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Please distribute to the following:

100/300 AREA UNIT MANAGER MEETING
ATTENDANCE AND DISTRIBUTION

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100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MEETING MINUTES

June 12, 2014

APPROVAL: _____ Date 7/10/2014
Mark French, DOE/RL (A6-38)
River Corridor Project Manager

APPROVAL: _____ Date 7/10/14
Briant Charboneau, DOE/RL (A6-38)
Groundwater Project Manager

APPROVAL: _____ FOR Date 7/10/14
Nina Menard, Ecology (H0-57)
Environmental Restoration Project
Manager

APPROVAL: _____ Date 7/10/14
Laura Buelow, Rod Lobos, or Christopher
Guzzetti, EPA (B1-46)
100 Area Project Manager

APPROVAL: _____ for Date 7/10/14
Benjamin Simes, EPA
(B1-46)
300 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

June 12, 2014

ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) – The next meeting will be held July 10, 2014, 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 May 8, 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 Regular Session meeting agenda.

EXECUTIVE SESSION (Tri-Parties Only)

An Executive Session was not held by RL, EPA, and Ecology prior to the June 12, 2014, 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 (WCH combined its D4 and Field Remediation organizations). No issues were identified and no action items were documented.

> Agreement 1: Attachment 4 provides EPA's and Ecology's concurrences of a non-contiguous onsite approval request to send mercury float switches from the MO-474 septic holding tank at 100-B to the 100-D Area mercury recycling drum.
>
> Agreement 2: Attachment 5 provides DOE's and Ecology's concurrences to set up a staging pile area to support remediation of 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. Attachment 6 provides a presentation on the 100-NR-2 Apatite Permeable Reactive Barrier Performance. Attachment 7 provides a chart showing biovent well sample results for 199-N-171 and 199-N-169. No issues were identified and no agreements or action items were documented.

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. Attachment 8 provides the Field Remediation Schedule for 100-D and 100-H. 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. Attachment 9 provides the Field Remediation Schedule for IU-2/6. No issues were identified and no action items or agreements were documented.

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 agreements or action items were documented.

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

Attachment 1 provides status and information for groundwater. Attachment 10 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 11 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.

100/300 AREA UNIT MANAGER MEETING
ATTENDANCE AND DISTRIBUTION
June 12, 2014

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6/12/14

Attachment B

100/300 Area UMM
Action List
June 12, 2014

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-199	RL	J. Neath	All	DOE will present a briefing on the new DOE beryllium posting requirements for worker protection.	Open: 3/13/14; Action: Closed 5/8/14

Attachment C

100/300 Area Unit Manager Meeting
June 12, 2014
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99354
Room C209; 2:00p.m.

Administrative:

- Approval and signing of previous meeting minutes (May 8, 2014)
- Update to Action Items List
- Next UMM (7/10/2014, Room C209)

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

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

Special Topics/Other

Adjourn

Attachment 1

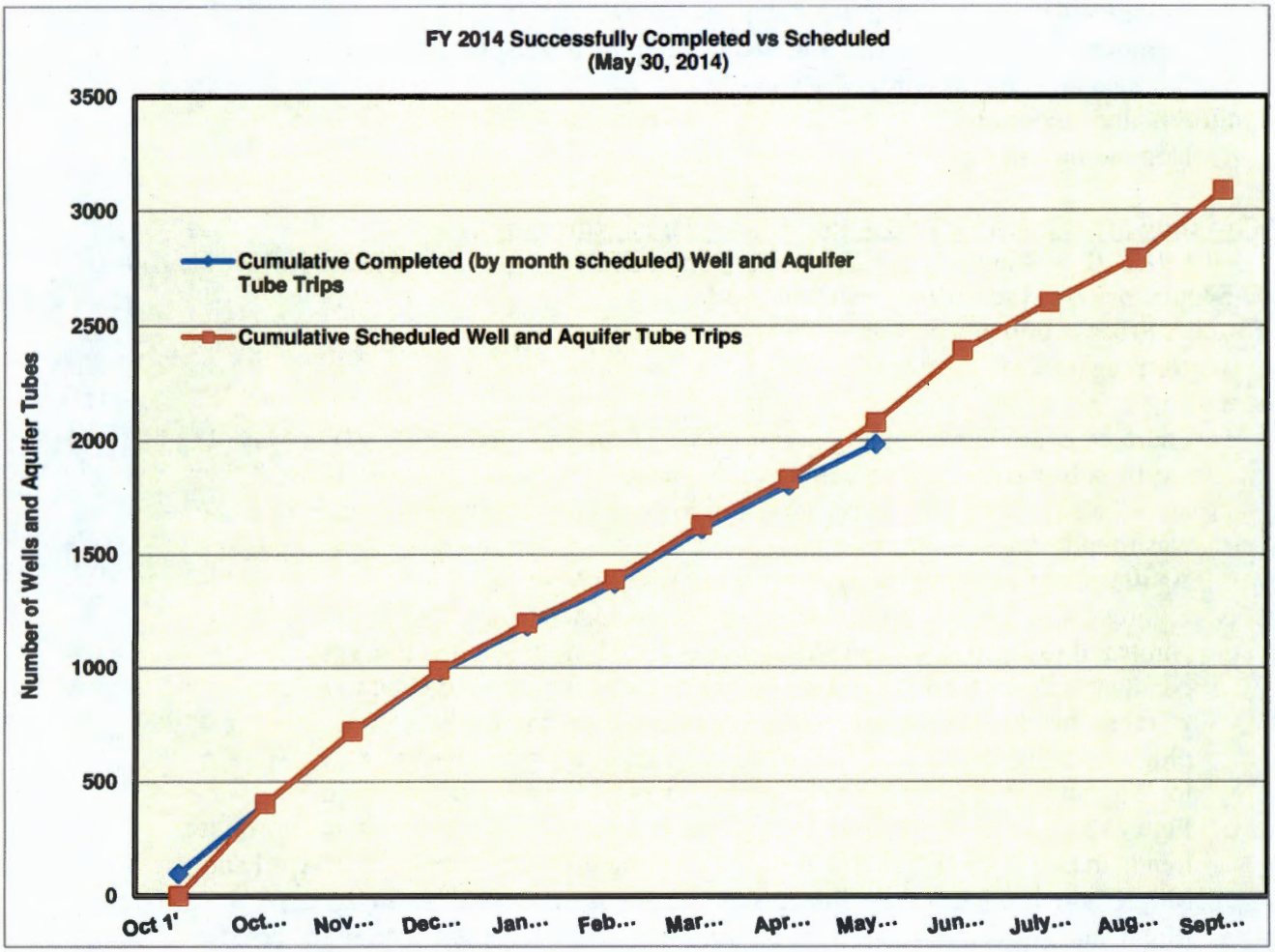
100/300 Areas Unit Managers Meeting
June 12, 2014

General information on Remedy Selection & Implementation

Hanford's overall Site groundwater monitoring program (river corridor and central plateau) for 2014 has 3,089 sample trips scheduled for collection. During May 2014 (month eight) the program successfully completed 181 groundwater sampling trips of the 249 scheduled for May and 2 trips scheduled for October through April. This brings the total number of sample trips scheduled for October through May to be collected successfully to 1,983 of 2,079.

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

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
June 12, 2014

100-KR-4 Groundwater Operable Unit – Ella Feist/Chuck Miller/Randy Hermann

- 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 is underway to complete the characterization in FY15.
  - RD/RAWP, Monitoring Plan, and Operations and Maintenance Plan: Addressing RL comments.
- Remedial Actions & System Modifications
  - Operations continue at KX, KR-4, and KW pump-and-treat systems. April 2014 performance:
    - The systems treated 53.93 million gallons.
    - The system removed 3.48 kg of hexavalent chromium.
  - Continued construction activities to connect wells199-K-205 and 199-K-206, which are planned as extraction and injection wells respectively for the KW P&T.
  - Completed construction and development of well 199-K-212.
  - Completed construction and initiated development of well 199-K-210.
  - Initiated construction of well 199-K-220.
- Monitoring and Reporting
  - Nothing new to report.

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

(M-015-79 due 12/15/2016, Submit CERCLA RI/FS Report and Proposed Plan for the 100-BC-1, 100- BC-2 and 100-BC-5 Operable Units for groundwater and soil.)

- CERCLA Process Implementation
  - Nothing new to report.
- Monitoring & Reporting
  - Fourteen hyporheic sampling points (HSPs) were sampled for Cr(VI) in May: 11 of the 14 half-meter HSPs and all 3 of the one-meter HSPs. Two more HSPs (C8859 and C8860) were found to be broken in May. As reported last month, HSP C8861 was found broken in April.
  - As illustrated in Figure BC-1, river stage rose in May.
  - Figures BC-2 and BC-3 illustrate specific conductance and Cr(VI) in May 2014 compared to April 2014 and December 2013. Many HSPs had low specific conductance and Cr(VI) in May. Further work is being conducted to determine whether the changes are representative of conditions in the hyporheic zone, or if the plugs at the top of the HSPs have begun to leak, allowing in river water. We are looking into options for repair or replacement of failing and broken HSPs.
  - Figures BC-4 and BC-5 illustrate specific conductance and hexavalent chromium trends in two of the HSPs that retained a strong groundwater signal in April and May. There is a general decline in specific conductance and chromium.
  - March and April 2014 data from the four new wells screened deep in the aquifer had low dissolved oxygen. The problem was traced to an incorrect pump intake depth, which resulted in an insufficient purge. As a result, the data from the March and April sampling events are flagged "R" (rejected). The wells are scheduled for sampling in early July; the pump intakes will be set within the screens and dissolved oxygen will be closely monitored. To make up for the rejected data, the deep wells and their shallow partners have been scheduled for an extra sample trip in late August. Another extra trip will be scheduled in FY 2015.

- Data from the new shallow wells and other wells sampled in April were loaded into HEIS. Results are consistent with previous data.

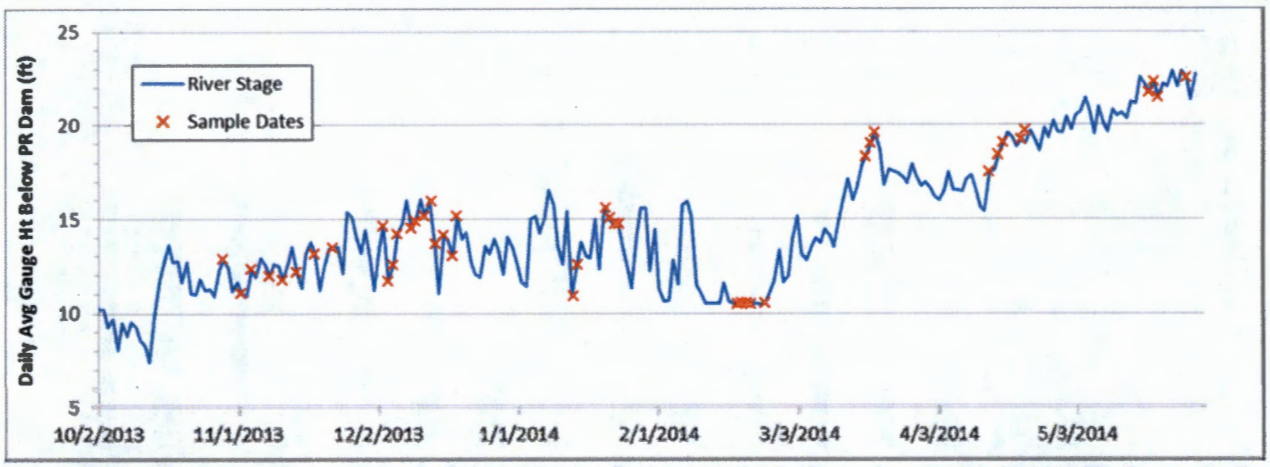


Figure BC-1. Daily Average River Stage Below Priest Rapids Dam and 100-BC HSP Sample Dates

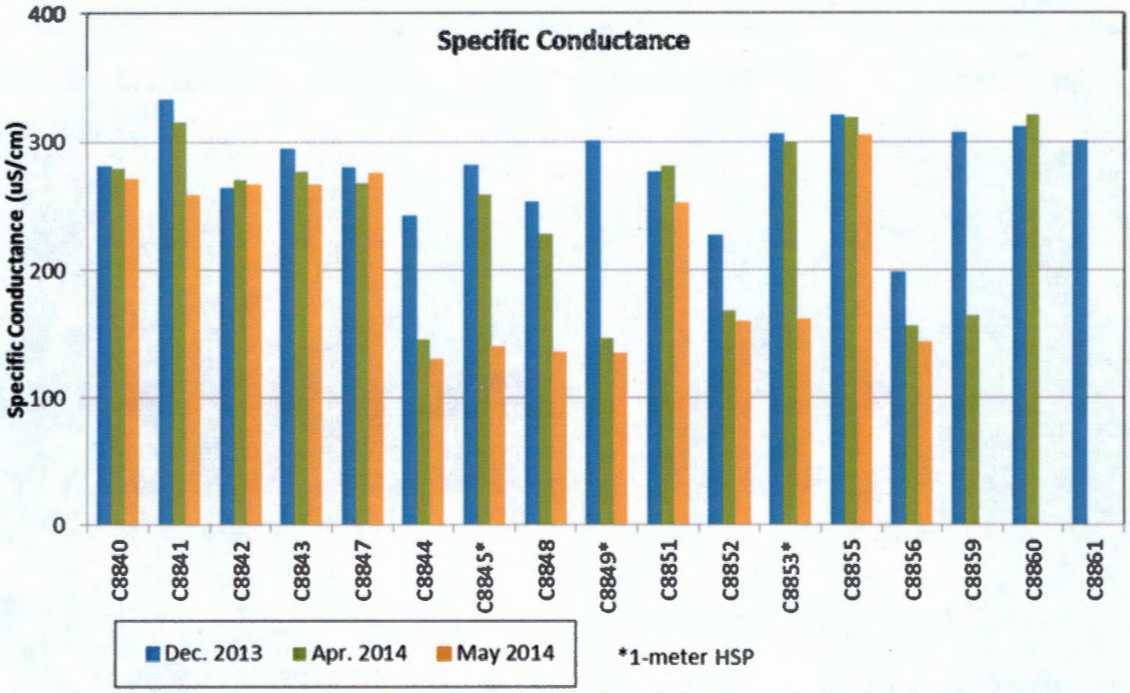


Figure BC-2. Specific Conductance in 100-BC Hyporheic Sampling Points.

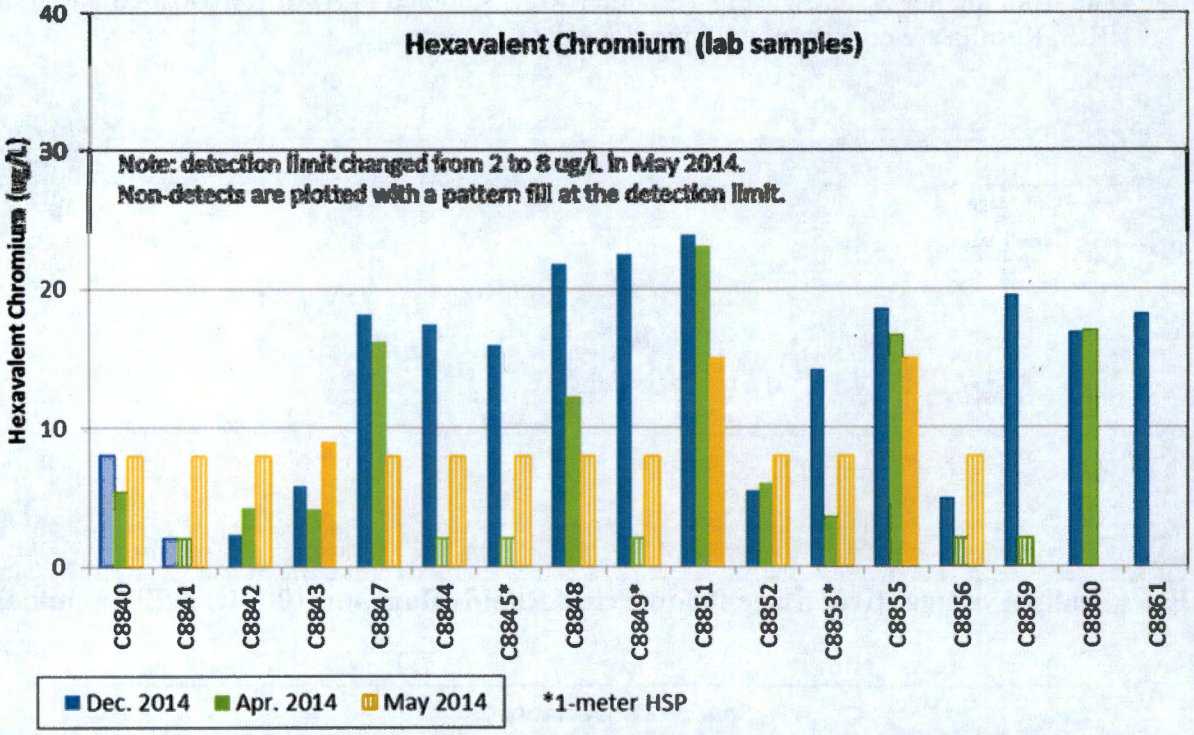


Figure BC-3. Hexavalent Chromium in 100-BC Hyporheic Sampling Points.

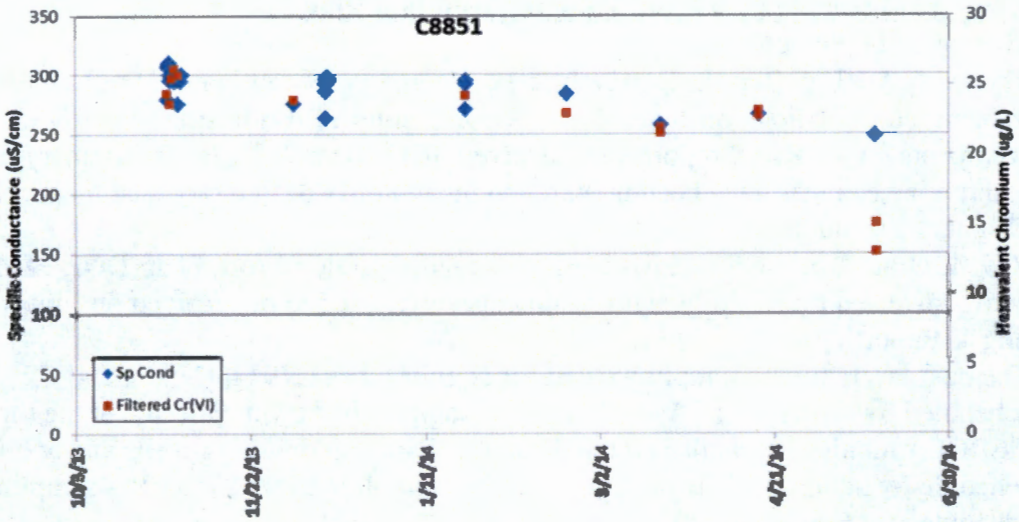


Figure BC-4. Specific Conductance and Hexavalent Chromium Trends in HSP C8851.

