unit Managers Meeting
December 11, 2014**

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	1100-EM-1	300-FF-5
							C6378
							C6380

Attachment 2

**100K Area Unit Managers Meeting
December 11, 2014**

RL-0012 Sludge Treatment Project

TPA Milestone **M-016-175**, *Begin Sludge Removal from 105-KW Fuel Storage Basin (9/30/14)* – Missed

- EPA disapproved DOE's request to extend TPA milestone M-016-175.
- DOE transmitted a statement of dispute to EPA and the IAMIT on December 3, 2014.
- DOE and EPA have agreed to extend resolution of the dispute at the IAMIT level to January 9, 2015.
- Procurement of ECRTS process components continues to move forward. Seven contracts have been issued and are in various stages of implementation. Procurement documents are being prepared for 13 additional contracts.
- 105-K West Basin Annex building construction work included application of epoxy in the load out bay, fabrication of exhaust ductwork, installation of metal wall framing and gypsum wall board between rooms, and installation of electrical and mechanical equipment.
- In-basin electrical work scope previously scheduled for FY 2016 is expected to begin the week of December 8, 2014.
- DOE continues to review the ECRTS Preliminary Documented Safety Analysis (PDSA) and has provided comments. Periodic meetings are being held between DOE and CHPRC to facilitate comment resolution. DOE approval of the PDSA is expected in mid-January, 2015.

TPA Milestone **M-016-173**, *K Basin Sludge Treatment and Packaging Technology Selection (3/31/15)* - At Risk

- The phase 2 treatment and packaging site evaluation report was issued in September 2012. Evaluation of options and consideration of overarching policy issues leading to preparation of a recommendation have been deferred due to other funding priorities.

TPA Milestone **M-016-176**, *Complete Sludge Removal from 105-KW Fuel Storage Basin (12/31/15)* – At Risk

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

TPA Milestone **M-016-178**, *Initiate Deactivation of 105-KW Fuel Storage Basin (12/31/15)* – At Risk

- Pre-deactivation activities to facilitate future deactivation continue. Such activities include preparation for below-water debris relocation to clear the ECRTS footprint; debris dose rate measurement and characterization; and, Integrated Water Treatment System garnet filter and Skimmer System sand filter media characterization. Debris relocation started on December 1, 2014.
- The KW Basin below-water debris and demolition rubble Sample Analysis Plan is expected to be provided to EPA for review and approval in December 2014.

RL-0041 K Facility Demolition and Soil Remediation

TPA Milestone **M-016-143**, *Complete the Interim Response Actions for 100 K Area Phase 2 (12/31/15)* – At Risk

- Response actions for phase 2 buildings are complete. Two phase 3 buildings (MO293 and MO442) were removed in November to facilitate future work on waste sites near the KE Head House. No remediation of phase 2 waste sites has been completed thus far in FY15.

TPA Milestone **M-093-28**, *Submit a Change Package for Proposed Interim Milestones for 105-KE and 105-KW Reactor Interim Safe Storage (12/31/15)* - 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 (12/31/19)* - On Schedule

Other Information and Status Updates

105-KW Roof Improvements. Further assessment of the 66 foot and 73 foot elevation roofs was performed via access from the 55 foot level walkway on November 18, 2014. It was determined that the 66 foot elevation roof covering differed from presumptions based on the aerial photos. The covering was found to be generally intact with little or no removable debris present. Inspection of the 77 foot elevation roof revealed that the roof buildup material is missing or laid back on itself. The 77 foot elevation roof was assessed structurally from the top and the bottom and found to be sound and permissible for personnel access and work activities with a concentrated load limit of 500 pounds.

Planning activities were reassessed on December 2, 2014, based on the newly discovered conditions. The Facility Modification Package (FMP) is being revised to allow removal of the damaged material and foaming of the existing leading edge. In turn, the exposed roof portions will be sealed with a Class A elastomeric, acrylic paint product. The FMP is scheduled to be completed by December 17, 2014, with repairs to follow on or about December 29, 2014.

100K Bore Holes. Field mobilization is in process with material being placed for the drill pad and access ramps. Drilling enclosure construction and drilling contract award are scheduled for December with drilling to commence in January.

