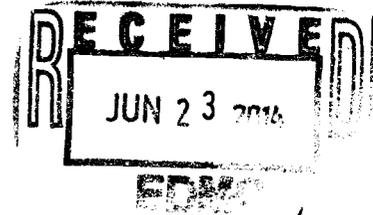


100/300 AREA UNIT MANAGERS MEETING  
APPROVAL OF MEETING MINUTES

May 8, 2014



APPROVAL: *Mark French* Date 6/12/14  
Mark French, DOE/RL (A6-38)  
River Corridor Project Manager

APPROVAL: *Brian Charboneau* Date 6/11/2014  
Brian Charboneau, DOE/RL (A6-33)  
Groundwater Project Manager

APPROVAL: *Nina Menard* Date 6/12/14  
Nina Menard, Ecology (H0-57) FOR  
Environmental Restoration Project  
Manager

APPROVAL: *Laura Buelow* Date 6/12/14  
Laura Buelow, Rod Lobos, or Christopher  
Guzzetti, EPA (B1-46)  
100 Area Project Manager

APPROVAL: *Larry Gadbois* Date 6/12/14  
Larry Gadbois, EPA  
(B1-46)  
300 Area Project Manager

# Please distribute to the following:

## 100/300 AREA UNIT MANAGER MEETING ATTENDANCE AND DISTRIBUTION

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Gadbois, Larry E	Gadbois.larry@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**

**May 8, 2014**

### **ADMINISTRATIVE**

- **Next Unit Manager Meeting (UMM)** – The next meeting will be held June 12, 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 April 10, 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 May 8, 2014, UMM. Attachment E is the presentation on beryllium that was given by Pete Garcia to close out an action item.

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

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 3 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 2 provides status and information for Field Remediation activities. Attachment 4 provides a schedule for Field Remediation at 100-B/C Area. Attachment 5 provides status and information for D4/ISS activities at 100-N and 100-B. No issues were identified and no agreements or action items were documented.

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

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 5 provides status and information for D4/ISS activities at 100-N and 100-B. Attachment 6 provides the 100-N Area FR Schedule. Attachment 7

provides a chart showing biovent well sample results for 199-N-171 and 199-N-169. No issues were identified and no action items were documented.

Agreement 1: Attachment 8 provides EPA's and Ecology's concurrences of a non-contiguous onsite approval request to store 100-N verification sampling waste at the 100-D CTA pending return of sample data prior to disposal.

Agreement 2: Attachment 9 provides DOE's and Ecology's concurrences to close the southern portion of the 100-N-84:5 waste site that was removed as part of the construction of the 185-N building, based on 11 statistical samples and one focused sample.

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

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 10 provides the Field Remediation Schedule for 100-D and 100-H. No issues were identified and no action items were documented.

Agreement 1: Attachment 11 provides Tri-Party Agreement (TPA) Change Notice (CN) number TPA-CN-616 to update Appendix A of the Interim Action Waste Management Plan for the 100-HR-3 and 100-KR-4 Operable Units, Rev. 5 (DOE/RL-97-01) to add 4 characterization borings at the 100-D-100 waste site.

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

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 12 provides the Field Remediation Schedule for IU-2/6. No issues were identified and no action items were documented.

Agreement 1: Attachment 13 provides DOE's and EPA's approvals to set up a staging pile area to support remediation of 600-20.

Agreement 2: Attachment 14 provides DOE's and EPA's approvals to set up a temporary CTAs for waste load-out at 600-20 and 600-340.

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

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. No issues were identified and no agreements or action items were documented.

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

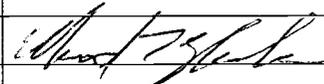
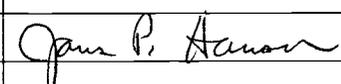
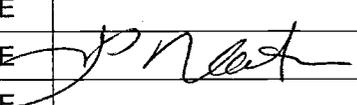
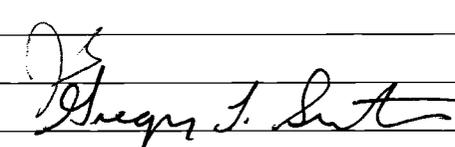
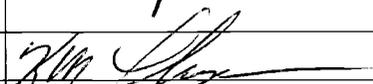
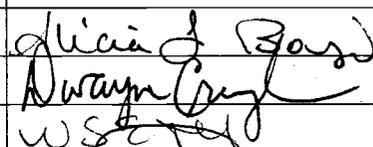
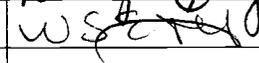
Attachment 1 provides status and information for groundwater. Attachment 15 provides status of the 300 Area Closure Project activities. No issues were identified and no agreements or action items were documented.