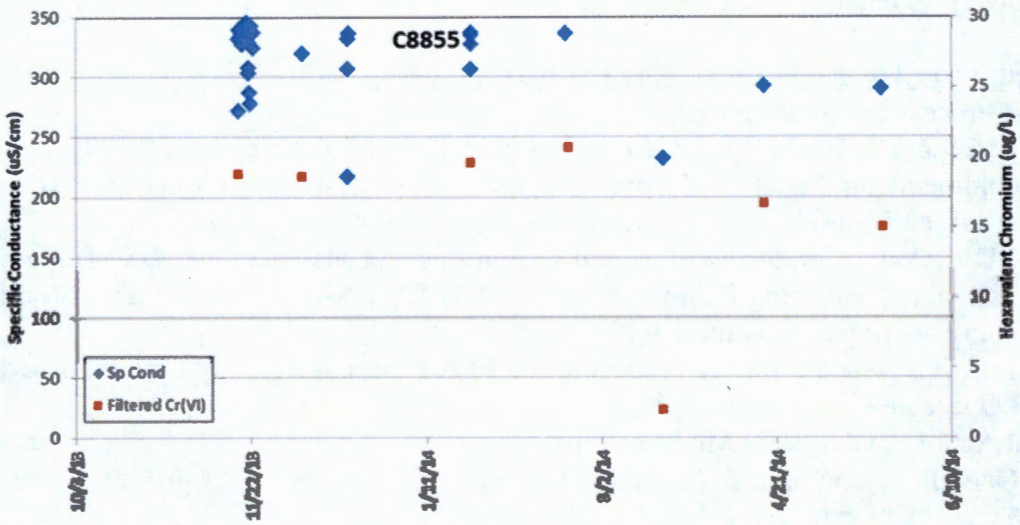


Figure BC-5. Specific Conductance and Hexavalent Chromium Trends in HSP C8855.

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

- 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 RI/FS report were received on October 2, 2013. Preliminary responses and redline changes have been prepared to the majority of Ecology's comments for Chapters 1 through 8.
  - Rev. 1, Draft A of the Remedial Design/Remedial Action Work Plan (DOE/RL-2001-27) is being reviewed by Ecology, with comments anticipated to be received on June 16, 2014.
- Monitoring & Reporting:
  - The next groundwater sampling event for aquifer tubes C7934, C7935, and C7936 is scheduled for September. As of June 4, no samples had been collected at the three CERCLA monitoring wells and the 53 apatite barrier monitoring wells and aquifer tubes schedule for sampling. The next groundwater sampling event for RCRA sampling is scheduled for September 2014.

  - The PRB injection work scheduled for 2014 is currently on hold pending an MOA with the YN Tribe regarding cultural mitigation efforts

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

- CERCLA Process Implementation:
  - RI/FS & PP: RL has provided proposed responses to approximately 99% of more than 700 comments on the RI/FS document. The working draft A of the RI/FS is scheduled to be provided for review to RL and the regulators by the end of June.
  - RD/RAWP, Monitoring Plan, and Operations and Maintenance (O&M) Plan: The O&M Plan and Monitoring Plan were reviewed by RL's SAP Review Panel. Modifications are being made based on the Panel's input.

  Ecology has issued a waiver request to the EPA National Remedy Review Board for the 100 D/H Operable Unit Proposed Plan
- Remedial Actions and System Modifications
  - Operations continue at DX and HX pump-and-treat system. April 2014 performance:
    - The systems treated 57.13 million gallons
    - The system removed 16.91 kg of hexavalent chromium.
  - Conversion of monitoring wells 199-D5-153, 199-D5-146 and 199-D5-148 to extraction and injection wells is progressing, with completion planned for June.
  - All four wells have been installed at 100-D-100, and the initial round of groundwater sampling has been completed. Preliminary results indicate the highest hexavalent chromium levels were at 847µg/L from the upper most port in Well 199-D5-156 (C8954). Not all results have been received.
- Monitoring & Reporting
  - Nothing new to report.

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

- CERCLA Process Implementation:
  - The PP and the RI/FS were delivered to RL on June 4, 2014.
  - Public review of the PP is scheduled to begin June 9, 2014.
  - Preparation of the ROD and Responsiveness Summary is scheduled to occur from June to September, with the ROD planned to be issued in September 2014.

- Monitoring & Reporting
  - Data from the three monitoring wells sampled in April were loaded into HEIS. Figure F-1 shows hexavalent chromium data from two wells in central 100-F. Concentrations are stable in 199-F5-48. Well 199-F5-56, which was installed as a vadose boring during the Remedial Investigation, has shown a generally increasing trend. Strontium-90 (Figure F-2) shows a declining trend in 199-F5-56 and also in 199-F5-55, another vadose boring located in eastern 100-F.

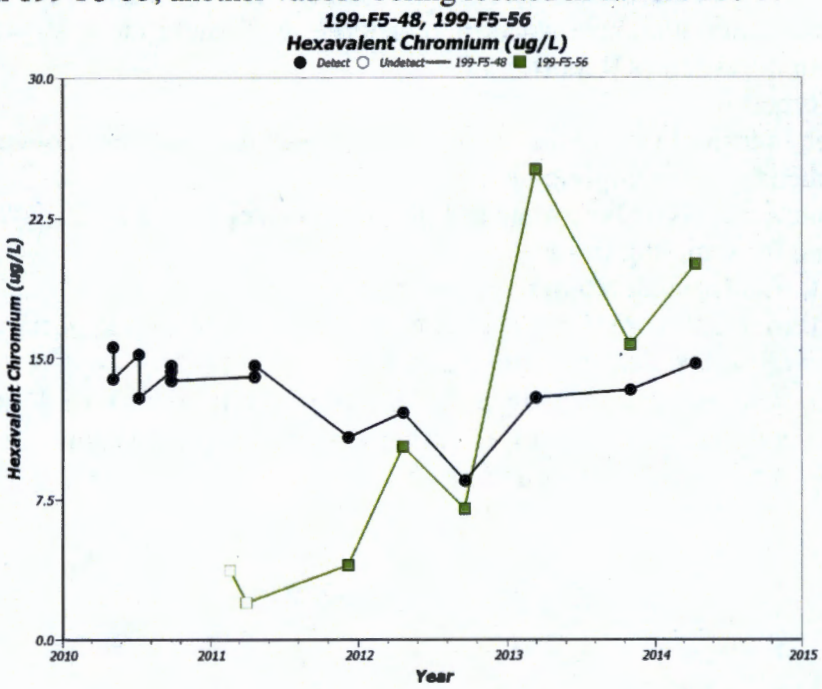


Figure F-1. Hexavalent Chromium Trends in Central 100-F Monitoring Wells

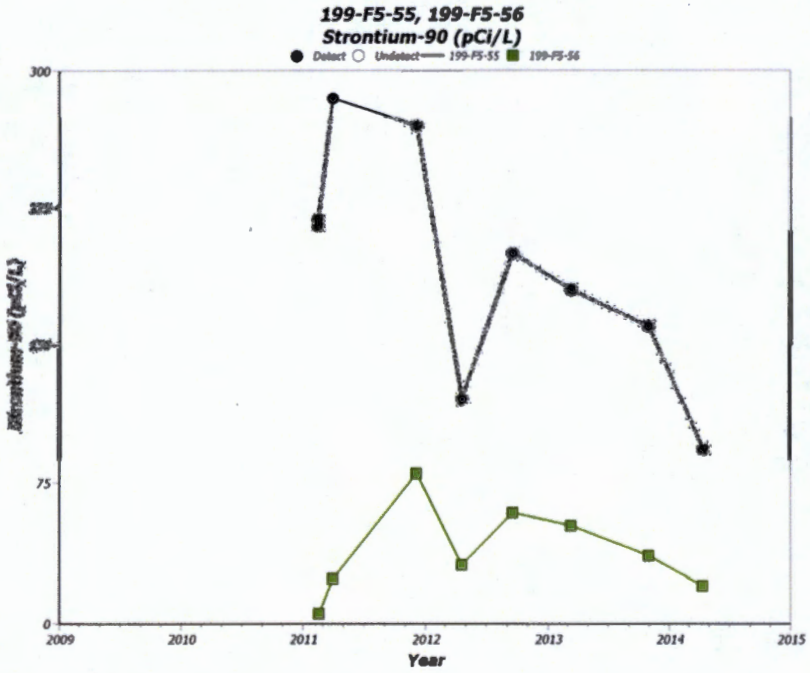


Figure F-2. Strontium-90 Trends in 100-F Monitoring Wells

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

- CERCLA Process Implementation:
  - DOE transmitted the Integrated Remedial Design Report/Remedial Action Work Plan, Draft A, for EPA review on May 22, 2014
  - Updating the *Sampling Instructions for the 300-FF-5 Operable Unit Supplemental Post-ROD Field Investigations* (SGW-56993) to Draft A for submittal to EPA.
  - Completed cultural/archeological field visits (May 27 and June 4, 2014); finalizing the Cultural Resources Report
- Monitoring & Reporting
  - 300 Area Industrial Complex: As of June 4, no samples had been collected at the 47 wells scheduled for sampling in June.
  - 340 Vault Area: As of June 4, no samples had been collected at the seven wells scheduled for sampling in June.
  - 618-11 Burial Ground: Nothing new to report.
  - 618-10 Burial Ground/316-4 Crib: As of June 4, no samples had been collected at the five wells scheduled for sampling in June.
  - 300 Area Process Trenches (316-5) RCRA Monitoring: As of June 4, no samples had been collected at the eight wells scheduled for sampling in June.
  - 300 Area Aquifer Tubes: Nothing new to report.

100/300 Areas Unit Managers Meeting
June 12, 2014

Information Tables for Groundwater Sampling

Table 1 - Wells, Aquifer Tubes and springs in the River Corridor Areas Successfully Sampled in May 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-D2-11	199-H1-7	199-K-107A	199-K-149		
C8840		199-D2-11	199-H2-1	199-K-108A	199-K-150		
C8841		199-D2-6	199-H3-10	199-K-110A			
C8842		199-D4-39	199-H3-3	199-K-111A			
C8843		199-D5-103	199-H3-5	199-K-113A			
C8844		199-D5-103	199-H3-6	199-K-114A			
C8845		199-D5-104	199-H3-7	199-K-115A			
C8847		199-D5-104	199-H4-11	199-K-116A			
C8848		199-D5-127	199-H4-12A	199-K-119A			
C8849		199-D5-133	199-H4-16	199-K-124A			
C8851		199-D5-133	199-H4-46	199-K-125A			
C8852		199-D5-145	199-H4-49	199-K-129			
C8853		199-D5-145	199-H4-65	199-K-13			
C8855		199-D5-34	199-H4-84	199-K-133			
C8856		199-D5-34	199-H4-85	199-K-136			
C8859		199-D5-39	199-H4-86	199-K-137			
		199-D5-39	199-H5-1A	199-K-138			
		199-D5-92	199-H6-1	199-K-139			
		199-D5-97	199-H6-3	199-K-140			
		199-D5-97	199-H6-4	199-K-141			
		C6266		199-K-142			
		C6267		199-K-144			
		C6268		199-K-145			
		C6269		199-K-147			
		C6270		199-K-148			
		C6271		199-K-157			
		DD-41-1		199-K-162			
		DD-41-2		199-K-168			
		DD-41-3		199-K-178			
		DD-42-2		199-K-181			
		DD-42-3		199-K-184			
		DD-42-4		199-K-185			
		DD-43-2		199-K-186			
		DD-43-3		199-K-187			
		DD-44-3		199-K-188			
		DD-44-4		199-K-189			
		Redox-1-3.3		199-K-19			
		Redox-1-6.0		199-K-190			
		Redox-2-6.0		199-K-191			

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
		Redox-3-3.3		199-K-193			
		Redox-3-4.6		199-K-194			
		Redox-4-3.0		199-K-196			
		Redox-4-6.0		199-K-198			
				199-K-199			
				199-K-201			
				199-K-22			
				199-K-23			
				199-K-32A			
				199-K-36			
				199-K-37			
				699-78-62			

Table 2 - Sample Trips Outstanding at the end of May 2014

GWIA	SAMP_SITE_TYPE	SITE_NAME	SCHEDULE_DATE	Sample Status Comment
100-BC-5	PROPOSED AQUIFER TUBE	C8860	5/1/2014	Unsuccessful
100-HR-3-D	WELL	199-D3-5	5/1/2014	Quarterly
	WELL	199-D4-93	1/1/2014	Maintenance Required
	WELL	199-D4-93	4/1/2014	Maintenance Required
	WELL	199-D5-106	5/1/2014	Not Attempted
	WELL	199-D5-132	5/1/2014	Quarterly
	WELL	199-D5-142	5/1/2014	Quarterly
	WELL	199-D5-143	5/1/2014	Quarterly
	WELL	199-D5-146	4/7/2014	Not Attempted
	WELL	199-D5-147	5/1/2014	Quarterly
	WELL	199-D5-148	4/7/2014	To be Canceled
	WELL	199-D5-17	5/1/2014	Biannual
	WELL	199-D5-18	5/1/2014	Biannual
	WELL	199-D5-19	5/1/2014	Biannual
	WELL	199-D5-40	5/1/2014	Quarterly
	WELL	199-D5-41	5/1/2014	Biannual
	WELL	199-D6-3	5/1/2014	Quarterly
	WELL	199-D8-6	4/1/2014	Quarterly
	WELL	199-D8-71	5/1/2014	Quarterly
	WELL	699-93-48A	5/1/2014	Quarterly
	WELL	699-95-48	5/1/2014	Quarterly
	WELL	699-95-51	5/1/2014	Quarterly
	WELL	699-96-52B	5/1/2014	Quarterly
	WELL	699-97-51A	5/1/2014	Quarterly
	WELL	699-98-49A	5/1/2014	Quarterly
	WELL	699-98-51	5/1/2014	Quarterly
100-HR-3-H	WELL	199-H1-3	12/1/2013	To be Canceled
	WELL	199-H1-32	5/1/2014	Quarterly
	WELL	199-H1-33	5/1/2014	Quarterly
	WELL	199-H1-35	5/1/2014	Quarterly

GWIA	SAMP_SITE_TYPE	SITE_NAME	SCHEDULE_DATE	Sample Status Comment
	WELL	199-H1-37	5/1/2014	Quarterly
	WELL	199-H1-38	5/1/2014	Quarterly
	WELL	199-H1-40	5/1/2014	Quarterly
	WELL	199-H3-4	5/1/2014	Quarterly
	WELL	199-H3-9	5/1/2014	Quarterly
	WELL	199-H4-12C	5/1/2014	Quarterly
	WELL	199-H4-15A	5/1/2014	Quarterly
	WELL	199-H4-4	5/1/2014	Quarterly
	WELL	199-H4-76	3/1/2014	To be Canceled
	WELL	699-94-41	5/1/2014	Quarterly
	WELL	699-94-43	5/1/2014	Quarterly
	WELL	699-95-45	5/1/2014	Quarterly
	WELL	699-97-41	5/1/2014	Quarterly
	WELL	699-98-46	5/1/2014	Quarterly
	WELL	699-99-41	5/1/2014	Quarterly
	WELL	699-99-44	5/1/2014	Quarterly
100-KR-4	WELL	199-K-106A	5/1/2014	Quarterly
	WELL	199-K-11	5/1/2014	Quarterly
	WELL	199-K-120A	5/1/2014	Biannual
	WELL	199-K-127	5/1/2014	Biannual
	WELL	199-K-132	5/1/2014	Biannual
	WELL	199-K-146	5/1/2014	Biannual
	WELL	199-K-153	5/1/2014	Biannual
	WELL	199-K-154	5/1/2014	Biannual
	WELL	199-K-161	5/1/2014	Unsuccessful
	WELL	199-K-163	5/1/2014	Biannual
	WELL	199-K-171	5/1/2014	Biannual
	WELL	199-K-182	5/1/2014	Quarterly
	WELL	199-K-192	5/1/2014	Quarterly
	WELL	199-K-197	5/1/2014	Quarterly
	WELL	199-K-200	5/1/2014	Quarterly
100-NR-2	WELL	199-K-131	5/1/2014	Biannual
	WELL	199-N-200	5/1/2014	Annual

100/300 Areas Unit Managers Meeting
June 12, 2014

GWIA	SAMP_SITE_TYPE	SITE_NAME	SCHEDULE_DATE	Sample Status Comment
	WELL	199-N-201	5/1/2014	Annual
	WELL	199-N-210	5/1/2014	Biannual
	WELL	199-N-333	5/1/2014	Biannual
	WELL	199-N-342	5/1/2014	Annual
	WELL	199-N-343	5/1/2014	Annual
	WELL	199-N-41	9/1/2013	Road Maintenance
1100-EM-1	WELL	699-S30-E15A	12/1/2013	Maintenance Required
300-FF-5	WELL	399-1-2	12/1/2013	Access Restricted
	WELL	399-1-63	9/1/2013	Maintenance Required
	WELL	399-1-63	12/1/2013	Maintenance Required
	WELL	399-4-10	12/1/2013	Access Restricted
	WELL	699-S6-E4B	12/1/2013	Maintenance Required

Table 3 - Groundwater Sampling Locations in the River Corridor Areas Scheduled to be sampled in June 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-B2-14		199-D2-11	199-H1-1		199-K-150		399-1-1
199-B2-16		199-D2-11	199-H1-2		199-N-122		399-1-10A
199-B3-1		199-D2-11	199-H1-25		199-N-123		399-1-10B
199-B3-46		199-D3-2	199-H1-27		199-N-146		399-1-11
199-B3-47		199-D4-14	199-H1-3		199-N-147		399-1-12
199-B3-50		199-D4-22	199-H1-34		199-N-165		399-1-15
199-B4-1		199-D4-23	199-H1-36		199-N-167		399-1-16A
199-B4-14		199-D4-25	199-H1-39		199-N-169		399-1-16B
199-B4-8		199-D4-38	199-H1-4		199-N-171		399-1-17A
199-B5-1		199-D4-62	199-H1-42		199-N-172		399-1-17B
199-B5-2		199-D5-103	199-H1-43		199-N-173		399-1-18A
199-B5-5		199-D5-103	199-H1-45		199-N-173		399-1-18B
199-B8-6		199-D5-103	199-H1-6		199-N-183		399-1-2
199-B9-3		199-D5-104	199-H3-2A		199-N-185		399-1-21A
C8840		199-D5-104	199-H3-2C		199-N-186		399-1-21B
C8841		199-D5-104	199-H4-10		199-N-187		399-1-57
C8842		199-D5-106	199-H4-13		199-N-188		399-1-59
C8843		199-D5-123	199-H4-45		199-N-19		399-1-6
C8844		199-D5-125	199-H4-5		199-N-3		399-1-7
C8845		199-D5-126	199-H4-63		199-N-346		399-1-8
C8847		199-D5-127	199-H4-64		199-N-347		399-2-1
C8848		199-D5-127	199-H4-69		199-N-348		399-2-2
C8849		199-D5-127	199-H4-70		199-N-349		399-2-32
C8851		199-D5-133	199-H4-75		199-N-350		399-2-5
C8852		199-D5-133	199-H4-76		199-N-351		399-3-1
C8853		199-D5-133	199-H4-77		199-N-352		399-3-10
C8855		199-D5-145	199-H4-84		199-N-353		399-3-12
C8856		199-D5-145	199-H4-90		199-N-354		399-3-18
		199-D5-145	199-H4-91		199-N-355		399-3-19
		199-D5-146			199-N-356		399-3-2
		199-D5-146			199-N-357		399-3-20
		199-D5-146			199-N-358		399-3-22
		199-D5-15			199-N-359		399-3-33
		199-D5-155			199-N-360		399-3-34
		199-D5-156			199-N-361		399-3-38
		199-D5-157			199-N-362		399-3-6
		199-D5-158			199-N-363		399-3-9
		199-D5-16			199-N-364		399-4-1
		199-D5-34			199-N-365		399-4-10
		199-D5-34			199-N-366		399-4-12

100/300 Areas Unit Managers Meeting
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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-D5-34			199-N-367		399-4-14
		199-D5-38			199-N-56		399-4-15
		199-D5-39			199-N-71		399-4-7
		199-D5-39			199-N-92A		399-4-9
		199-D5-39			199-N-96A		399-5-4B
		199-D5-43			199-N-96A		399-6-3
		199-D5-97			199-N-99A		399-8-5A
		199-D5-97			APT1		699-13-1C
		199-D5-97			APT5		699-S11-E12AP
		199-D8-5			C6132		699-S6-E4A
		199-D8-53			C6132		699-S6-E4B
		199-D8-54A			C6324		699-S6-E4E
		199-D8-54B			C7881		699-S6-E4K
		199-D8-68			N116mArray-0A		699-S6-E4L
		199-D8-69			N116mArray-0A		
		199-D8-70			N116mArray-10A		
		199-D8-72			N116mArray-11A		
		199-D8-73			N116mArray-15A		
		199-D8-88			N116mArray-2A		
		199-H1-5			N116mArray-3A		
		199-H4-80			N116mArray-4A		
		199-H4-81			N116mArray-6A		
		199-H4-82			N116mArray-8A		
					N116mArray-9A		
					NVP1-1		
					NVP1-2		
					NVP1-3		
					NVP1-4		
					NVP1-5		
					NVP2-115.1		
					NVP2-115.4		
					NVP2-115.7		
					NVP2-116.0		
					NVP2-116.3		

Attachment 2

100K Area Unit Managers Meeting
June 12, 2014

RL-0012 Sludge Treatment Project

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

- ECRTS process component procurements continue.
- 105-K West Basin Annex structural concrete installation has been completed. Mezzanine structural steel installation is in-progress.
- The in-basin ECRTS construction contractor is expected to mobilize and start work in mid-June.
- The Integrated Process Optimization Demonstration continues at MASF. Multiplexer control panel testing has been successfully completed.