Attachment 3

December 11, 2014 Unit Manager's Meeting
Closure Operations Status

100-B/C

- Commenced subcontractor remobilization for 100-B-35 plume chase
- Commenced revegetation of Pit 24 and the Container Transfer Area

100-D

- Commenced subcontractor remobilization for continued remediation at 100-D-100 and 100-D-86:3 plume chase
- Continued backfill at 100-D-30/104

100-H

- Commenced subcontractor remobilization for 100-H-28:2-5 and 100-H-59:2 plume chase

100-N

- Continued revegetation activities

618-10 Trench Remediation

- Continued excavation and sorting of trench area
- Concrete drum removal activities put on hold pending Safety Basis update
- Continued waste load out
- Continued non-concrete drum characterization & handling activities
- Continued cone penetrometer removal activities surrounding VPUs
- Mobilizing crane and vibratory hammer for over-casing installation
- Continued procurement activities for design and fabrication of suspect TRU waste retrieval system

100-IU-2/6

- Continued planning for detonating discovered UXO
- Continued remediation of 600-358
- Completed remediation of 600-20

Attachment 4

Attachment 5

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, December 03, 2014 8:57 AM
To: ^WCH Document Control
Subject: FW: REQUEST FOR CERCLA CONTAINER STORAGE AREA AT 100-B/C
Attachments: 100-B container storage area.ppt

Please provide a chron number (and include the attachment). This email documents a regulatory approval.

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

From: Buelow, Laura [<mailto:Buelow.Laura@epa.gov>]
Sent: Wednesday, December 03, 2014 8:55 AM
To: Saueressig, Daniel G
Cc: Post, Thomas C
Subject: RE: REQUEST FOR CERCLA CONTAINER STORAGE AREA AT 100-B/C

I agree to the container storage area at the location shown on the picture for the purposes and duration described below.

Laura

From: Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]
Sent: Wednesday, December 03, 2014 7:34 AM
To: Buelow, Laura
Cc: Post, Thomas C
Subject: REQUEST FOR CERCLA CONTAINER STORAGE AREA AT 100-B/C

Hi Laura, I'd like to request your approval to set up a container storage area at 100-B/C (see attached aerial photo of proposed location). As you know, we'll be going back to 100-B-35 in the next couple weeks to conduct additional remediation at the site and I'll need a container storage area to manage sample waste (PPE, plastic and plastic scoops, etc.) and potential spills and/or leaks from equipment. The container storage area could operate up to a year (not expected), with a one-time one year extension possible (extension would be approved by you). The area will operate in compliance with the substantive requirements of WAC 173-303-630.

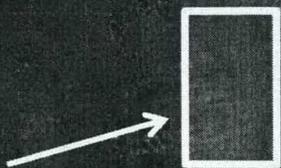
Let me know if you concur and give me a call if you have any questions.

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

<< File: 100-B container storage area.ppt >>

Proposed Container Storage
Area Location



Attachment 6

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, November 19, 2014 5:59 AM
To: ^WCH Document Control
Subject: FW: CONTAINER STORAGE AREA REQUEST FOR 100-N
Attachments: CTA.JPG

Please provide a chron number (and include the attachment). This email documents a regulatory approval.

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

From: Boyd, Alicia (ECY) [<mailto:aboy461@ecy.wa.gov>]
Sent: Tuesday, November 18, 2014 4:11 PM
To: Saueressig, Daniel G
Cc: Chance, Joanne C
Subject: RE: CONTAINER STORAGE AREA REQUEST FOR 100-N

Ecology concurs with establishing a container storage area as described in your e-mail. Thanks for the updated photo.

Alicia L. Boyd
Washington State Department of Ecology
3100 Port of Benton Blvd
Richland, WA 99352
509-372-7934

From: Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]
Sent: Tuesday, November 18, 2014 4:05 PM
To: Boyd, Alicia (ECY)
Cc: Chance, Joanne C
Subject: CONTAINER STORAGE AREA REQUEST FOR 100-N

Hi Alicia, I'd like to request your approval to set up a CERCLA container storage area at 100-N. The attached aerial photo shows the proposed location of the storage area, which will be set up in the center of the container transfer area. This area could operate for up to 1 year with a possible one time 1 year extension and I estimate no more than 10 55 gallons of waste could be stored there at any one time. Examples of types of waste that we expect to store there include spill cleanup material (hydraulic fluids and fuels combined with soil), personal protective clothing from confirmatory and verification sampling, and potentially lead or other anomalous material encountered during remediation of the last remaining waste sites (we're hoping to get authorization to remediate 100-N-83 in addition to 100-N-96 this spring). The container storage area will be