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 are not funded in FY14.

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 continued. Such activities include preparation for below-water debris relocation to clear the ECRTS footprint, debris dose rate measurement and characterization, and IWTS garnet filter media characterization.
- The KW Basin below-water debris and demolition rubble Sample Analysis Plan is expected to be provided to EPA for review and approval in early September 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. Remediation of phase 2 waste sites is not currently funded in FY14.

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

- No demolition or soil remediation activities were conducted at100K during May.

- 105-KE Roof Repairs. A Hazard Review Board (HRB) on the elevated repairs of the 105-KE Roof was conducted on May 12, 2014. The elevated work began on May 19, 2014 after comments from the HRB were resolved. All repairs were conducted from the man lift and were completed on May 28, 2014. The repaired portions of the roof will be sealed with a Class A foam and coating (scheduled for the week of June 9, 2014).

- Repairs to the 105-KW roof will follow completion of the 105-KE roof.

- 100K Bore Holes. RL has initiated a contract change order with CHPRC to define the elements necessary to complete planning and field work required for drilling and sampling of characterization boreholes near the 105-KE reactor. Revisions to the sampling instruction are being written based on RL comments and CHPRC has submitted a change proposal in response to the contract change order. Field work planning is underway.

- Disposition of found fuel pieces at KW Basins. RL has provided a proposed plan to EPA to use six pieces of fuel discovered during K West Basin sludge level measurement for STP Phase 2 technology testing. The testing to be performed at PNNL includes size reduction and oxidation, and is expected to consume the fuel pieces.

Attachment 3

June 12, 2014 Unit Manager's Meeting
Closure Operations Status

100-B/C

- Completed remediation design for 100-B-35
- Completed demolition, load-out and backfill of 183-B Clearwells
- Completed hazardous material removal to MO-474, cold and dark scheduled for week of June 16. Relocation to ERDF scheduled by end of June 2014
- Continued exit item removal activities

100-D

- Continued remediation and stockpiling activities at 100-D-85:2 and 100-D-86:1
- Continued removal of 147-D (ISRM Pond)
- Continued load-out to ERDF
- Completed LDR chromium shipments to ERDF

100-H

- Continued load-out to ERDF

100-N

- Continued system operations for in-situ bioremediation system for UPR-100-N-17, deep vadose zone remediation; addressing regulatory agency comments on draft Operations & Maintenance Manual for system operation
- Continued removal of miscellaneous restoration and exit items
- Continued preparation of closure documents and conducting verification sampling
- Continued mobilization of backfill subcontractor

618-10 Trench Remediation

- Continued excavation and sorting of trench area
- Continued waste load out
- Continued drum characterization & handling activities
- Evaluating corrective actions from contaminated plastic spread
- Evaluating results of VPU mockup testing

100-IU-2/6

- Completed removal of all available Miscellaneous Restoration and Exit Items
- Completed mobilization activities for 600-349 UXO work and 600-20
- Continued remediation at 600-20 and 600-349
- Completed load-out of steel for recycling at 600-20 (49,780 lbs.)
- Completed verification sampling at 600-331
- Completed in-process sampling at 600-20

Attachment 4

176254

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, June 09, 2014 10:43 AM
To: ^WCH Document Control
Subject: NON-CONTIGUOUS ONSITE APPROVAL FOR MERCURY FROM 100-B TO 100-D
Attachments: RE: NON-CONTIGUOUS ONSITE APPROVAL

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

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

^WCH Document Control

From: Kapell, Arthur
Sent: Monday, June 09, 2014 8:20 AM
To: Saueressig, Daniel G; Guzzetti, Christopher
Cc: Glossbrenner, Ellwood T; Post, Thomas C
Subject: RE: NON-CONTIGUOUS ONSITE APPROVAL

Dan,

I have no problem with that.

Artie Kapell
Washington State Department of Ecology
Nuclear Waste Program
(509) 372-7895
akap461@ecy.wa.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 (ECY); 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 5

176281

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, June 11, 2014 4:01 PM
To: ^WCH Document Control
Subject: FW: STAGING PILE REQUEST FOR 100-B-35
Attachments: B-35 design.pdf

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

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

From: Guzzetti, Christopher [mailto:Guzzetti.Christopher@epa.gov]
Sent: Wednesday, June 11, 2014 3:15 PM
To: Post, Thomas C; Saueressig, Daniel G
Subject: RE: STAGING PILE REQUEST FOR 100-B-35

I concur as well.

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: Post, Thomas C [mailto:thomas.post@rl.doe.gov]
Sent: Wednesday, June 11, 2014 3:02 PM
To: Saueressig, Daniel G
Cc: Guzzetti, Christopher
Subject: Re: STAGING PILE REQUEST FOR 100-B-35

Sounds fine.

I approve of the proposed location.

Tom

Sent from my iPad

On Jun 11, 2014, at 1:52 PM, "Saueressig, Daniel G" <daniel.saueressig@wch-rcc.com> wrote:

It's a fairly good distance, looking at the map, it's located on the west side of the electrical yard.

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

From: Post, Thomas C [mailto:thomas.post@rl.doe.gov]
Sent: Wednesday, June 11, 2014 1:46 PM
To: Saueressig, Daniel G
Cc: Guzzetti, Christopher
Subject: Re: STAGING PILE REQUEST FOR 100-B-35

How far off the road is it (the road that runs past B and C Reactors)?

Tom

Sent from my iPad

On Jun 11, 2014, at 1:20 PM, "Saueressig, Daniel G" <daniel.saueressig@wch-rcc.com> wrote:

Chris/Tom, I'd like to request your approval to set up a staging pile area to support remediation of 100-B-35. See staging/stockpile area in the attached drawing. The staging pile will be operated in accordance with the requirements for staging piles in the RDR/RAWP (DOE/RL-96-17, Rev. 6, Section 4.5.2).

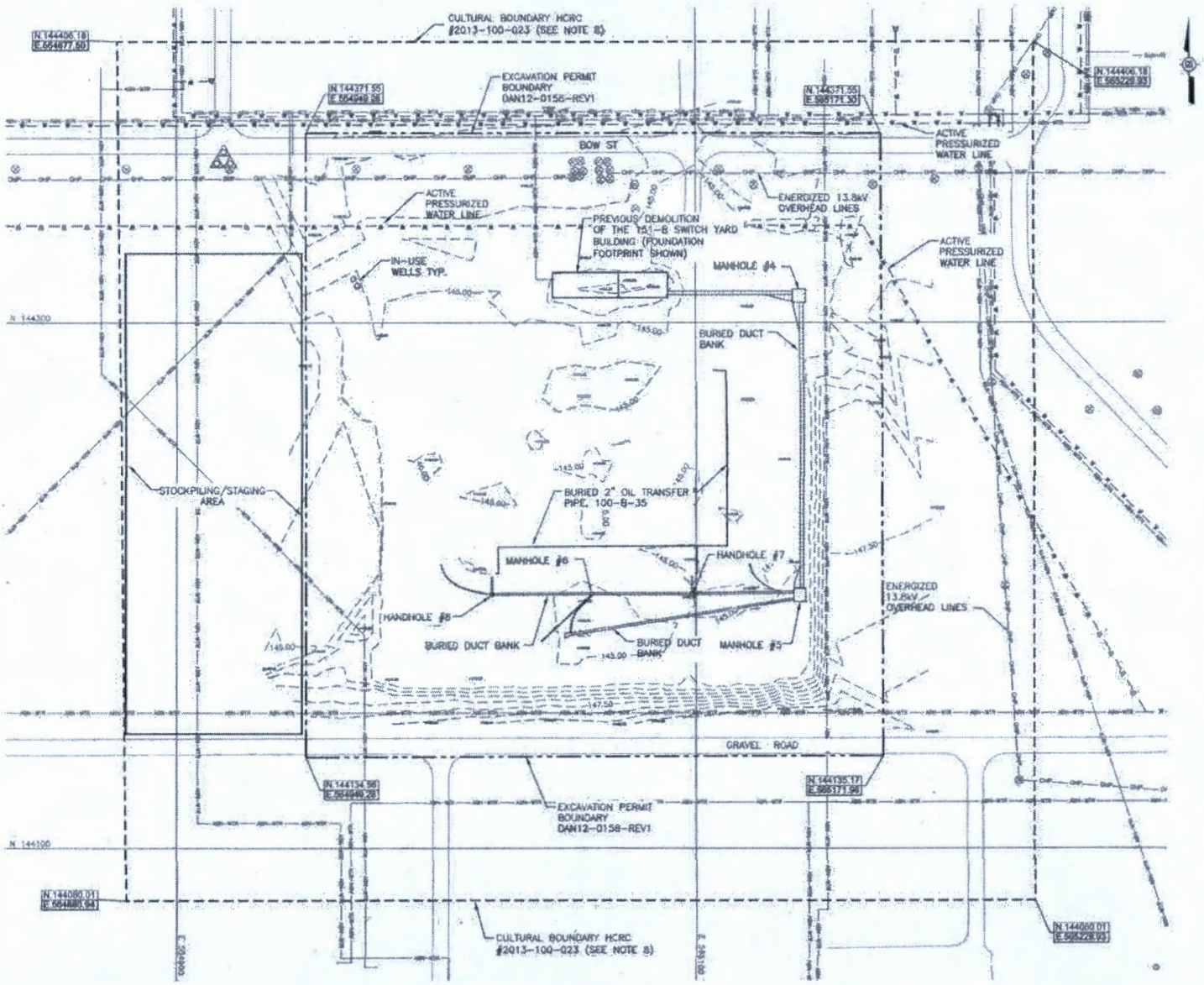
Let me know if you concur and give me a call if you have any questions.

Thanks,

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

<B-35 design.pdf>

DRAWING NO.	REV. NO.
0100B-DD-C0529	0



NOTES

1. LOCATION OF BURIED STRUCTURES AND DIMENSIONS PROVIDED WERE TAKEN FROM HANFORD SITE RECORDS AND DRAWINGS: W-71642, P-5604, P-5606, SHT 1, P-5606, SHT 2, P-5615, P-5631 AND P-5632. ACTUAL LOCATIONS AND DIMENSIONS SHALL BE VERIFIED AND DETERMINED IN FIELD. AS-BUILT CONSTRUCTION MAY VARY FROM NEAT-LINES SHOWN ON DRAWINGS.
2. WASTE SITE 100-B-35 INCLUDES THE 2" OIL/TRANSFER LINE. PIPELINE SHALL BE REMOVED INCLUDING ALL FITTINGS, AND VALVES THAT MAY STILL BE ATTACHED.
3. ALL ELEVATIONS AND DIMENSIONS ARE IN METERS EXCEPT AS SPECIFICALLY SHOWN.
4. BASE TOPOGRAPHY USED FOR DESIGN WAS TAKEN FROM AEROMETRIC'S 2008 FLY-OVER AND GPS SURVEY POINTS COLLECTED WITHIN THE EXCAVATION PERMIT AREA.

   HORIZONTAL DATUM: WASHINGTON STATE PLANE, SOUTH ZONE METERS NAD83(91) LAMBERT PROJECTION.

   VERTICAL DATUM: NATIONAL GEODETIC SURVEY DATUM NAVD88 METERS. CONTOUR INTERVAL: 0.5 METERS
5. PROTECT ALL ABOVE AND BELOW GRADE INTERFERENCES INCLUDING WELLS, BENCHMARKS, AND EXISTING ACTIVE UTILITIES.
6. LIMITS OF EXCAVATION ARE BASED ON A 1:5 HORIZONTAL TO 1.0 VERTICAL CUT SLOPE. THE ACTUAL EXCAVATION LIMITS SHALL BE ESTABLISHED IN ACCORDANCE WITH TECHNICAL SPECIFICATION DOCUMENTS.
7. STAGING/STOCKPILING SHALL TAKE PLACE INSIDE DEFINED LIMITS OF THE CULTURAL BOUNDARY.
8. CULTURAL BOUNDARY HCRC #2013-100-023 TAKEN FROM WIDS MAPPING AND ECO-CULTRUAL REVIEW (CCN: 172493, DATED 9/5/2013).

DOCUMENT CONTROL OKB 4/28/14

REV.	DATE	DESCRIPTION	DRAWN BY	CHKD BY	ENGR	PROJ ENGR	PROJ MGR	DOE APPL
0	4/22/14	ISSUED FOR CONSTRUCTION	CHL	JA	RGB	WA	JHC	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

100 B AREA
100-B-35 EXISTING CONDITIONS
CIVIL SITE PLAN

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	0100B-DD-C0529-R00

TASK	DRAWING NO.	REV. NO.
100B	0100B-DD-C0529	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-1-97999 SHT01	151-B	0110

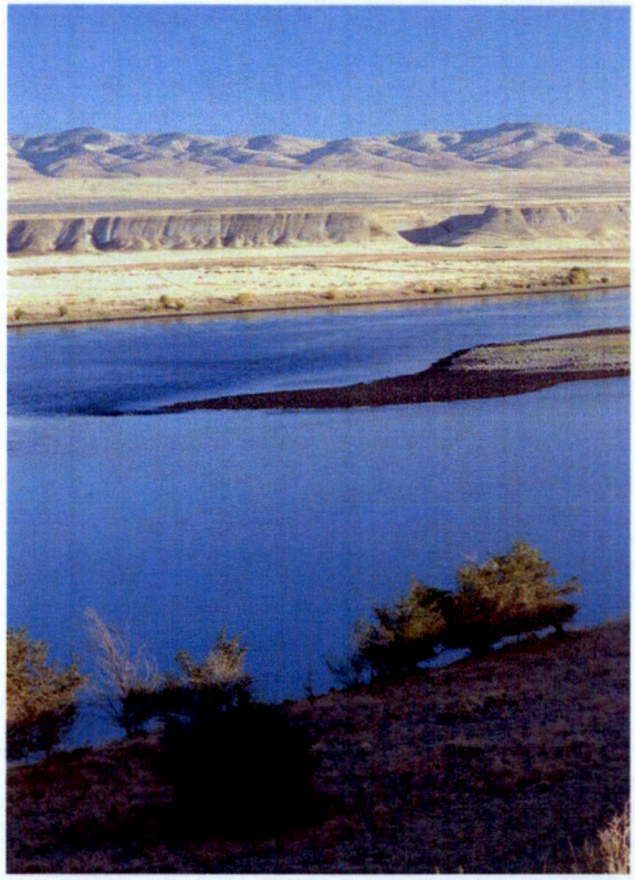
River Corridor Closure Contract
Dedicated To Safety Excellence

\\AUTOCAD01\CAD\DRAWINGS\0100B\100-B-35 DESIGN DRAWINGS\0100B-DD-C0529-R00.DWG

2014/04/24 4:02 PM

Attachment 6

CH2MHILL
Plateau Remediation Company



100-NR-2 Apatite Permeable Reactive Barrier Performance

Presented by: CHPRC
at June 2014 UMM

U.S. DEPARTMENT OF ENERGY

One Team. One Culture.

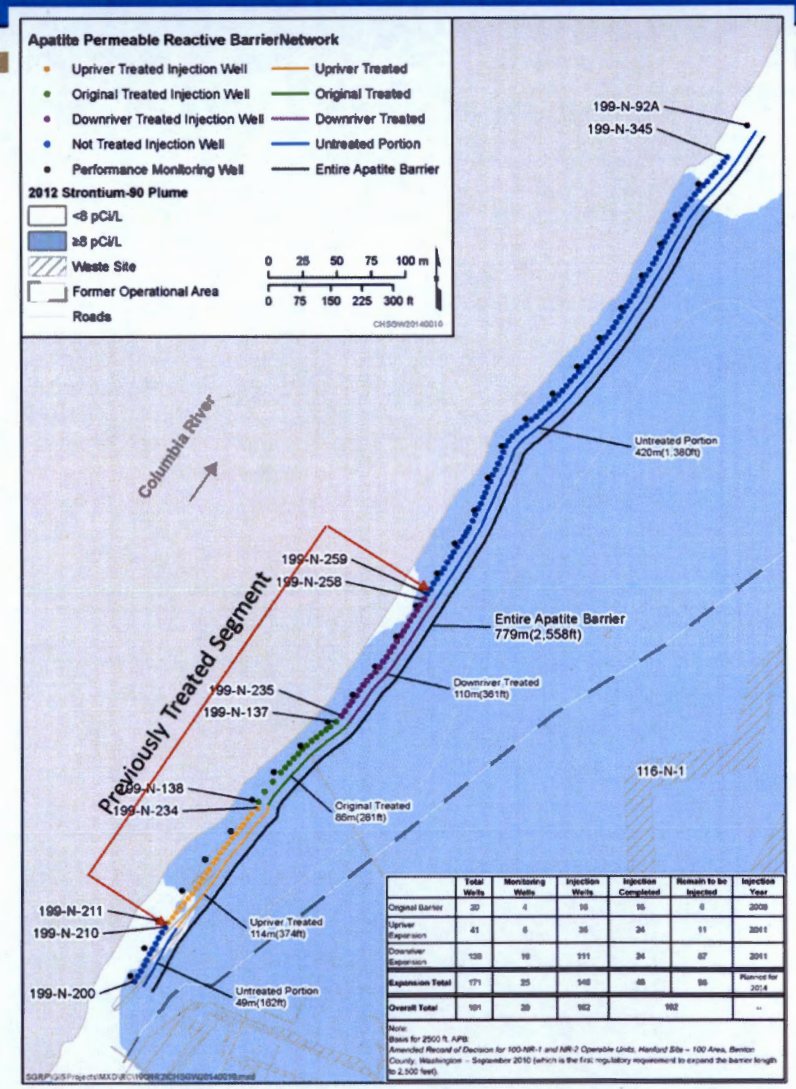
SGW-57580-VA

Remediation of Strontium-90

- Continued performance monitoring at the 900-ft-long apatite Permeable Reactive Barrier (PRB)
  - 300-ft-long upriver expansion PRB (injected 2011)
  - 300-ft-long central (original) PRB (injected 2006-2008)
  - 300-ft-long downriver expansion PRB (injected 2011)