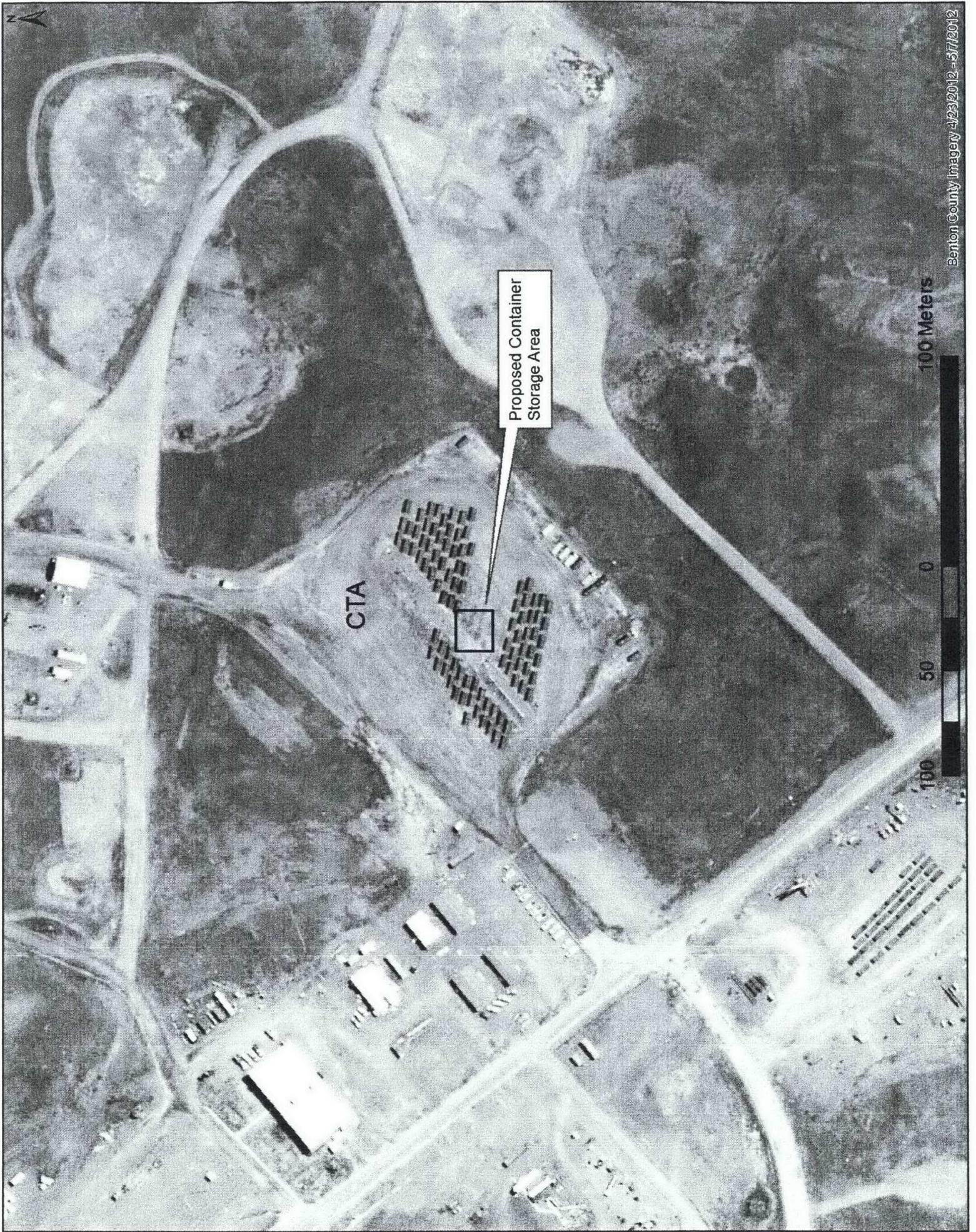
managed in compliance with the substantive Washington Administrative Code container management requirements, including WAC 173-303-630 and -646(7).

Let me know if you concur and give me a call if you have any questions.