100-NR-2 Apatite PRB

- Three sections shown within the "Previously Treated Segment" are the current treated portion of shoreline
  - Upriver extension (300 ft)
  - Original (central) barrier (300 ft)
  - Downriver extension (300 ft)
- Remaining "Untreated" segments are shown as
  - Upriver segment (~200 ft)
  - Downriver segment (~1400 ft)



	Total Wells	Monitoring Wells	Injection Wells	Injection Completed	Remain to be Injected	Injection Year
Original Barrier	22	4	18	18	0	2008
Upriver Expansion	41	6	35	24	11	2011
Downriver Expansion	138	19	111	24	87	2011
Expansion Total	171	25	146	48	98	Planned for 2014
Overall Total	191	29	162	162		--

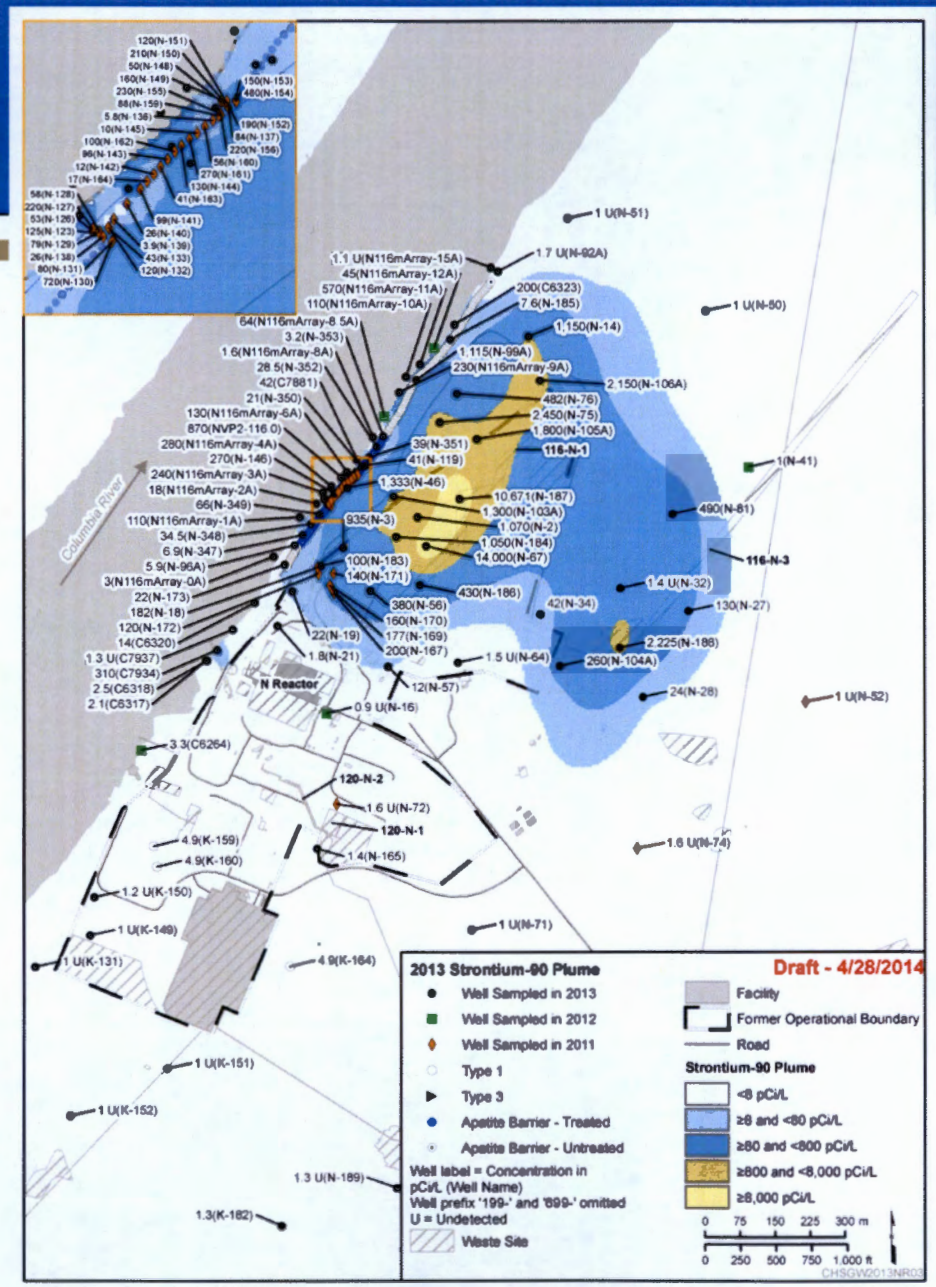
Note:
Basis for 2500 ft. APB:
Amended Record of Decision for 100-NR-1 and NR-2 Operable Units, Hanford Site – 100 Area, Benton County, Washington – September 2010 (which is the first regulatory requirement to expand the barrier length to 2,500 feet).

U.S. DEPARTMENT OF ENERGY

CH2MHILL
Plateau Remediation Company

2013 Sr-90 Plume

- 2013 groundwater plume is similar to that encountered in 1996 with concentrations lower today in the vicinity of the treated PRB
- Groundwater flow moves through the barrier to the river at 0.3 m/day, however the Sr-90 flux rate is approximately 0.002 m/day (0.09 inches/day)



U.S. DEPARTMENT OF ENERGY

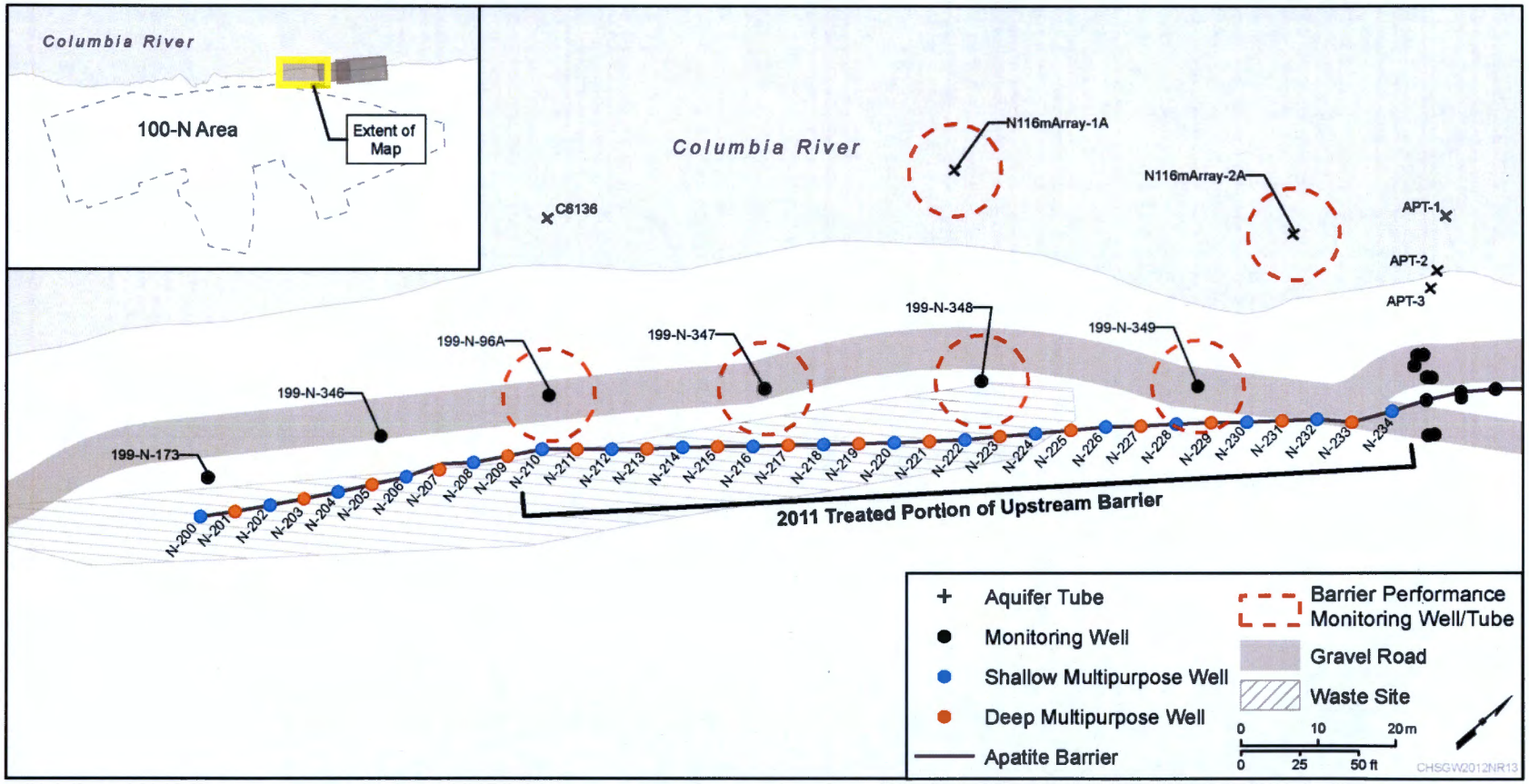
CH2MHILL Plateau Remediation Company

Performance Monitoring Apatite PRB

- Baseline established from pre-injection sampling results from monitoring wells
- Post-Injection performance monitoring of the entire treated portion of the PRB is performed twice a year
  - At low river stage in the fall (September)
  - At high river stage in the spring (June)
- Each section includes monitoring wells and aquifer tubes

Upriver Segment		Original Barrier		Downriver Segment	
MonWells	AqTubes	MonWells	AqTubes	MonWells	AqTubes
N-348	Array 1A	N-123	APT-1/ Array 3A	N-350	
N-349	Array 2A	N-146	Array 4A	N-351	C7881
N-347		N-122	NVP2-116.0	N-352	Array 8A
N-96A		N-147	APT-5/ Array 6A	N-353	

Upriver Segment Apatite Barrier Monitoring Wells and Aquifer Tubes



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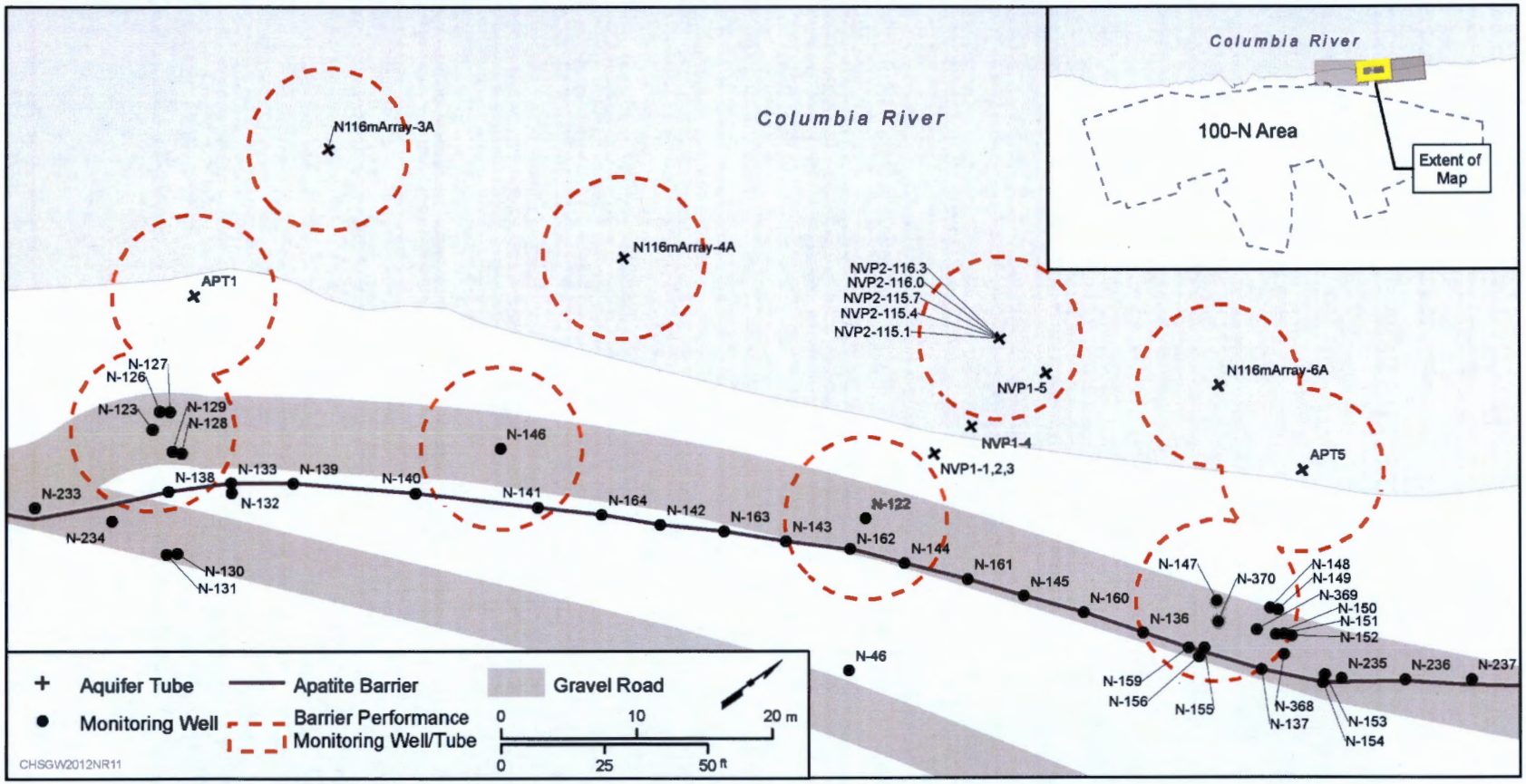
Plateau Remediation Company

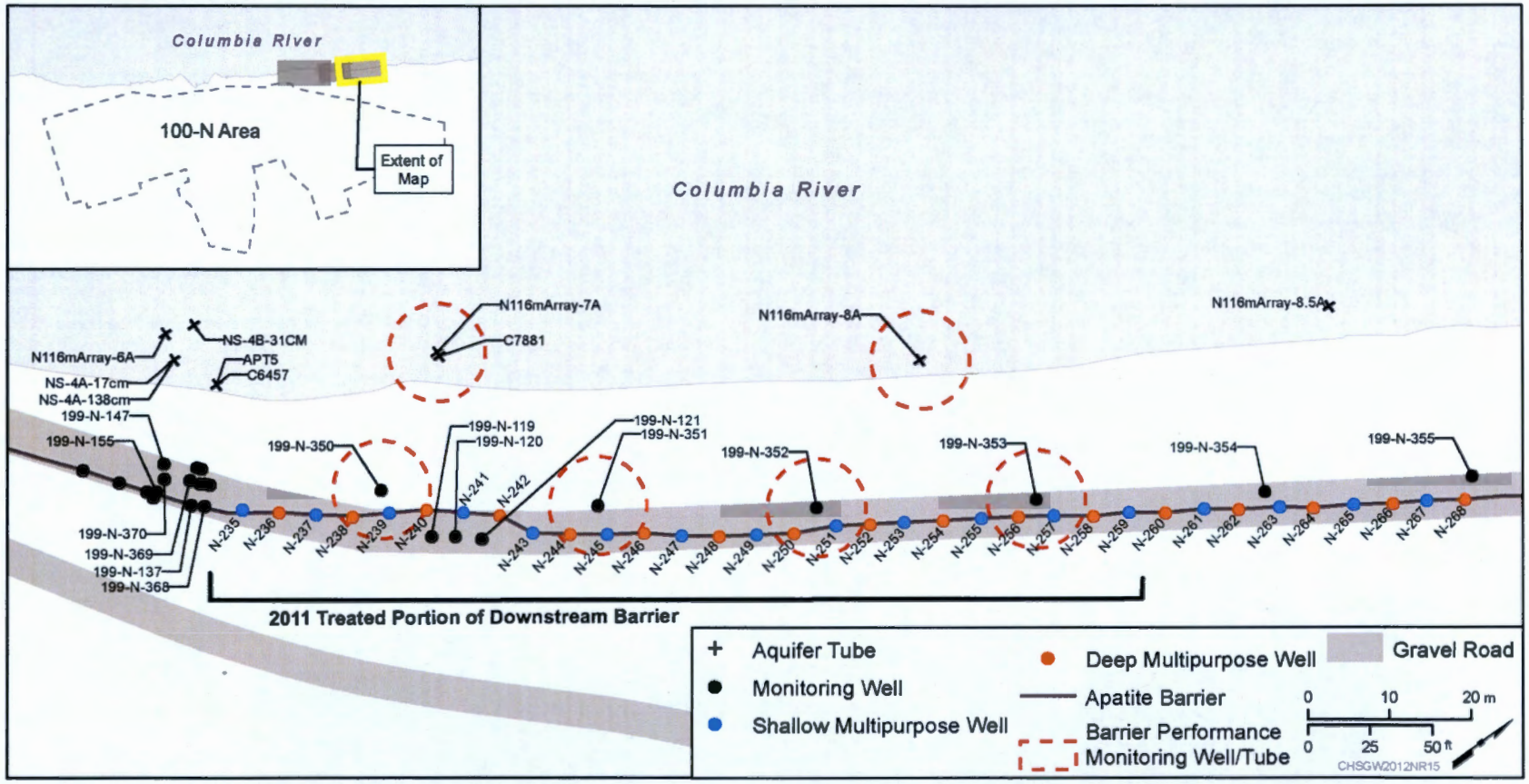
Central (Original) Apatite Barrier Monitoring Wells and Aquifer Tubes



U.S. DEPARTMENT OF ENERGY

CH2MHILL Plateau Remediation Company

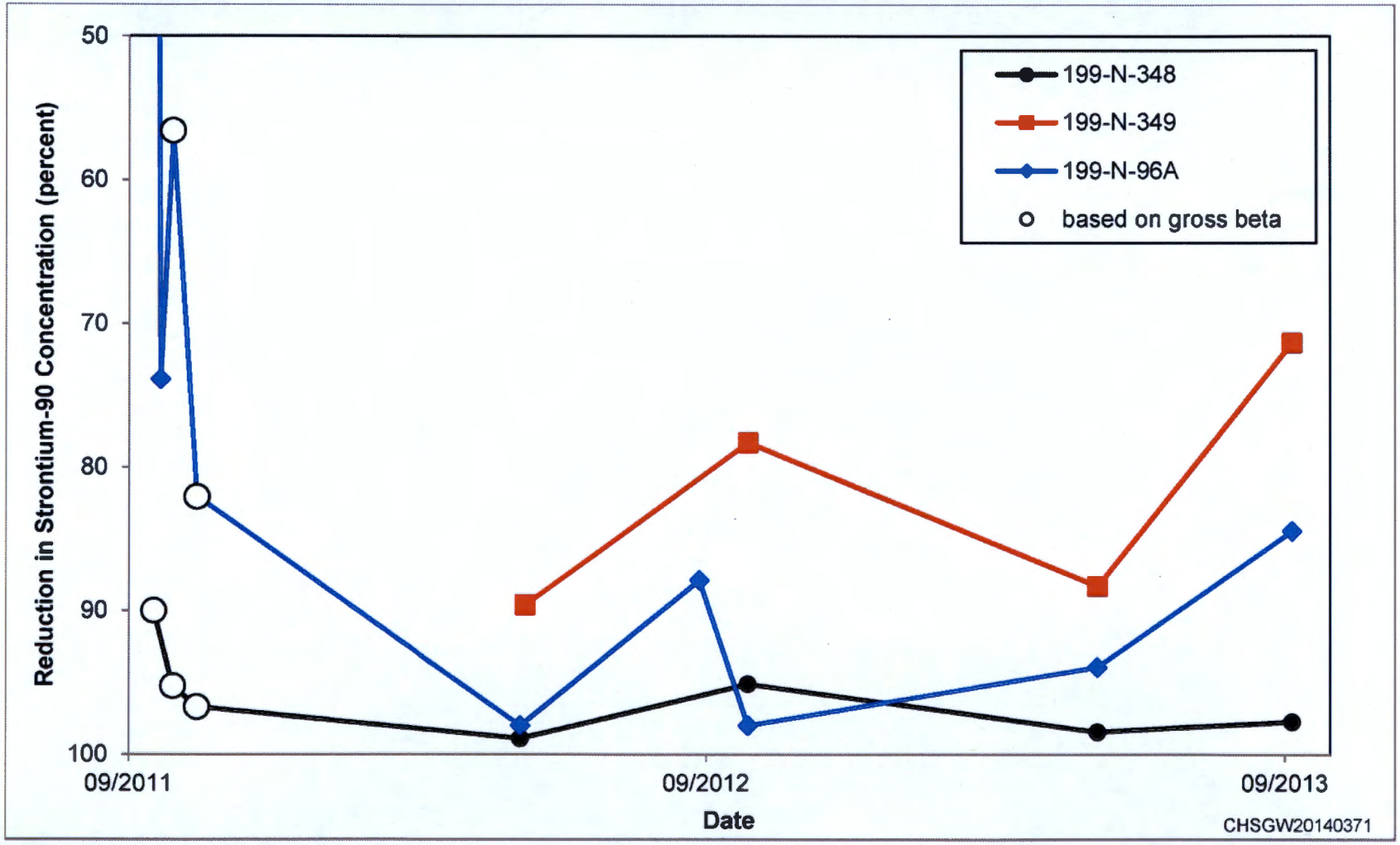
Downriver Segment Apatite Barrier Monitoring Wells and Aquifer Tubes