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

<< File: CTA.JPG >>



CTA

Proposed Container
Storage Area

100 Meters

0

50

100

Attachment 7

Closure Operations Backfill



Activity ID	Activity Name	Rem. Start Dur	Finish	SVar 11/3	SVar 11/3	SVar 11/3	SVar Prior Wk	FVar Prior Wk	FY2015
Backfill Contract Working Schedule									
IU 216 Backfill									
N1.0640	IU 216 DOT Backfill	10 27-Jan-15*	11-Feb-15	-1	-1	0	0	0	D J F M A M J J A S
100-H Backfill Campaign									
DH2.0250	100-H-43 (30,000 BCM at 4,000 BCM/day)	8 12-Feb-15	26-Feb-15						
DH2.0230	100-H Remaining (145,000 BCM at 5,500 BCM/day)	28 18-Jul-15	02-Sep-15	-6	-6	0	0	0	
100-D Backfill Campaign									
DH2.0150	100-D-104/30 - volume (180,000 BCM at 4,500 BCM/day) from Local Stockpiles	26 10-Nov-14 A	26-Jan-15	7	7	0	0	0	
DH2.0240	100-D-104/30 - volume (25,000 BCM at 2,500 BCM/day) from Debris	3 18-Nov-14 A	10-Dec-14			0	0	0	
DH2.0140	100-D-104 volume (180,000 BCM at 5,500 BCM/day) from old Pit 21	35 15-Dec-14	18-Feb-15	-18	-18	0	0	0	
DH2.0200	100-D-100 volume (97,932 BCM at 5,500 BCM/day) from Pit 21	18 19-Feb-15	23-Mar-15	-6	-6	0	0	0	
DH2.0180	100-D-100 volume (163,500 BCM at 4,500 BCM/day) from Local Stockpiles	37 02-Mar-15	04-May-15	-11	-11	-18	-18	-18	
DH2.0160	100-D - volume (283,668 BCM at 4,500 BCM/day) from 100H	64 24-Mar-15	15-Jul-15	-6	-6	0	0	0	

Attachment 8

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, December 03, 2014 7:29 AM
To: ^WCH Document Control
Subject: FW: NON-CONTIGUOUS ONSITE APPROVAL

Please provide a chron number. This email documents a regulatory approval.

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

From: Einan, Dave [mailto:Einan.David@epa.gov]
Sent: Wednesday, December 03, 2014 7:27 AM
To: Saueressig, Daniel G
Subject: RE: NON-CONTIGUOUS ONSITE APPROVAL

Just heard back and Veolia ES Technical Solutions, Port Washington, WI WID989566543 is currently acceptable.

Dave Einan
509-376-3883

From: Saueressig, Daniel G [mailto:daniel.saueressig@wch-rcc.com]
Sent: Monday, December 01, 2014 1:16 PM
To: Einan, Dave
Subject: RE: NON-CONTIGUOUS ONSITE APPROVAL

Hey Dave, just seeing if you've heard back from R5 yet?

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

From: Einan, Dave [mailto:Einan.David@epa.gov]
Sent: Thursday, November 20, 2014 8:59 AM
To: Saueressig, Daniel G
Subject: RE: NON-CONTIGUOUS ONSITE APPROVAL

I got an OK on Arizona but I will have to follow up on Wisconsin. R5 is usually quicker than this.

Dave Einan
509-376-3883

From: Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]
Sent: Thursday, November 20, 2014 8:57 AM
To: Einan, Dave
Subject: RE: NON-CONTIGUOUS ONSITE APPROVAL

Dave, do you think you'll be able to get both Veolia locations evaluated and approved before the Thanksgiving holiday? We're under a little bit of a crunch to get this mercury to the CCRC and on to Veolia.

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

From: Saueressig, Daniel G
Sent: Monday, November 17, 2014 11:10 AM
To: Einan, David R
Cc: Buelow, Laura; Guzzetti, Christopher; Kapell, Arthur; Elliott, Wanda
Subject: RE: NON-CONTIGUOUS ONSITE APPROVAL

Dave, per our phone conversation a week or so ago, Veolia Services in Arizona (information provided in the email below) will receive the mercury switches but they will then send them on to Veolia ES Technical Solutions, LLC in Port Washington, WI where the switches will be retorted. Below is the information on Veolia ES Technical Solutions, LLC for your review and concurrence. Let me know if both Veolia locations are acceptable to send this material.

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

Veolia ES Technical Solutions, LLC

1275 Mineral Springs Drive

Port Washington, WI 53074

EPA ID Number: WID989566543

Company POC: Deb Folz 262-243-8900

EPA information – I believe is Region 5. I believe Will Damico is the contact for CERCLA waste approvals,

312-353-8207, damico.william@epa.gov

From: Saueressig, Daniel G
Sent: Thursday, October 02, 2014 6:46 AM
To: Einan, David R
Cc: Buelow, Laura; Guzzetti, Christopher; Kapell, Arthur; Elliott, Wanda
Subject: FW: NON-CONTIGUOUS ONSITE APPROVAL

Dave, we've got a drum of mercury switches removed from various septic holding tanks being sent to the Centralized/Consolidation Recycle Center (CCRC) in the 400 Area later this month per the agreements below.

I'd like to request your approval to send this mercury to Veolia Services for recycle, shipment date TBD. Below is the information for Veolia.

Veolia Services
5736 West Jefferson
Phoenix, AZ 85043

EPA ID# AZ0000337360
Phone number 1-800-368-9095

Let me know if Veolia is acceptable.

Thanks and give me a call if you have any questions.

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

From: Buelow, Laura [<mailto:Buelow.Laura@epa.gov>]
Sent: Thursday, September 25, 2014 1:49 PM
To: Saueressig, Daniel G; Guzzetti, Christopher
Cc: Kapell, Arthur; Glossbrenner, Ellwood T; Post, Thomas C; Chance, Joanne C
Subject: RE: NON-CONTIGUOUS ONSITE APPROVAL

Dan,

I approve of the request.

Laura

From: Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]
Sent: Wednesday, September 24, 2014 8:38 AM
To: Guzzetti, Christopher; Buelow, Laura
Cc: Kapell, Arthur; Glossbrenner, Ellwood T; Post, Thomas C; Chance, Joanne C
Subject: RE: NON-CONTIGUOUS ONSITE APPROVAL

Laura/Chris, we are finally planning on removing the mercury switches from the old holding tank that supported MO-474 and sending them to 100-D per the approval below. We have one other holding tank at 100-B/C supporting bathroom trailer MO-877. We are planning on taking this bathroom trailer out of service next week and I'd like to request your approval to also send the mercury switches from this tank to 100-D for consolidation prior to sending the mercury to the CCRC for recycle.

I'd also like to request your approval to send the drum of mercury currently stored at 100-D to the CCRC in the 400 Area for recycle.

Let me know if you concur and give me a call if you have any questions.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

From: Guzzetti, Christopher [<mailto:Guzzetti.Christopher@epa.gov>]
Sent: Monday, June 09, 2014 7:49 AM
To: Saueressig, Daniel G
Cc: Kapell, Arthur; Glossbrenner, Ellwood T; Post, Thomas C
Subject: RE: NON-CONTIGUOUS ONSITE APPROVAL

I do not have a problem with it as long as Ecology is fine okay with it.

Christopher J. Guzzetti
Project Manager
Hanford Project Office
U.S. Environmental Protection Agency
309 Bradley Boulevard, Suite 115
Richland, WA 99352

Phone: (509) 376-9529
Fax: (509) 376-2396
Email: guzzetti.christopher@epa.gov

From: Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]
Sent: Monday, June 02, 2014 11:48 AM
To: Guzzetti, Christopher
Cc: Kapell, Arthur; Glossbrenner, Ellwood T; Post, Thomas C
Subject: NON-CONTIGUOUS ONSITE APPROVAL

Chris, we will be decommissioning the septic holding tank that supported MO-474 at 100-B in the near future and I'd like to request your approval to send the mercury float switches to the 100-D Area, where we still have a drum holding some mercury for recycling, see previous request below.

Artie, do you mind if we send some mercury from 100-B to 100-D for temporary storage prior to sending the material for recycle?

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

From: Guzzetti, Christopher [<mailto:Guzzetti.Christopher@epa.gov>]
Sent: Friday, February 21, 2014 7:20 AM
To: Saueressig, Daniel G
Cc: Kapell, Arthur; Glossbrenner, Ellwood T
Subject: RE: NON-CONTIGUOUS ONSITE APPROVAL

I concur with this approach.