U.S. DEPARTMENT OF ENERGY

CH2MHILL Plateau Remediation Company

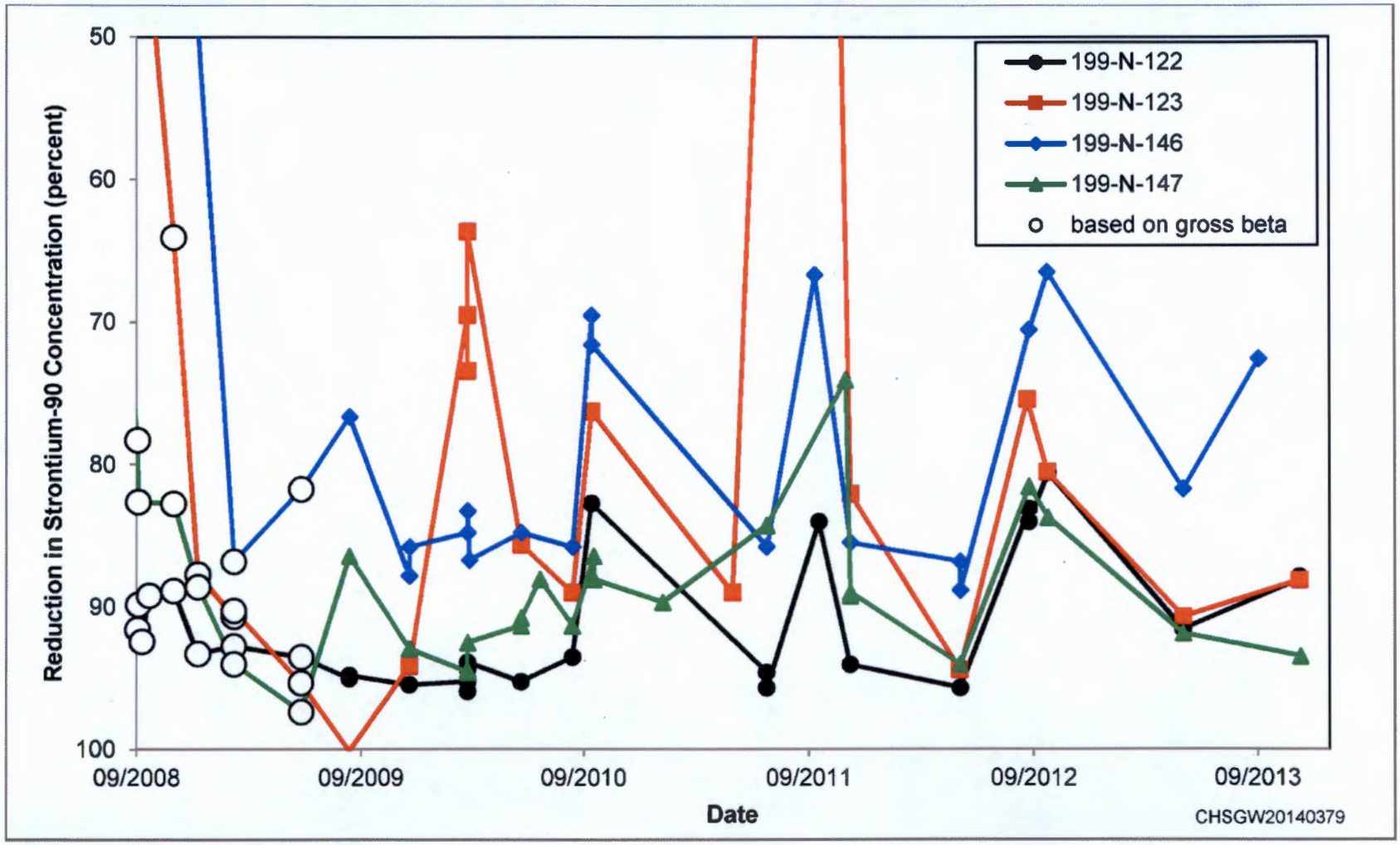
Percent Sr-90 Reduction in Monitoring Wells of Upriver PRB Segment



U.S. DEPARTMENT OF ENERGY

CH2MHILL Plateau Remediation Company

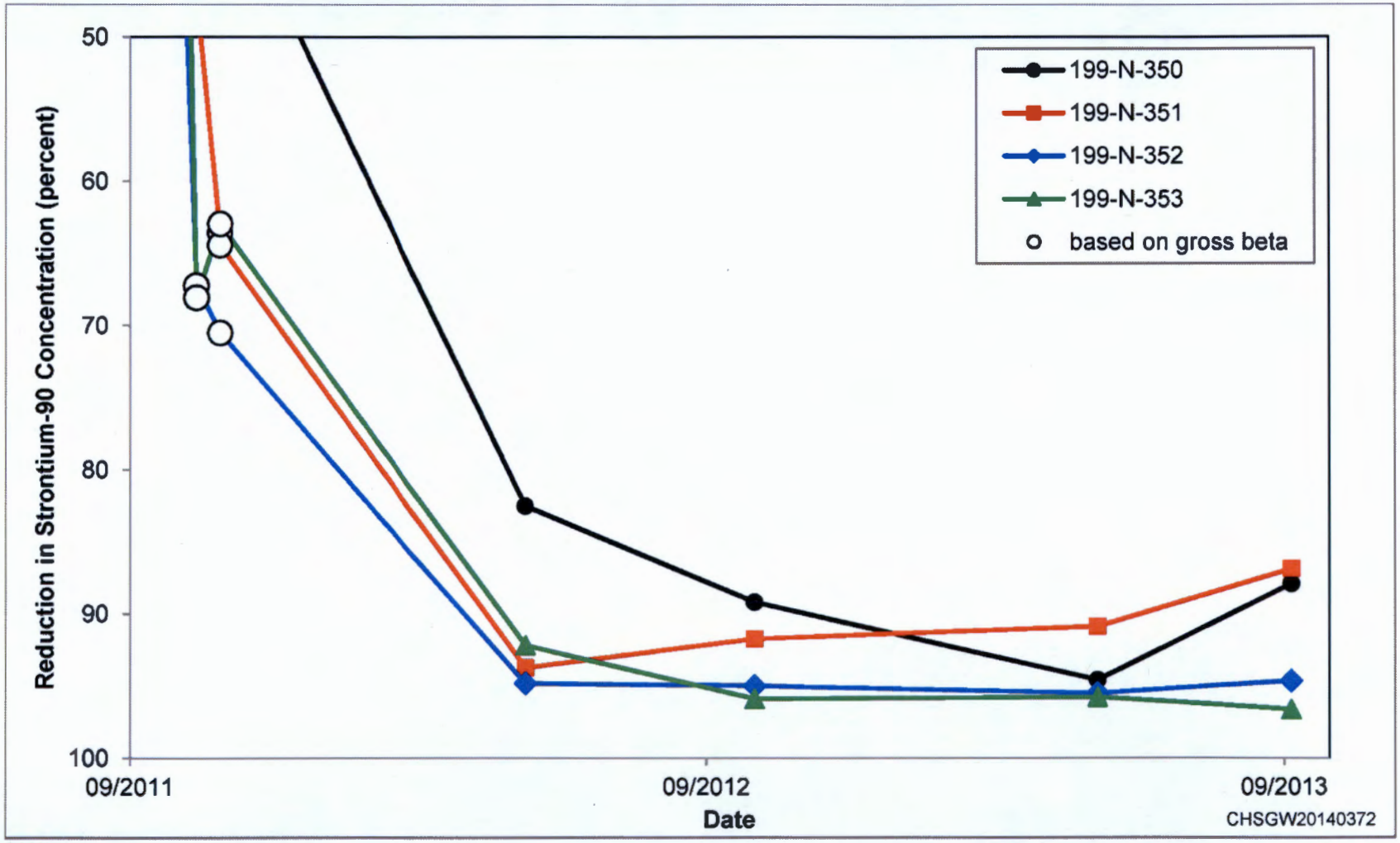
Percent Sr-90 Reduction in Monitoring Wells of Original PRB Segment



U.S. DEPARTMENT OF ENERGY

CH2MHILL Plateau Remediation Company

Percent Sr-90 Reduction in Monitoring Wells of Downriver PRB Segment



U.S. DEPARTMENT OF ENERGY

CH2MHILL Plateau Remediation Company

Sr-90 Monitoring Results through 2012 – Upriver PRB Segment

Performance of the Upriver Segment of the Apatite Barrier through 2012

Well Name	Sr-90 Concentration (pCi/L)							Percent Changes in Sr-90 Concentration, 2011 to 2012	Percent Reduction in Sr-90 Concentration (2012 Measurement)	
	Count	Min. Baseline	Max. Baseline	9/16/2011 Result*	9/28/2011 Result*	10/13/2011 Result*	9/27/2012 Result		Min. Baseline	Max. Baseline
199-N-96A	46	1.540	38	50	16	7	5	-32%	-199%	88%
199-N-347	1	7	7	170	21	7	10	39%	-43%	-43%
199-N-348	1	1,800	1,800	180	85.5	59.5	88	48%	95%	95%
199-N-349	1	220	230	495	176	118	50	-58%	77%	78%
Array-1A	13	0.8	64	80.0	1	249	75	—	—	—
Array-2A	18	12	360	950	448	184	36	—	—	—

* Results are based on gross beta concentrations divided by two to approximate strontium-90 concentrations.

Reference: DOE/RL-2013-13, *Calendar Year 2012 Annual Summary Report for the 100-HR-3 and 100-KR-4 Pump-and-Treat Operations, and 100-NR-2 Groundwater Remediation Operations*

Sr-90 Monitoring Results through 2012 – Original PRB Segment

Performance of the Central (Original) Segment of the Apatite Barrier Through 2012

Well Name	Sr-90 Concentration (pCi/L)						Percent Change in Sr-90 Concentration, 2009 to 2012	Percent Reduction in Sr-90 Concentration, 2012 Measurement	
	Min. Baseline[a]	Max. Baseline[a]	8/13/2009 Result[b]	8/15/2010 Result[b]	11/10/2011 Result	9/26/2012 Result		Min. Baseline	Max. Baseline
199-N-122	657	4,630	100	330	275	900	800%	-37%	81%
199-N-123	689	1,180	70	160	212	230	229%	67%	81%
199-N-146	318	985	85	170	143	330	288%	-4%	66%
199-N-147	522	1,842	65	200	201	300	362%	43%	84%

a. From Table 3.1 in PNNL-20252, *100-NR-2 Apatite Treatability Test: An Update on Barrier Performance.*

b. Results are based on gross-beta concentrations divided by two to approximate strontium-90 concentrations.

Reference: DOE/RL-2013-13, *Calendar Year 2012 Annual Summary Report for the 100-HR-3 and 100-KR-4 Pump-and-Treat Operations, and 100-NR-2 Groundwater Remediation Operations*

U.S. DEPARTMENT OF ENERGY

CH2MHILL Plateau Remediation Company

Sr-90 Monitoring Results through 2012 – Downriver PRB Segment

Performance of the Downriver Segment of the Apatite Barrier through 2012

Well Name	Sr-90 Concentration (pCi/L)							Percent Changes in Sr-90 Concentration, 2011 to 2012	Percent Reduction in Sr-90 Concentration (2012 Measurement)	
	Count	Min. Baseline	Max. Baseline	9/27/2011 Result*	10/13/2011 Result*	10/27/2011 Result*	9/27/2012 10/01/2012 Result		Min. Baseline	Max. Baseline
199-N-350	1	240	240	210	145	148	26	-75%	89%	89%
199-N-351	1	350	350	465	185	126	29	-92%	92%	92%
199-N-352	1	580	580	448	190	171	29	-88%	95%	95%
199-N-353	1	83	83	92	26.5	30.75	ND	-100%	100%	100%
C7881	2	320	350	2415	900	293	58	—	—	—
Array-8A	2	5	47	3.9	34	18	—	—	—	—

* Results are based on gross beta concentrations, which are divided by two to approximate strontium-90 concentrations.

ND = not detected

Reference: DOE/RL-2013-13, *Calendar Year 2012 Annual Summary Report for the 100-HR-3 and 100-KR-4 Pump-and-Treat Operations, and 100-NR-2 Groundwater Remediation Operations*

U.S. DEPARTMENT OF ENERGY

CH2MHILL Plateau Remediation Company

PRB Performance Monitoring, 2013

Performance Monitoring at the Apatite Permeable Reactive Barrier, 2013						
	Strontium-90 Concentration (pCi/L)					
					Percent Reduction in Strontium-90 (Baseline to Fall 2013) (a)	
Well Name	Minimum Detected Baseline	Maximum Baseline	Spring 2013 05/06/13	Fall 2013 09/06/13	Minimum Baseline	Maximum Baseline
Upriver Apatite Permeable Reactive Barrier						
199-N-96A	1.5	37.9	2.3	5.9	-283	84
199-N-347	7	7	8.5	5.8	17	17
199-N-348	1800	1800	28	41	98	98
199-N-349	220	230	27	66	70	71
Central (Original) Apatite Permeable Reactive Barrier						
199-N-122	657	4630	390, 390	550, 560	16	88
199-N-146	318	985	180	270	15	73
199-N-147	522	1842	150	120	77	93
199-N-123	689	1180	110	140	80	88
Downriver Apatite Permeable Reactive Barrier						
199-N-350	240	240	13	29	88	88
199-N-351	350	350	32	46	87	87
199-N-352	580	580	26	31	95	95
199-N-353	83	83	3.5	2.8	97	97

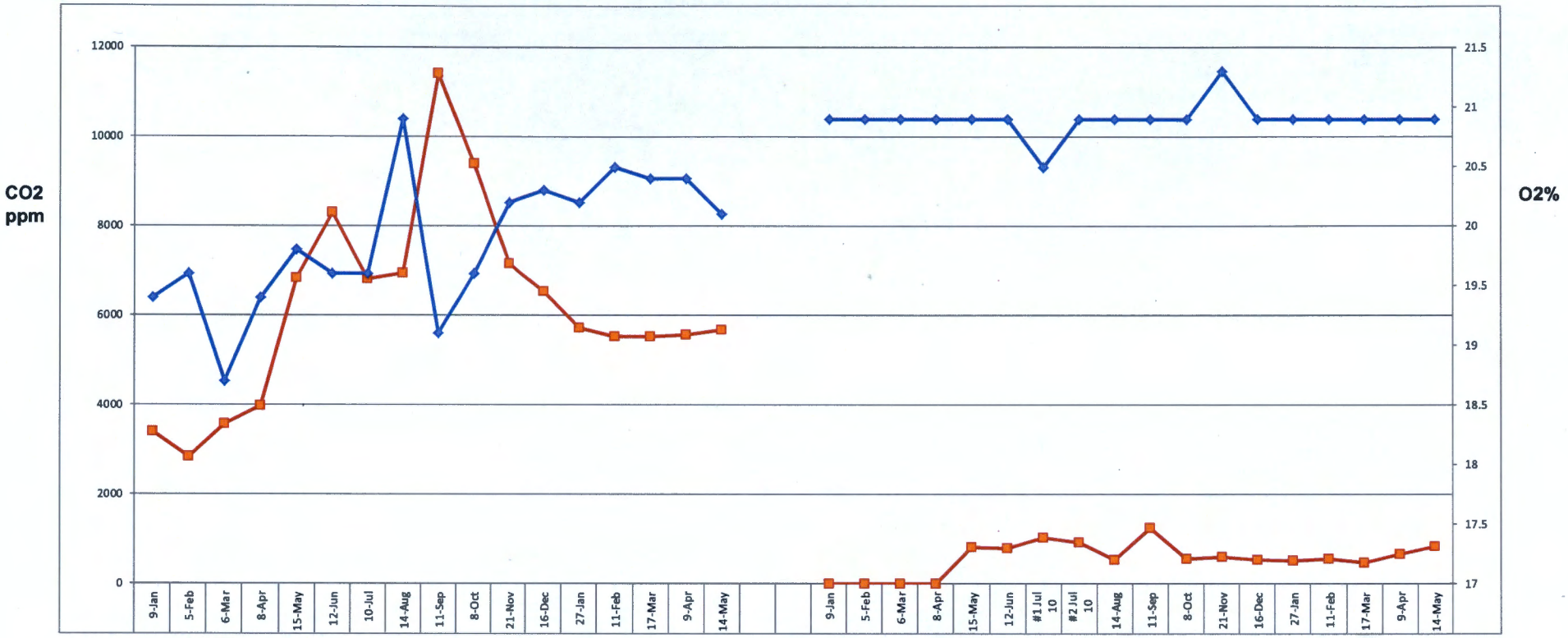
(a) The percent reduction in strontium-90 concentration is calculated as (([baseline value] – [Fall 2013 value])/[baseline value]) * 100.