Christopher J. Guzzetti
Project Manager
Hanford Project Office
U.S. Environmental Protection Agency
309 Bradley Boulevard, Suite 115
Richland, WA 99352

Phone: (509) 376-9529
Fax: (509) 376-2396
Email: guzzetti.christopher@epa.gov

From: Saueressig, Daniel G [<mailto:dgsauere@wch-rcc.com>]
Sent: Thursday, February 20, 2014 6:35 AM
To: Guzzetti, Christopher
Cc: Kapell, Arthur; Glossbrenner, Ellwood T
Subject: NON-CONTIGUOUS ONSITE APPROVAL

Chris, we have a couple of septic tanks that have been taken out of service and we are preparing to close them in accordance with the Department of Health requirements. We will be pulling the mercury float switches from the septic holding tanks at 100-K and 100-H and I'd like to request your approval to move the switches to the 100-D Area, where we currently have a drum holding some mercury for recycle. The mercury will be sent to the Centralized/Consolidation Recycle Center operated by MSA for recycle.

Thanks and give me a call if you have any questions.

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

Attachment 9

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, December 08, 2014 4:12 PM
To: ^WCH Document Control
Subject: FW: BOTTLED LIQUIDS AT 600-358

Please provide a chron number. This email documents a regulatory agreement.

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

From: Guzzetti, Christopher [<mailto:Guzzetti.Christopher@epa.gov>]
Sent: Monday, December 08, 2014 3:44 PM
To: Saueressig, Daniel G
Cc: Zeisloft, Jamie
Subject: RE: BOTTLED LIQUIDS AT 600-358

I concur.

Christopher J. Guzzetti
Project Manager
Hanford Project Office
U.S. Environmental Protection Agency
309 Bradley Boulevard, Suite 115
Richland, WA 99352

Phone: (509) 376-9529
Fax: (509) 376-2396
Email: guzzetti.christopher@epa.gov

From: Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]
Sent: Monday, December 08, 2014 2:33 PM
To: Guzzetti, Christopher
Cc: Zeisloft, Jamie
Subject: BOTTLED LIQUIDS AT 600-358

Chris, just confirming our conversation earlier today regarding our path forward for the bottled liquids we have encountered at 600-358. Sample data for the suspect tear gas vials we found were consistent with what would be expected from old tear gas canisters. Since this material is acceptable for disposal at ERDF, we plan to crush any additional tear gas vials we encounter and load them out for disposal at ERDF since ERDF can't take free liquids. In addition, to date I believe we have found 3 other suspect liquid bottles at the site. Plans for these (and any other non-tear gas bottles encountered) are to break to bottles in a tote containing absorbent material and send the absorbed

liquid to an offsite laboratory for analysis. The project needs to crush the bottles in absorbent so the material can be compliantly shipped to the laboratory.

Let me know if you concur with the path forward for I described above.

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

Attachment 10

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, December 08, 2014 11:51 AM
To: ^WCH Document Control
Subject: FW: Off-Site Determination

Please provide a chron number. This email documents a regulatory approval.

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

-----Original Message-----

From: Einan, Dave [<mailto:Einan.David@epa.gov>]
Sent: Monday, December 08, 2014 10:02 AM
To: Saueressig, Daniel G
Subject: RE: Off-Site Determination

Burlington and Clean Harbors are both acceptable for shipments through February 1, 2015.

Dave Einan
509-376-3883

-----Original Message-----

From: Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]
Sent: Monday, December 08, 2014 6:10 AM
To: Einan, Dave
Subject: RE: Off-Site Determination

Hi Dave, have your heard from the 2 locations below? Sorry to pester you but we're still hoping to ship the material tomorrow.

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

-----Original Message-----

From: Saueressig, Daniel G
Sent: Wednesday, December 03, 2014 2:52 PM
To: Einan, David R
Cc: 'Simes, Benjamin (Simes.Benjamin@epa.gov)'; Zeisloft, Jamie

Subject: RE: Off-Site Determination

Dave, regarding your question as to whether Burlington transships material to other locations for potential treatment, you were correct. The final treatment of the material will take place at Clean Harbors in Utah, below is the pertinent information you may need to get their approval also. We're still hoping to ship this small amount of material on December 9 so let us know if Burlington and Clean Harbors are acceptable.

Clean Harbors Aragonite, LLC
1600 North Aptus Road
Aragonite, Utah 84029

US EPA ID No. UTD981552177

435-884-8100

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

-----Original Message-----

From: Saueressig, Daniel G
Sent: Monday, November 10, 2014 7:15 AM
To: Einan, David R
Cc: Simes, Benjamin (Simes.Benjamin@epa.gov); Zeisloft, Jamie
Subject: FW: Off-Site Determination

Dave, I'd like to request offsite approval to send a small amount of spill cleanup material to Burlington Environmental, see information below.

Let me know if Burlington is acceptable.

Thanks,

Dan Saueressig
Environmental Project Lead
Washington Closure Hanford
521-5326

-----Original Message-----

From: Gibbons, James C
Sent: Thursday, November 06, 2014 9:33 AM
To: Saueressig, Daniel G
Cc: Drago, Patricia A
Subject: FW: Off-Site Determination

Dan,

On December 9, 2014 we plan on shipping a 5-gal pail containing soil/gasoline generated during a spill cleanup from 618-10. This product designates as a D018 dangerous waste. This email is a request for an off-site TSDf acceptability determination as required by 618-10's RDR/RAWP (DOE/RL-2001-47) and 40 CFR 300.440. The pertinent information for the proposed TSDf is listed below.

Burlington Environmental, LLC
20245 77th Avenue South
Kent, WA 98032

RCRA ID No.: WAD991281767

Facility Contact: John Carpenter, Plant Manager
(253) 872-8030

Please let me know if you need any further information.

Thanks,

Jim Gibbons
Washington Closure Hanford
Waste Services
618-10
(509) 222-0322

Attachment 11

300 Area Closure Project Status
December 11, 2014
100/300 Area Combined Unit Manager Meeting

309 PRTR

- Below-grade demolition ongoing, approaching the -32 foot elevation.
- Initial core data shows hexavalent chromium above CULs.
- Completing remediation of waste sites UPR-300-5, 300-255, and 300-22.
- Deep zone characterization of remaining structures and soils pending.

340 Complex

- Completed final remediation of 340 waste sites, cleanup of hot-spots.
- Initiating final GPERS surveys and Work Instruction development.
- Completing backfill of the ramp.

324 Laboratory

- Completed radiological surveys from within the newly installed, and previously placed, geoprobes. Dose profiles from previously placed probes are similar to readings from 2010.
- Dose profiles from newly installed probes are in the same range as old tubes with newest high reading of 12,700 R/hr.
- Collected temperature readings from within newly installed, and previously placed, geoprobes. Temperatures are similar to previously collected with the high at ~140 degrees F.
- 60% Design for the 300-296 remediation has been delivered to WCH by the subcontractor. WCH review is complete.
- Met target milestone M-089-06-T01 with submittal of 30% design on 9/30/14.
- Construction of the REC mock-up is ongoing.

Remediation

- Zone 1, 300-15 (process sewer) remediation completed, close-out verification samples collected, backfill concurrence in development.
- Remediation of Zones 2 and 3 RRLWS, RLWS, 300-214 (retention process sewer) and 300-15 piping completed.
- Completed remediation and close-out verification sampling of the 300-7 waste site (early burial ground), backfill concurrence under development.
- Completed remediation of 300-9 waste site, verification sampling pending.
- Remediation of the 300-289 waste site initiated.

300 Area Closure Project Status Continued

- Remediation of the 300-4 waste site initiated.
- Subsurface investigation of 300-288:2 pending, ground scans complete.
- Significant subsurface debris is present.
- Intrusive characterization of 300-288:2 pending.
- 300-15:5 evaluation.

Demolition

- Completed demolition of the 351 Substation

RDR/RAWP

- Finalizing the 300 Area RDR/RAWP soils addendum for EPA signature, SAP approved.

316-3 Waste Site

- During remediation of the 300-263 waste site (324 crib waste tank), uranium contamination was encountered.
- Analytical data shows shallow zone CULs exceeded for uranium isotopes, deep zone CULs exceeded for total uranium and Cr 6+.
- Revising prerequisite documents to support remediation (e.g. TEDE).

Revegetation

- Targeting as many sites as possible this winter.

Attachment 12

ESH&QA Mission Completion Project

December 11, 2014

Long-Term Stewardship

- Continued drafting of the 100-BC-2 OU Interim Remedial Action Report.

Final Action ROD RDR/RAWPs

- All comments on the 300-FF-2 RDR/RAWP Soil Addendum have been resolved and the document is in the final approval process.
- The 300-FF-2 Soil SAP was approved on 11/14/14.
- The decisional draft of the 100-F/IU-2/IU-6 RDR/RAWP Soil Addendum was provided to DOE-RL for review on 12/3/14.