Reference: DOE/RL-2014-25, *Draft, Calendar Year 2013 Annual Summary Report for the 100-HR-3 and 100-KR-4 Pump-and-Treat Operations, and 100-NR-2 Groundwater Remediation Operations*

U.S. DEPARTMENT OF ENERGY

CH2MHILL Plateau Remediation Company

Attachment 7



BIOVENT WELL SAMPLE RESULTS

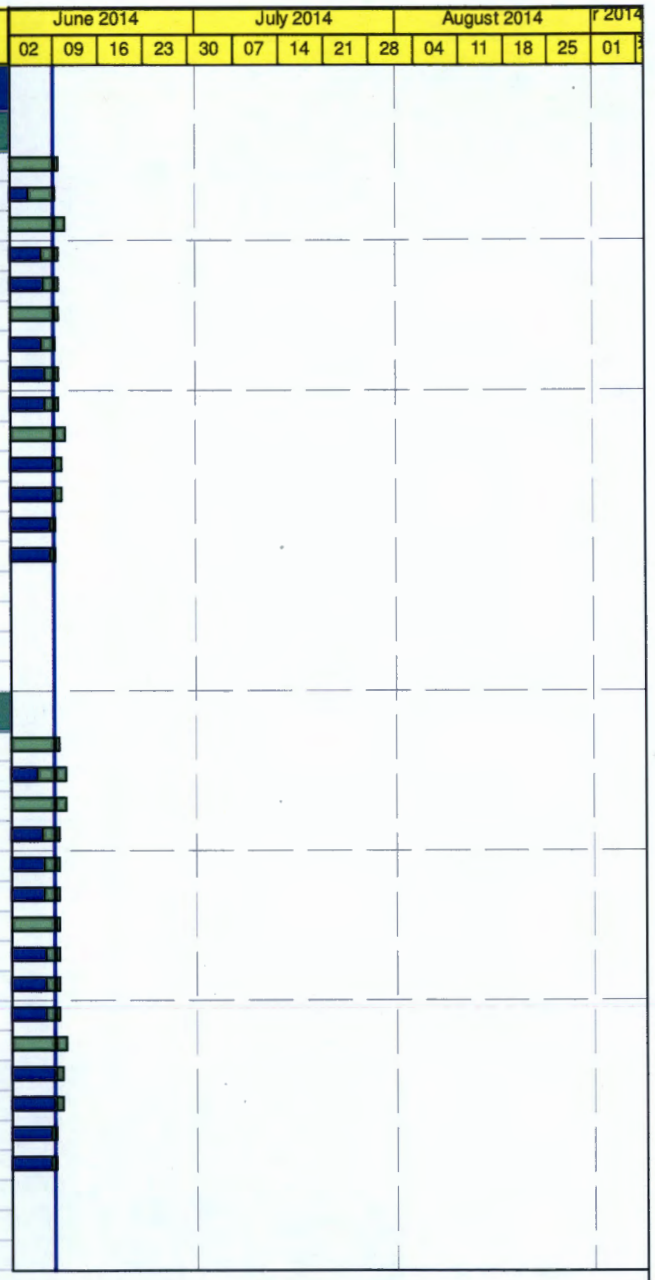
Well #	Date	O2%	CO2 ppm
199-N-171	9-Jan	19.4	3400
	5-Feb	19.6	2840
	6-Mar	18.7	3570
	8-Apr	19.4	3960
	15-May	19.8	6820
	12-Jun	19.6	8290
	10-Jul	19.6	6800
	14-Aug	20.9	6940
	11-Sep	19.1	11400
	8-Oct	19.6	9380
	21-Nov	20.2	7160
	16-Dec	20.3	6520
	27-Jan	20.2	5720
	11-Feb	20.5	5520
	17-Mar	20.4	5520
	9-Apr	20.4	5560
	14-May	20.1	5670

Well #	Date	O2%	CO2 ppm
199-N-169	9-Jan	20.9	0
	5-Feb	20.9	0
	6-Mar	20.9	0
	8-Apr	20.9	0
	15-May	20.9	800
	12-Jun	20.9	780
	#1 Jul 10	20.5	1020
	#2 Jul 10	20.9	920
	14-Aug	20.9	530
	11-Sep	20.9	1250
	8-Oct	20.9	550
	21-Nov	21.3	600
	16-Dec	20.9	530
	27-Jan	20.9	500
	11-Feb	20.9	550
	17-Mar	20.9	470
	9-Apr	20.9	660
	14-May	20.9	840

O2% CO2 ppm

Attachment 8

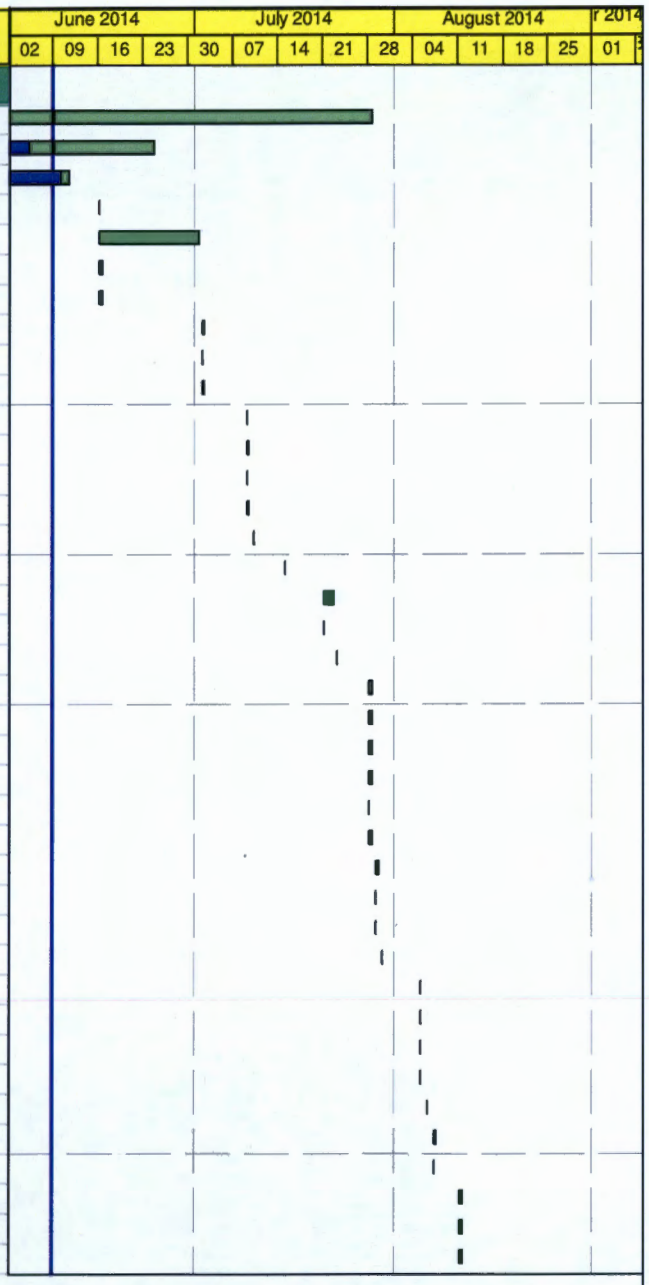
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
FY13 CPP 100-N AREA CURRENT					
Excavation					
NB5B8A	Excavation - 100-N-84:6 (12,721 BCM)	27%	1	10-Apr-13 A	09-Jun-14
NB5B4D08	Excavation over IPB - 100-N-84:2 (20,819 BCM)	99%	0	17-Apr-13 A	09-Jun-14
NB5B7A	Excavation - 100-N-84:5 (39,722 BCM)	34%	2	03-Jul-13 A	10-Jun-14
NB596A	Excavation - 120-N-4 (646.86 BCM)	99%	1	08-Oct-13 A	09-Jun-14
NB5B1A	Excavation - 100-N-81 (690 BCM)	99%	1	22-Oct-13 A	09-Jun-14
NB5A3A	Excavation - 100-N-101 (132.36 BCM)	67%	1	05-Nov-13 A	09-Jun-14
NB590A	Excavation - 100-N-91 (4.05 BCM)	99%	0	12-Nov-13 A	09-Jun-14
NB5093A	Excavation - 100-N-97 (10.09 BCM)	99%	1	12-Nov-13 A	09-Jun-14
NB595A	Excavation - 100-N-100 (89.58 BCM)	99%	1	13-Nov-13 A	09-Jun-14
NB5B6A	Excavation - 100-N-84:4 (8,348 BCM)	49%	2	02-Dec-13 A	10-Jun-14
NB591A	Excavation - 100-N-94 (51.34 BCM)	99%	1	31-Jan-14 A	10-Jun-14
NB594A	Excavation - 100-N-99 (40.33 BCM)	99%	1	31-Jan-14 A	10-Jun-14
NB5C7A	Excavation - 100-N-104 (49 BCM)	99%	0	12-Mar-14 A	09-Jun-14
NB583A	Excavation - 100-N-82	99%	0	24-Mar-14 A	09-Jun-14
NB5C3A	Excavation - 100-N-96 (2600 BCM)	0%	6	01-Oct-14*	09-Oct-14
NB5B2A	Excavation - 100-N-83 (20,659 BCM)	0%	30	13-Oct-14	04-Dec-14
NB5B6A60	Design - 100-N-107 (Final ROD)	0%	55	01-Oct-15*	13-Jan-16
NB5B6A10	Excavation - 100-N-107 (Final ROD)	0%	16	09-Jun-16	07-Jul-16
Loadout					
NB5B8B	Loadout - 100-N-84:6 (27,987 UST)	27%	1	10-Apr-13 A	09-Jun-14
NB5B4D09	Loadout over IPB - 100-N-84:2 (45,800 UST)	99%	2	17-Apr-13 A	10-Jun-14
NB5B7B	Loadout - 100-N-84:5 (87,389 UST)	34%	2	11-Jul-13 A	10-Jun-14
NB596B	Loadout - 120-N-4 (1,379.16 UST)	99%	1	08-Oct-13 A	09-Jun-14
NB5B1B	Loadout - 100-N-81 (1,518.0 UST)	99%	1	22-Oct-13 A	09-Jun-14
NB584D10	Loadout- 100-N-54 (500 UST)	99%	1	04-Nov-13 A	09-Jun-14
NB5A3B	Loadout - 100-N-101 (220.0 UST)	67%	1	05-Nov-13 A	09-Jun-14
NB590B	Loadout - 100-N-91 (0.71 UST)	99%	1	12-Nov-13 A	09-Jun-14
NB5093B	Loadout - 100-N-97 (5.94 UST)	99%	1	12-Nov-13 A	09-Jun-14
NB595B	Loadout - 100-N-100 (49.5 UST)	99%	1	13-Nov-13 A	09-Jun-14
NB5B6B	Loadout - 100-N-84:4 (18,366 UST)	49%	2	02-Dec-13 A	10-Jun-14
NB591B	Loadout - 100-N-94 (49.5 UST)	99%	1	31-Jan-14 A	10-Jun-14
NB594B	Loadout - 100-N-99 (42.1 UST)	99%	1	31-Jan-14 A	10-Jun-14
NB5C7B	Loadout - 100-N-104 (108 UST)	99%	0	12-Mar-14 A	09-Jun-14
NB583B	Loadout - 100-N-82	99%	0	24-Mar-14 A	09-Jun-14
NB5C3B	Loadout - 100-N-96 (2,943 UST)	0%	6	01-Oct-14	09-Oct-14
NB5B2B	Loadout - 100-N-83 (45,451 UST)	0%	30	13-Oct-14	04-Dec-14
NB5B6A20	Loadout - 100-N-107 (Final ROD)	0%	16	09-Jun-16	07-Jul-16



Actual Work ◆ Milestóne ◆ Actual Milestone
Remaining Work % Complete

Data Date: 09-Jun-14

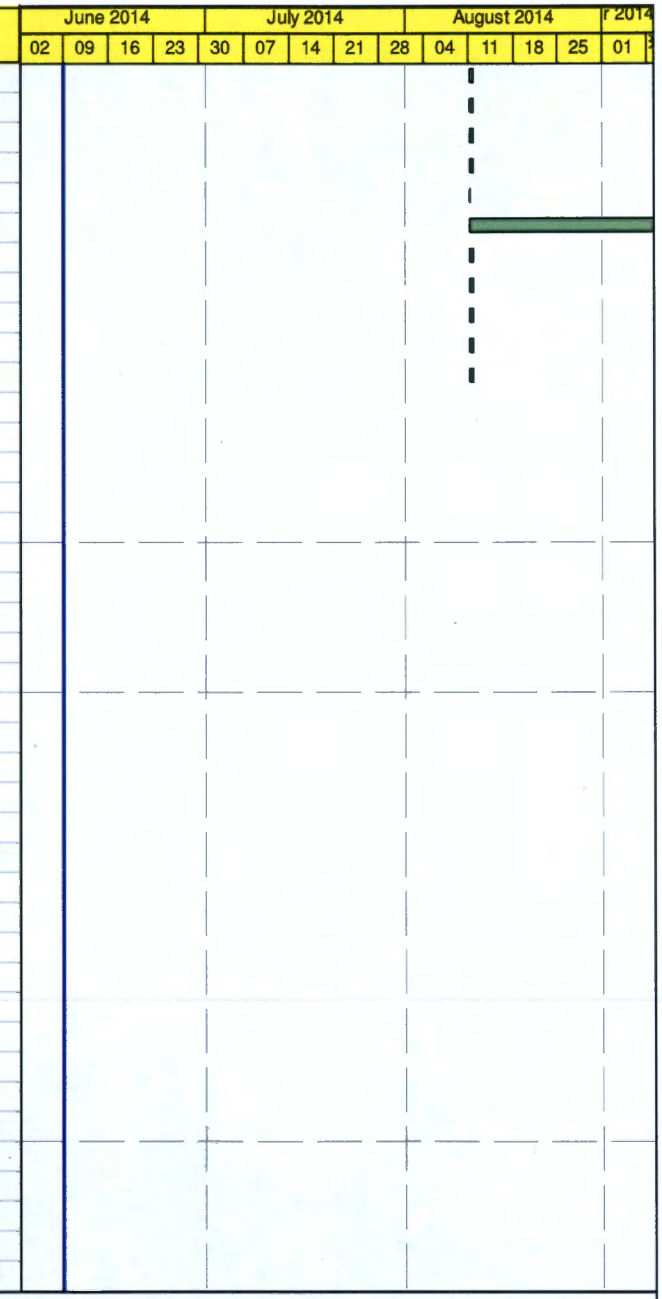
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
Backfill					
NB525C	Backfill - 100-N-61 (incl 100-N-64) 112,271 BCMs	7%	28	20-Jan-14 A	28-Jul-14
NB578C10	Backfill - 100-N-63	87%	10	27-Jan-14 A	24-Jun-14
NB528C	Backfill - 116-N-2	99%	3	05-Feb-14 A	11-Jun-14
NB578C30	Backfill - 100-N-63 (39,518 BCMs)	0%	10	16-Jun-14*	01-Jul-14
NB578C20	Backfill - 100-N-63 AUW	0%	10	16-Jun-14	01-Jul-14
NB537C	Backfill - 124-N-3 (0 BCMs)	0%	1	16-Jun-14	16-Jun-14
NB517C	Backfill - 100-N-36 (0 BCMs)	0%	1	16-Jun-14	16-Jun-14
NB573C	Backfill - UPR-100-N-5 (0 BCMs)	0%	1	02-Jul-14	02-Jul-14
NB528C10	Backfill - 116-N-2 (12,010 BCMs)	0%	3	02-Jul-14	08-Jul-14
NB560C	Backfill - UPR-100-N-25 (0 BCMs)	0%	1	02-Jul-14	02-Jul-14
NB565C	Backfill - UPR-100-N-31 (5,872 BCMs)	0%	1	09-Jul-14	09-Jul-14
NB570C	Backfill - UPR-100-N-4 (63 BCMs)	0%	1	09-Jul-14	09-Jul-14
NB539C	Backfill - 124-N-9 (0 BCMs)	0%	1	09-Jul-14	09-Jul-14
NB576C	Backfill - UPR-100-N-8 (28 BCMs)	0%	1	09-Jul-14	09-Jul-14
NB535C	Backfill - 124-N-10 (9,978 BCMs)	0%	2	10-Jul-14	14-Jul-14
NB541C	Backfill - 130-N-1 (10,000 BCMs)	0%	3	15-Jul-14	17-Jul-14
NB568C10	Backfill - UPR-100-N-36 AUW	0%	2	21-Jul-14	22-Jul-14
NB568C	Backfill - UPR-100-N-36 (8,153 BCMs)	0%	2	21-Jul-14	22-Jul-14
NB529C	Backfill - 116-N-4 (5,951 BCMs)	0%	2	23-Jul-14	24-Jul-14
NB545C	Backfill - UPR-100-N-1 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB554C	Backfill - UPR-100-N-2 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB564C	Backfill - UPR-100-N-30 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB562C	Backfill - UPR-100-N-29 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB521C	Backfill - 100-N-57 (4,296 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB566C	Backfill - UPR-100-N-32 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB577C	Backfill - UPR-100-N-9 (0 BCMs)	0%	1	29-Jul-14	29-Jul-14
NB550C	Backfill - UPR-100-N-14 (182 BCMs)	0%	1	29-Jul-14	29-Jul-14
NB567C	Backfill - UPR-100-N-35 (170 BCMs)	0%	1	29-Jul-14	29-Jul-14
NB531C	Backfill - 118-N-1 (11,549 BCMs)	0%	3	30-Jul-14	04-Aug-14
NB542C	Backfill - 1908-N (0 BCMs)	0%	1	05-Aug-14	05-Aug-14
NB587C	Backfill - 100-N-79 (672.58 BCM)	0%	1	05-Aug-14	05-Aug-14
NB5C1C	Backfill - 100-N-84:8 (0 BCM)	0%	1	05-Aug-14	05-Aug-14
NB536C	Backfill - 124-N-2 (1,554 BCMs)	0%	1	05-Aug-14	05-Aug-14
NB592C	Backfill - 100-N-62 (3,563 BCM)	0%	1	06-Aug-14	06-Aug-14
NB508C	Backfill - 100-N-24 (0 BCMs)	0%	1	07-Aug-14	07-Aug-14
NB593C	Backfill - 100-N-28 (2,504 BCM)	0%	1	07-Aug-14	07-Aug-14
NB563C	Backfill - UPR-100-N-3 (0 BCMs)	0%	1	11-Aug-14	11-Aug-14
NB586C	Backfill - 100-N-68 (0 BCM)	0%	1	11-Aug-14	11-Aug-14
NB575C	Backfill - UPR-100-N-7 (0 BCMs)	0%	1	11-Aug-14	11-Aug-14



Actual Work ◆ Milestone ◆ Actual Milestone
Remaining Work % Complete

Data Date: 09-Jun-14

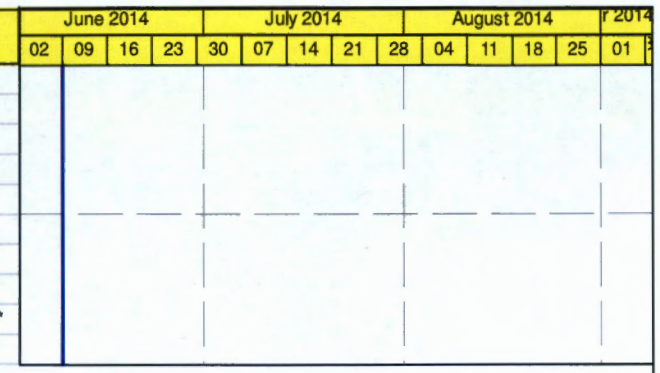
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
NB511C	Backfill - 100-N-29 (0 BCMs)	0%	1	11-Aug-14	11-Aug-14
NB512C	Backfill - 100-N-30 (0 BCMs)	0%	1	11-Aug-14	11-Aug-14
NB518C	Backfill - 100-N-37 (0 BCMs)	0%	1	11-Aug-14	11-Aug-14
NB513C	Backfill - 100-N-31 (0 BCMs)	0%	1	11-Aug-14	11-Aug-14
NB525C21	Backfill - 100-N-61 (incl 100-N-64) 112,271 BCMs	0%	28	11-Aug-14	29-Sep-14
NB525C11	Backfill - 100-N-61 (incl 100-N-64) AUW	0%	28	11-Aug-14*	29-Sep-14
NB548C	Backfill - UPR-100-N-12 (0 BCMs)	0%	1	11-Aug-14	11-Aug-14
NB569C	Backfill - UPR-100-N-39 (0 BCMs)	0%	1	11-Aug-14	11-Aug-14
NB546C	Backfill - UPR-100-N-10 (0 BCMs)	0%	1	11-Aug-14	11-Aug-14
NB514C	Backfill - 100-N-32 (0 BCMs)	0%	1	11-Aug-14	11-Aug-14
NB519C	Backfill - 100-N-38 (0 BCMs)	0%	1	11-Aug-14	11-Aug-14
NB532C	Backfill - 120-N-3 (3,915 BCMs)	0%	1	30-Sep-14	30-Sep-14
NB507C	Backfill - 100-N-23 (3,588 BCMs)	0%	1	01-Oct-14	01-Oct-14
NB510C	Backfill - 100-N-26 (276 BCMs)	0%	1	01-Oct-14	01-Oct-14
NB558C	Backfill - UPR-100-N-23 (0 BCMs)	0%	1	02-Oct-14	02-Oct-14
NB506C	Backfill - 100-N-22 (866 BCMs)	0%	1	02-Oct-14	02-Oct-14
R120N37	Backfill - 120-N-7 (145 BCMs)	0%	1	02-Oct-14	02-Oct-14
NB572C	Backfill - UPR-100-N-43 (0 BCMs)	0%	1	02-Oct-14	02-Oct-14
NB557C	Backfill - UPR-100-N-22 (0 BCMs)	0%	1	02-Oct-14	02-Oct-14
NB553C	Backfill - UPR-100-N-19 (4,577 BCMs)	0%	2	02-Oct-14	06-Oct-14
NB534C	Backfill - 124-N-1 (597 BCMs)	0%	1	02-Oct-14	02-Oct-14
NB556C	Backfill - UPR-100-N-21 (0 BCMs)	0%	3	02-Oct-14	07-Oct-14
NB5092C	Backfill - 100-N-95 (2,158.57 BCM)	0%	1	06-Oct-14	06-Oct-14
NB599C	Backfill - 100-N-86 (1030 BCM)	0%	1	06-Oct-14	06-Oct-14
NB5C7C	Backfill - 100-N-104 (612 BCM)	0%	1	07-Oct-14	07-Oct-14
NB5B8C	Backfill - 100-N-84:6 (3,636 BCM)	0%	1	07-Oct-14	07-Oct-14
NB555C	Backfill - UPR-100-N-20	0%	1	08-Oct-14	08-Oct-14
NB552C	Backfill - UPR-100-N-18 (13,025 BCMs)	0%	8	08-Oct-14	21-Oct-14
NB559C	Backfill - UPR-100-N-24	0%	1	08-Oct-14	08-Oct-14
NB574C	Backfill - UPR-100-N-6 (0 BCMs)	0%	1	22-Oct-14	22-Oct-14
NB522C	Backfill - 100-N-59 (0 BCMs)	0%	1	22-Oct-14	22-Oct-14
NB596C	Backfill - 120-N-4 (956 BCM)	0%	1	22-Oct-14	22-Oct-14
NB509C	Backfill - 100-N-25 (333 BCMs)	0%	1	22-Oct-14	22-Oct-14
NB5B4C	Backfill - 100-N-84:2 (40,909 BCM)	0%	10	23-Oct-14	10-Nov-14
NB5A1C	Backfill - 100-N-93 (0 BCM)	0%	1	27-Oct-14	27-Oct-14
NB5B7C	Backfill - 100-N-84:5 (13,636 BCM)	0%	4	11-Nov-14	17-Nov-14
NB5B6C	Backfill - 100-N-84:4 (4,545 BCM)	0%	2	18-Nov-14	19-Nov-14
NB583C	Backfill - 100-N-82	0%	1	20-Nov-14	20-Nov-14
NB5B1C	Backfill - 100-N-81 (659.98 BCM)	0%	1	24-Nov-14	24-Nov-14
NB591C	Backfill - 100-N-94 (49.11BCM)	0%	1	24-Nov-14	24-Nov-14
NB590C	Backfill - 100-N-91 (3.87 BCM)	0%	1	24-Nov-14	24-Nov-14



Actual Work ◆ ◆ Milestone ◆ ◆ Actual Milestone
Remaining Work % Complete

Data Date: 09-Jun-14

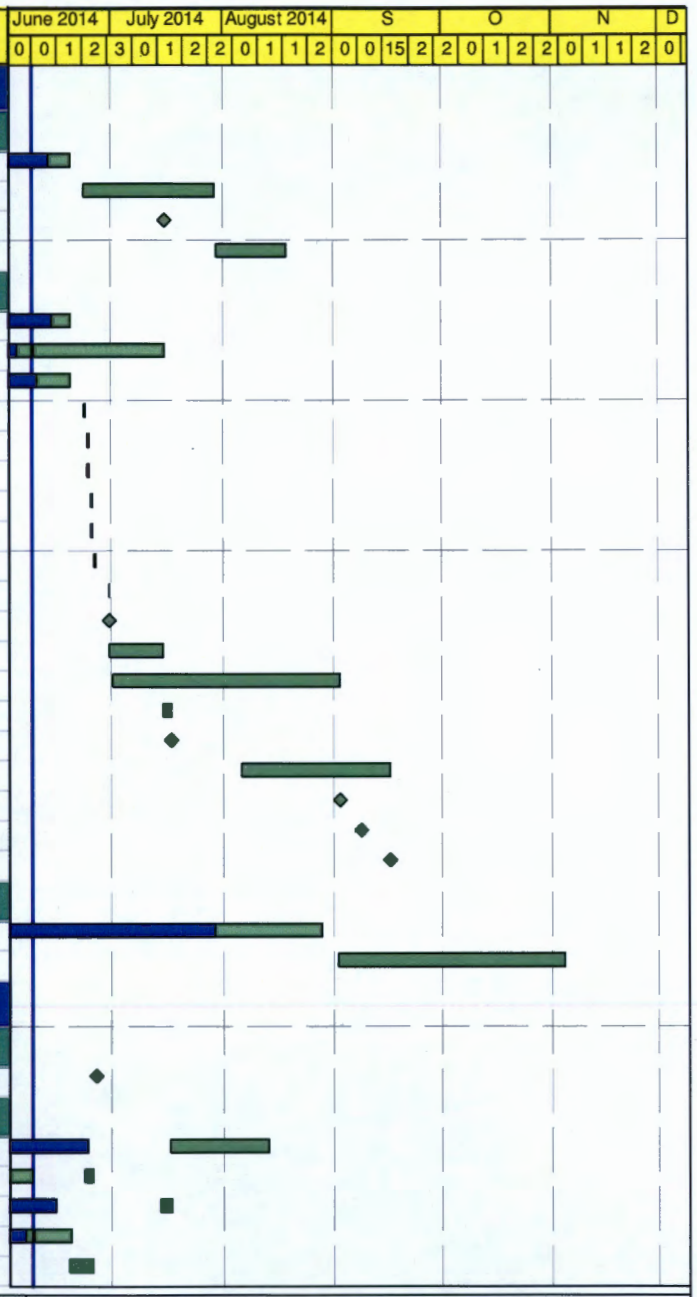
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
NB597C	Backfill - 628-2 (709 BCM)	0%	1	24-Nov-14	24-Nov-14
NB595C	Backfill - 100-N-100 (85.69 BCM)	0%	1	24-Nov-14	24-Nov-14
NB594C	Backfill - 100-N-99 (38.58 BCM)	0%	1	24-Nov-14	24-Nov-14
NB5A4C	Backfill - 600-340 (1,909 BCM)	0%	1	24-Nov-14	24-Nov-14
NB5093C	Backfill - 100-N-97 (9.65 BCM)	0%	1	24-Nov-14	24-Nov-14
NB5A3C	Backfill - 100-N-101 (126.6 BCM)	0%	1	24-Nov-14	24-Nov-14
NB5C3C	Backfill - 100-N-96 (2600 BCM)	0%	1	22-Jul-15	22-Jul-15
NB5B2C	Backfill - 100-N-83 (20,659 BCM)	0%	5	22-Sep-15	29-Sep-15
PROJMS3	100-N Backfill Complete	0%	0		29-Sep-15*
NB5B6A30	Backfill - 100-N-107 (Final ROD)	0%	4	09-May-17	15-May-17



Actual Work ◆ ◆ Milestone ◆ ◆ Actual Milestone
Remaining Work % Complete

Data Date: 09-Jun-14

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
100 D					
Excavation					
CBB0556A	Excavate 147-D ISRM Pond (20,000 BCM) Direct Loadout	92%	8	08-Apr-14 A	19-Jun-14
CBB751A20	Exc Process - 100-B-35	0%	21	23-Jun-14	29-Jul-14
DMS070A	Excavation Campaign Complete 100D	0%	0		15-Jul-14
CBB0558A	Excavate 100-D-75:1	0%	11	30-Jul-14	18-Aug-14
Loadout					
CBB0556B	Loadout 147-D ISRM Pond	92%	8	16-Apr-14 A	19-Jun-14
CBB0544B	Loadout 100-D-85:2 (RAD) OrangeCans	42%	21	06-May-14 A	15-Jul-14
CBB0543B10	Loadout 100-D-100	70%	8	19-May-14 A	19-Jun-14
CBB0535B	Loadout 100-D-69 - (1,538 Tons) MHVs	0%	1	23-Jun-14	23-Jun-14
CBB0543B	Loadout 100-D-84:2 280 Tons)	0%	1	24-Jun-14	24-Jun-14
CBB0513B1	Loadout 1607-D2:5 (112 Tons)	0%	1	24-Jun-14	24-Jun-14
CBB0548B	Loadout 100-D-97 - 45 Tons)	0%	1	25-Jun-14	25-Jun-14
CBB0541B	Loadout 100-D-83:3 - 174 Tons)	0%	1	25-Jun-14	25-Jun-14
CBB0550B	Loadout 100-D-99 - (281 Tons) MHVs	0%	1	26-Jun-14	26-Jun-14
CBB0547B	Loadout 100-D-96:2 - (3 Tons) MHVs	0%	1	30-Jun-14	30-Jun-14
DMS080A	Loadout Campaign Complete (Super Dumps) 100D	0%	0		30-Jun-14
CBB0516G	Loadout 100-D-31:11&12	0%	8	30-Jun-14	15-Jul-14
CBB751A30	Loadout - 100-B-35	0%	34	01-Jul-14	02-Sep-14
CBB0534B	Loadout 100-D-81 5,318 Tons	0%	2	15-Jul-14	17-Jul-14
DMS090A	Loadout Campaign Complete (ERDF Containers) 100D	0%	0		17-Jul-14
CBB0558B	Loadout 100-D-75:1	0%	23	06-Aug-14	16-Sep-14
DMS080A20	Loadout Campaign Complete 100-B-35	0%	0		02-Sep-14
DMS090B	Loadout Campaign Complete (ERDF Containers) 100H	0%	0		08-Sep-14
DMS080A30	Loadout Campaign Complete 100-D-75:1	0%	0		16-Sep-14
Non Site Specific Support					
RDCONT5323	100-D Exit Items	85%	47	10-Feb-14 A	28-Aug-14
RDCONT5393	Demobilization from Partial D-Mac and 100-H Area trailer and a	0%	37	02-Sep-14*	04-Nov-14
100 H					
Excavation					
DMS070B	Excavation Campaign Complete 100H	0%	0		26-Jun-14
Loadout					
HB511B04	Loadout 100-H-28:2	84%	16	02-Oct-13 A	13-Aug-14
HB513B4	Loadout 100-H-28:4 2,202 Tons	6%	3	24-Feb-14 A	25-Jun-14
HB528B	Loadout 100-H-59 (16,903 Tons)	68%	4	08-Apr-14 A	17-Jul-14
HB515B	Loadout 100-H-42 Orange Cans	28%	8	02-Jun-14 A	19-Jun-14
HB528B10	Loadout 100-H-59	0%	4	19-Jun-14*	25-Jun-14



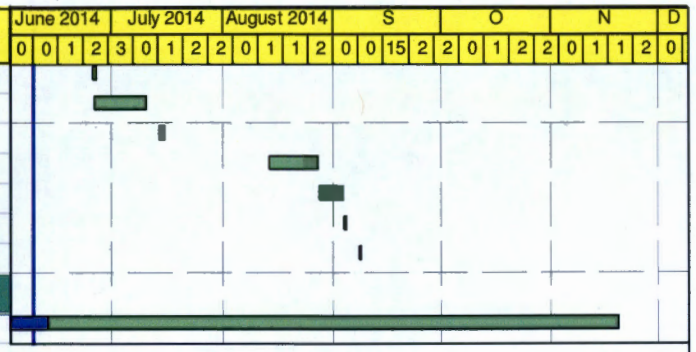
SPIF Bar | Remaining Work | Critical Remaining Work
Actual Work | Actual Critical Work | Remaining Level of Effort

Data Date: 09-Jun-14

CPP 100-H - Current after FR-539...

TASK filter: 100-DH POW Content.

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
HB520B	Loadout 100-H-51:2 (Direct Load - 336 Tons) BlueDot	0%	1	25-Jun-14	26-Jun-14
HB514B	Loadout 100-H-28:5 (Blue Dot - 4,096 Tons)	0%	8	26-Jun-14	10-Jul-14
HB519B	Loadout 100-H-48 951 Tons	0%	2	14-Jul-14	15-Jul-14
HB512B11	Loadout 100-H-28:3 BlueDot	0%	8	14-Aug-14	27-Aug-14
HB516B	Loadout 100-H-43 (1,803 Tons)	0%	3	28-Aug-14	03-Sep-14
HB525B	Loadout 100-H-51:1 (686 Tons)	0%	1	04-Sep-14	04-Sep-14
HB526B10	Loadout 100-H-51:6 (1,676 Tons)	0%	1	08-Sep-14	08-Sep-14
Non Site Specific Support					
HNSSETC2	100-H Exit Items	35%	93	19-Mar-14 A	19-Nov-14



SPIF Bar | Remaining Work | Critical Remaining Work
Actual Work | Actual Critical Work | Remaining Level of Effort

Data Date: 09-Jun-14

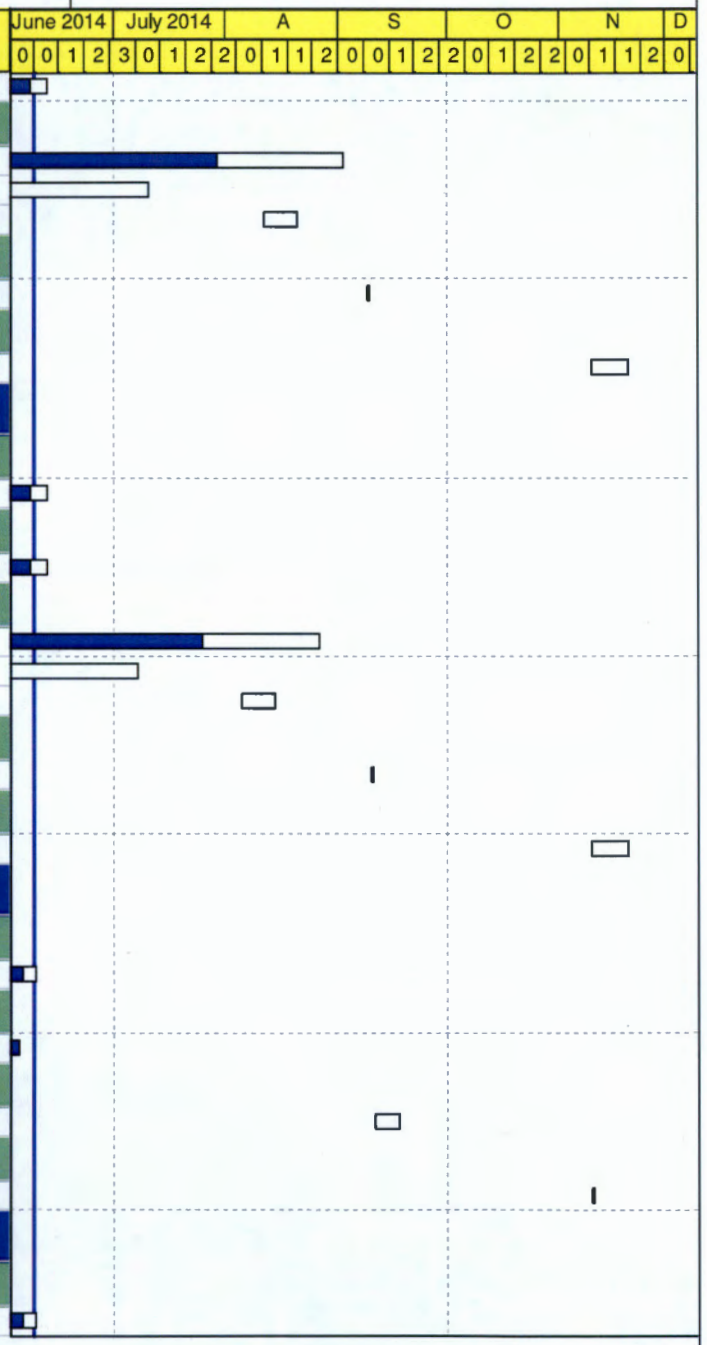
CPP 100-H - Current after FR-539...

TASK filter: 100-DH POW Content.

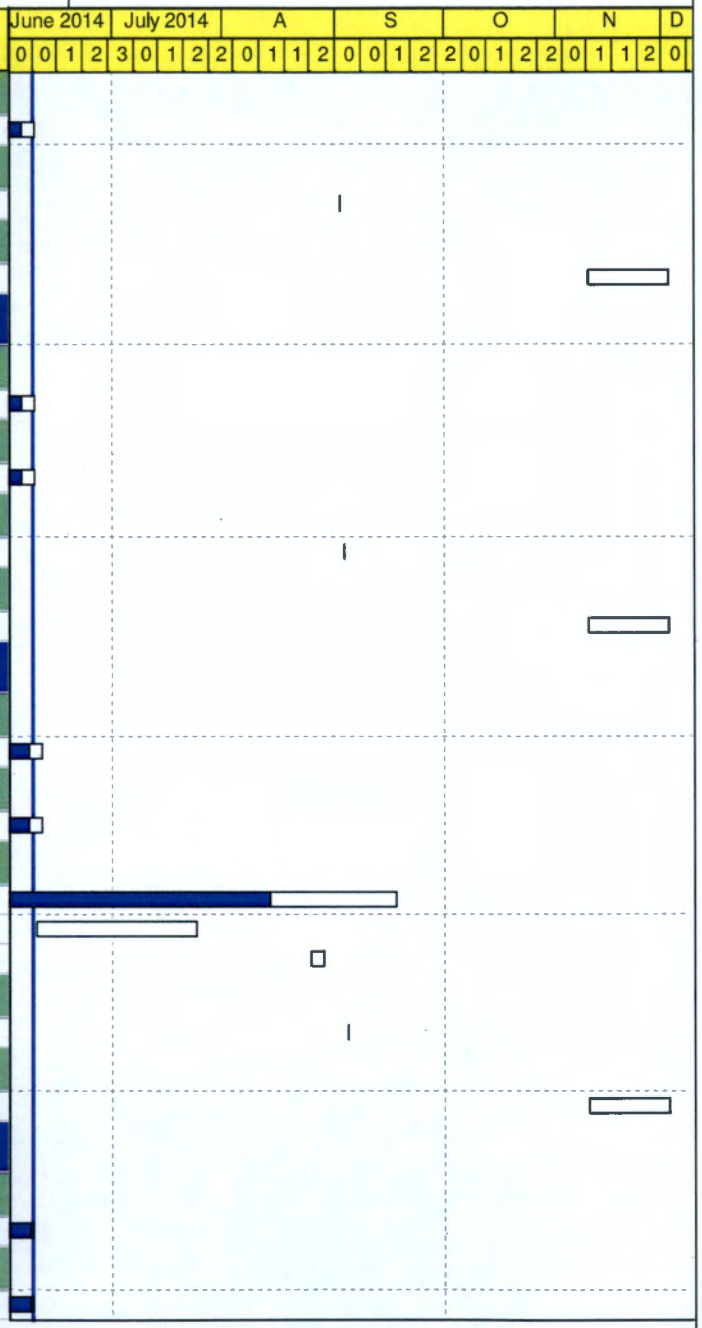
Attachment 9

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
600-326					
Excavation					
IU222640	Excavation 600-326 (IU-6)	0%	3	08-Dec-15	10-Dec-15
Loadout					
IU222650	Loadout 600-326	0%	3	14-Dec-15	16-Dec-15
Closeout Sampling & Docs					
IU222710	Closure Sampling 600-326	0%	26	06-Jan-16	22-Feb-16
Final Project Closeout					
IU222720	Prepare Closure Document 600-326	0%	83	23-Feb-16	19-Jul-16
IU222730	RL/Reg Review of Draft A Closure Document 600-326	0%	26	27-Apr-16	13-Jun-16
IU222740	RL/Reg Signature Rev.0 Closure Document 600-326	0%	4	13-Jul-16	19-Jul-16
Backfill					
IU222660	Backfill 600-326	0%	1	20-Jul-16*	20-Jul-16
Revegetation					
IU222680	Revegetation 600-326	0%	1	21-Nov-16*	21-Nov-16
Culture Resource Reviews					
IU226710	Cultural / Eco Clearance 600-326	0%	300	29-Jun-12 A	07-Dec-15
600-383					
Excavation					
IU225450	Excavation 600-383 (D/H Boundary Site)	98%	1	31-Oct-13 A	09-Jun-14
Loadout					
IU225350	Loadout 600-383	98%	1	31-Oct-13 A	09-Jun-14
Final Project Closeout					
IU225380	Prepare Closure Document 600-383	76%	34	26-Mar-14 A	06-Aug-14
IU225390	RL/Reg Review of Draft A Closure Document 600-383	50%	5	01-May-14 A	16-Jun-14
IU225400	RL/Reg Signature Rev.0 Closure Document 600-383	0%	8	15-Jul-14	28-Jul-14
Backfill					
IU225430	Backfill 600-383	0%	1	08-Sep-14	08-Sep-14
Revegetation					
IU225440	Revegetation 600-383	0%	8	10-Nov-14*	20-Nov-14
600-384					
Excavation					
IU225560	Excavation 600-384 (D/H Boundary Site)	98%	4	04-Nov-13 A	12-Jun-14
Loadout					

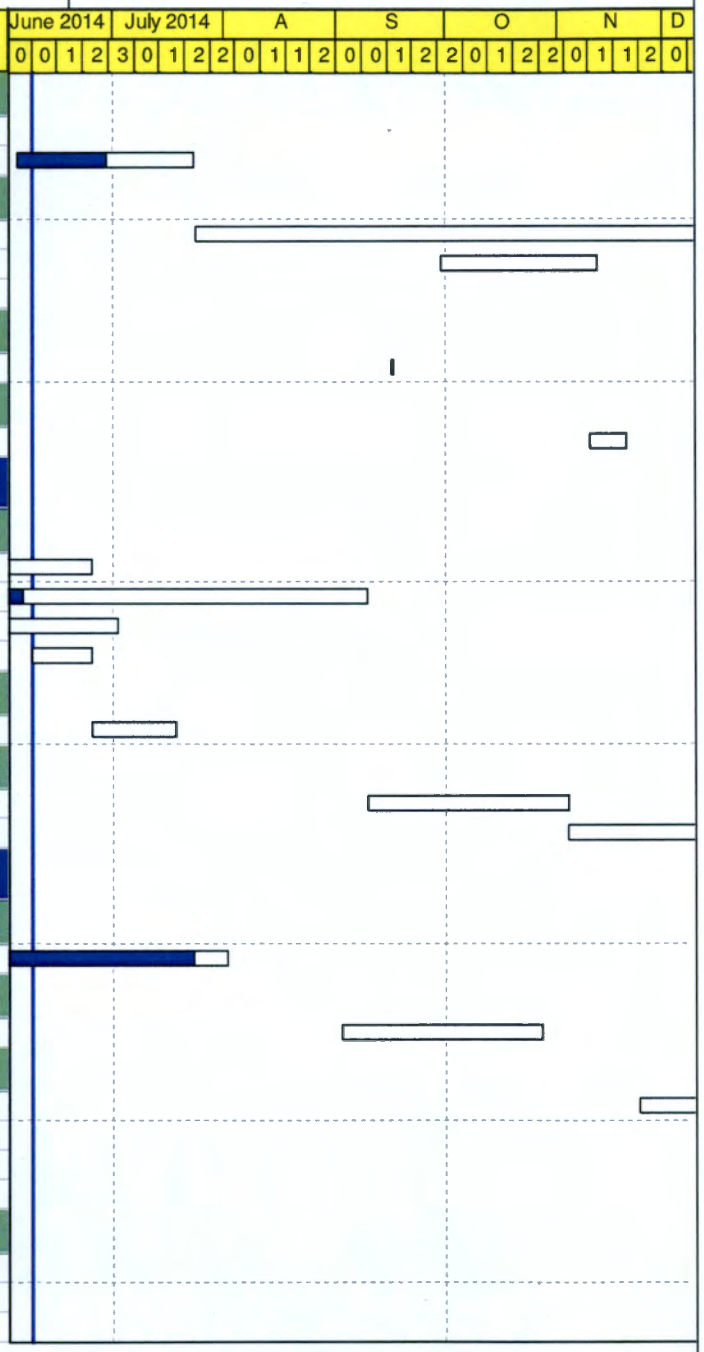
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
IU225460	Loadout 600-384	98%	4	04-Nov-13 A	12-Jun-14
Final Project Closeout					
IU225490	Prepare Closure Document 600-384	76%	48	10-Apr-14 A	02-Sep-14
IU225500	RL/Reg Review of Draft A Closure Document 600-384	0%	19	27-May-14 A	10-Jul-14
IU225510	RL/Reg Signature Rev.0 Closure Document 600-384	0%	7	11-Aug-14	20-Aug-14
Backfill					
IU225540	Backfill 600-384	0%	1	09-Sep-14	09-Sep-14
Revegetation					
IU225550	Revegetation 600-384	0%	8	10-Nov-14*	20-Nov-14
600-382					
Excavation					
IU225340	Excavation 600-382 (D/H Boundary Site)	98%	4	29-Oct-13 A	12-Jun-14
Loadout					
IU225240	Loadout 600-382	98%	4	29-Oct-13 A	12-Jun-14
Final Project Closeout					
IU225270	Prepare Closure Document 600-382	76%	45	15-Apr-14 A	26-Aug-14
IU225280	RL/Reg Review of Draft A Closure Document 600-382	0%	16	21-May-14 A	07-Jul-14
IU225290	RL/Reg Signature Rev.0 Closure Document 600-382	0%	7	05-Aug-14	14-Aug-14
Backfill					
IU225320	Backfill 600-382	0%	1	10-Sep-14	10-Sep-14
Revegetation					
IU225330	Revegetation 600-382	0%	8	10-Nov-14*	20-Nov-14
600-356					
Excavation					
IU226500	Plume Chase 600-356 (Segment 1)	98%	1	05-Dec-13 A	09-Jun-14
Final Project Closeout					
IU226050	Prepare Closure Document 600-356	100%	0	06-Mar-14 A	05-Jun-14 A
Backfill					
IU226030	Backfill 600-356	0%	4	11-Sep-14	17-Sep-14
Revegetation					
IU226060	Revegetation 600-356	0%	1	10-Nov-14*	10-Nov-14
600-377					
Excavation					
IU224790	Excavation 600-377	98%	1	16-Dec-13 A	09-Jun-14



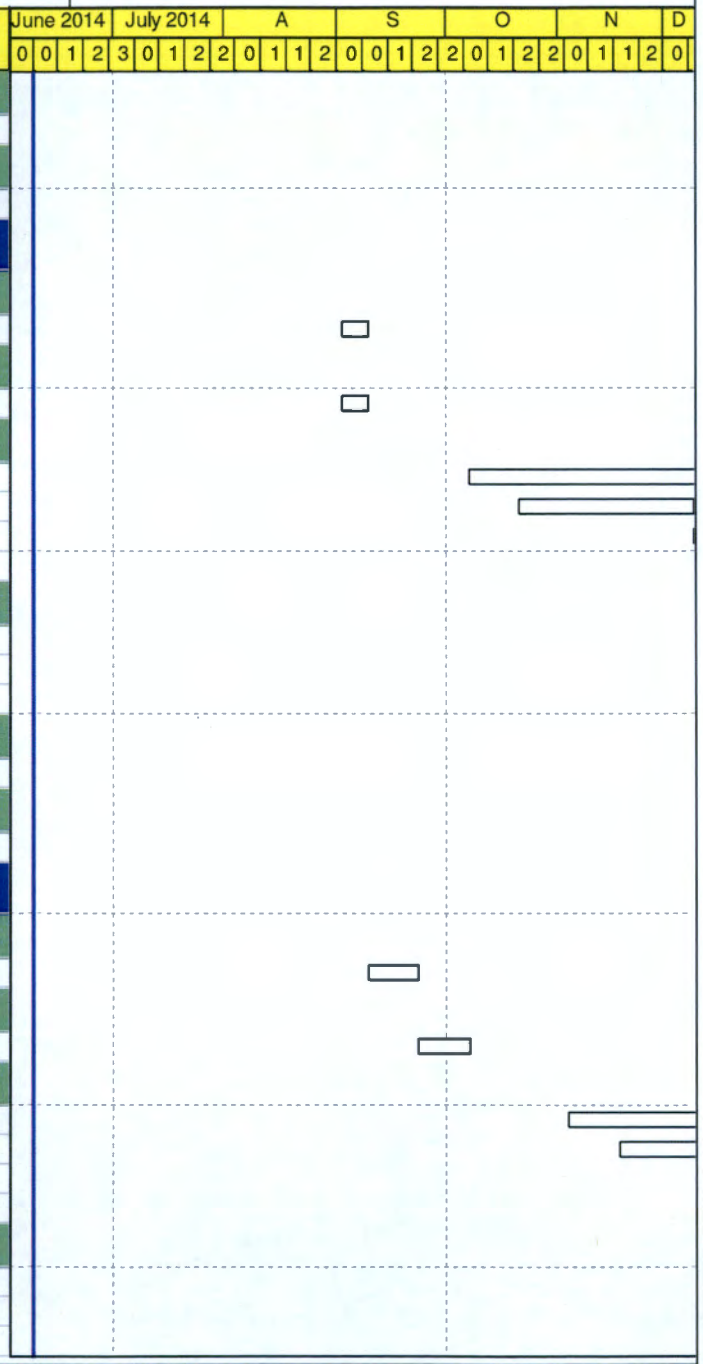
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
Loadout					
IU224690	Loadout 600-377	98%	1	16-Dec-13 A	09-Jun-14
Backfill					
IU224770	Backfill 600-377	0%	1	02-Sep-14*	02-Sep-14
Revegetation					
IU224780	Revegetation 600-377	0%	12	10-Nov-14*	02-Dec-14
600-379					
Excavation					
IU225010	Excavation 600-379	98%	1	18-Dec-13 A	09-Jun-14
Loadout					
IU224910	Loadout 600-379	98%	1	18-Dec-13 A	09-Jun-14
Backfill					
IU224990	Backfill 600-379	0%	1	03-Sep-14	03-Sep-14
Revegetation					
IU225000	Revegetation 600-379	0%	12	10-Nov-14*	02-Dec-14
600-378					
Excavation					
IU224900	Excavation 600-378	98%	3	17-Dec-13 A	11-Jun-14
Loadout					
IU224800	Loadout 600-378	98%	3	17-Dec-13 A	11-Jun-14
Final Project Closeout					
IU224830	Prepare Closure Document 600-378	73%	57	12-May-14 A	17-Sep-14
IU224840	RL/Reg Review of Draft A Closure Document 600-378	0%	26	10-Jun-14	24-Jul-14
IU224850	RL/Reg Signature Rev.0 Closure Document 600-378	0%	4	25-Aug-14	28-Aug-14
Backfill					
IU224880	Backfill 600-378	0%	1	04-Sep-14	04-Sep-14
Revegetation					
IU224890	Revegetation 600-378	0%	12	10-Nov-14*	02-Dec-14
600-331					
Excavation					
IU223580	Excavation 600-331	99%	0	02-Apr-14 A	09-Jun-14
Loadout					
IU223480	Loadout 600-331	99%	0	02-Apr-14 A	09-Jun-14



Activity ID	Activity Name	% Cmpl	RD	Start	Finish
Closeout Sampling & Docs					
IU223540	Prepare Work Instruction 600-331	100%	0	24-Apr-14 A	02-Jun-14 A
IU223500	Closure Sampling 600-331	50%	26	05-Jun-14 A	23-Jul-14
Final Project Closeout					
IU223510	Prepare Closure Document 600-331	0%	93	24-Jul-14	13-Jan-15
IU223520	RL/Reg Review of Draft A Closure Document 600-331	0%	26	30-Sep-14	12-Nov-14
IU223530	RL/Reg Signature Rev.0 Closure Document 600-331	0%	4	16-Dec-14	22-Dec-14
Backfill					
IU223560	Backfill 600-331	0%	1	16-Sep-14	16-Sep-14
Revegetation					
IU223570	Revegetation 600-331	0%	8	10-Nov-14*	20-Nov-14
600-349 UXO Site					
Excavation					
IU225790	Excavation	14%	9	14-Apr-14 A	25-Jun-14
IU226540	Mag and Dig (Analog Areas)	20%	52	14-May-14 A	09-Sep-14
IU226570	DGM Survey	18%	14	20-May-14 A	02-Jul-14
IU226590	DGM Reaquisition and Consultation 600-349	0%	10	09-Jun-14	25-Jun-14
Loadout					
IU225800	DGM Subsurface Clearance 600-349	0%	13	25-Jun-14	18-Jul-14
Closeout Sampling & Docs					
IU225860	Closure Report 600-349	0%	32	09-Sep-14	04-Nov-14
IU226610	Prepare WSRF 600-349	0%	72	04-Nov-14	19-Mar-15
600-20					
Excavation					
IU226110	Excavation 600-20	90%	31	05-May-14 A	01-Aug-14
Loadout					
IU226120	Loadout 600-20	0%	31	02-Sep-14	27-Oct-14
Closeout Sampling & Docs					
IU226180	Prepare Work Instruction 600-20	0%	44	24-Nov-14	18-Feb-15
IU226190	RL/Reg Review of Draft A Work Instruction 600-20	0%	26	10-Dec-14	29-Jan-15
IU226130	RL/Reg Signature Rev.0 WI 600-20	0%	4	29-Jan-15	05-Feb-15
IU226140	Closure Sampling 600-20	0%	26	18-Feb-15	06-Apr-15
Final Project Closeout					
IU226150	Prepare Closure Document 600-20	0%	80	06-Apr-15	26-Aug-15
IU226160	RL/Reg Review of Draft A Closure Document 600-20	0%	26	28-May-15	15-Jul-15
IU226170	RL/Reg Signature Rev.0 Closure Document 600-20	0%	4	12-Aug-15	19-Aug-15



Activity ID	Activity Name	% Cmpl	RD	Start	Finish
Backfill					
IU226200	Backfill 600-20	0%	6	26-Aug-15	08-Sep-15
Revegetation					
IU226210	Revegetation 600-20	0%	2	09-Nov-15*	10-Nov-15
600-332					
Excavation					
IU223690	Excavation 600-332	0%	4	02-Sep-14	09-Sep-14
Loadout					
IU223590	Loadout 600-332	0%	4	02-Sep-14	09-Sep-14
Closeout Sampling & Docs					
IU223650	Prepare Work Instruction 600-332	0%	44	07-Oct-14	30-Dec-14
IU223660	RL/Reg Review of Draft A Work Instruction 600-332	0%	26	21-Oct-14	09-Dec-14
IU223600	RL/Reg Signature Rev.0 WI 600-332	0%	4	09-Dec-14	16-Dec-14
IU223610	Closure Sampling 600-332	0%	26	30-Dec-14	17-Feb-15
Final Project Closeout					
IU223620	Prepare Closure Document 600-332	0%	80	17-Feb-15	09-Jul-15
IU223630	RL/Reg Review of Draft A Closure Document 600-332	0%	26	09-Apr-15	27-May-15
IU223640	RL/Reg Signature Rev.0 Closure Document 600-332	0%	4	24-Jun-15	01-Jul-15
Backfill					
IU223670	Backfill 600-332	0%	1	09-Jul-15	13-Jul-15
Revegetation					
IU223680	Revegetation 600-332	0%	5	09-Nov-15*	16-Nov-15
600-358					
Excavation					
IU225900	Excavation 600-358	0%	8	09-Sep-14	23-Sep-14
Loadout					
IU225910	Loadout 600-358	0%	8	23-Sep-14	07-Oct-14
Closeout Sampling & Docs					
IU225970	Prepare Work Instruction 600-358	0%	44	04-Nov-14	28-Jan-15
IU225980	RL/Reg Review of Draft A Work Instruction 600-358	0%	26	18-Nov-14	12-Jan-15
IU225920	RL/Reg Signature Rev.0 WI 600-358	0%	4	12-Jan-15	19-Jan-15
IU225930	Closure Sampling 600-358	0%	26	28-Jan-15	17-Mar-15
Final Project Closeout					
IU225940	Prepare Closure Document 600-358	0%	80	17-Mar-15	06-Aug-15
IU225950	RL/Reg Review of Draft A Closure Document 600-358	0%	26	07-May-15	24-Jun-15
IU225960	RL/Reg Signature Rev.0 Closure Document 600-358	0%	4	23-Jul-15	30-Jul-15



Activity ID	Activity Name	% Cmpl	RD	Start	Finish
Backfill					
IU225990	Backfill 600-358	0%	1	06-Aug-15	10-Aug-15
Revegetation					
IU226000	Revegetation 600-358	0%	5	09-Nov-15*	16-Nov-15

June 2014 | July 2014 | A | S | O | N | D

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Current Bar Labels ▬ % Complete ◆ ◆

Attachment 10

300 Area Closure Project Status
June 12, 2014
100/300 Area Combined Unit Manager Meeting

Ongoing Activities

- 309 – Below-grade demolition ongoing. Preparing to lift TW-3 and the moderator tank from the lower reactor containment.
- 340 - Initiated final remediation of 340 waste sites. Encountered ground water the week of June 2nd.
- 324 – Continue min-safe operations. NEPA and NHPA Section 106 reviews of the AREVA off-site mockup location on going. 300-296 retrieval conceptual design at 100%.
- Remaining 300 Area Waste Sites – Initiated Zone 1 process sewer remediation.
- .
- Final 300 Area ROD RDR/RAWP submitted to EPA for review and comment.
- Finalizing preparations to stabilize high contamination RRLWS and RLWS piping.

Demolition & Remediation Preparation Activities

- Planning and documentation proceeding for demolition of 351 Substation, remaining 310 facilities, 342 complex, and 352F.

60-Day Project Look Ahead

- Continue south of Apple waste sites remediation.
- Finalize revision to the 300-FF-2 portion of the RDR/RAWP and SAP.
- Initiate stabilization of RRLWS and RLWS piping.
- Complete 340 Waste Sites remediation.
- Continue Zone 1 process sewer remediation.
- Continue 309 below-grade demolition.

Attachment 11

ESH&QA Mission Completion Project
June 12, 2014

Long-Term Stewardship

- Finalizing the 100-K Area Interim Remedial Action Report, Revision 0 for transmittal to RL and subsequent transmittal to EPA.

300 Area Final Action ROD RDR/RAWP

- Draft A of the 300 Area RDR/RAWP Soil Addendum was submitted to EPA on May 23, 2014.)
- RL review and comment resolution for the associated revision to the soil SAP is currently ongoing.

Document Review Look-Ahead

- None