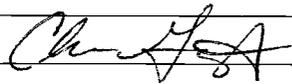
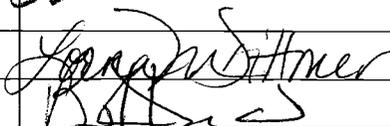
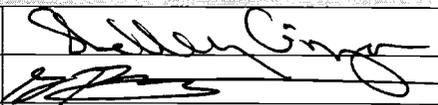
## **MISSION COMPLETION PROJECT**

Attachment 16 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.

# Attachment A

100/300 AREA UNIT MANAGER MEETING  
ATTENDANCE AND DISTRIBUTION  
May 8, 2014

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# Attachment B

100/300 Area UMM  
Action List  
May 8, 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 Executive Session  
Tri-Parties Only  
May 8, 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):

- Beryllium posting and cleanup levels
- Next Executive Session (6/12/2014, Room C209)

# Attachment D

100/300 Area Unit Manager Meeting  
May 8, 2014  
Washington Closure Hanford Building  
2620 Fermi Avenue, Richland, WA 99354  
Room C209; 2:00p.m.

Administrative:

- Approval and signing of previous meeting minutes (April 10, 2014)
- Update to Action Items List
- Next UMM (6/12/2014, Room C209)

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

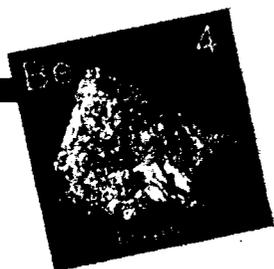
- 100-K Area (Jim Hanson, Ellwood Glossbrenner, Roger Quintero)
- 100-B/C Area (Greg Sinton, Tom Post)
- 100-N Area (Joanne Chance, Rudy Guercia, Mike Thompson)
- 100-D & 100-H Areas (Jim Hanson, Tom Post, Elwood Glossbrenner)
- 100-F & 100-IU-2/6 Areas (Greg Sinton, Tom Post, Ellwood Glossbrenner)
-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

Special Topics/Other

Adjourn

# Attachment E

## Be Soil Cleanup and Posting Levels



**Pete Garcia**

Richland Operations Office

Unit Managers Meeting

May 8, 2014



U.S. DEPARTMENT OF  
**ENERGY**

## Beryllium Posting and Cleanup Levels for Soil

### Forms of Beryllium (Be)

- Be is a very strong, light weight metal which is a good electrical and thermal conductor
- Naturally Occurring – typically aluminum beryllium silicate (beryl), Be is bound in a chemical matrix
- Anthropogenic – typically elemental beryllium or beryllium oxide, used at Hanford for the construction of reactor fuel elements and also found in electrical equipment and non-sparking tools

## Beryllium Posting and Cleanup Levels for Soil

### Human Health Effects

- Cancer – Can be caused by exposure to high levels of Be (National Jewish Hospital website)
- Be Sensitization – allergic reaction caused by exposure to Be dust or fumes in individuals who are genetically susceptible, no immediate health effects but can lead to Chronic Beryllium Disease (CBD)
- Chronic Beryllium Disease – disease which progresses from Be sensitization and primarily affects the lungs, causing granulomas, inflammation, and scarring
- Be Sensitization/CBD - studies show that on average 1-6% of exposed workers will develop Be sensitization and 40-60% of those sensitized will develop CBD (National Jewish Hospital website)

## Beryllium Posting and Cleanup Levels for Soil

### 10 CFR 850, Chronic Beryllium Disease Prevention Program

- 10 CFR 850 was issued in 1999 to protect DOE workers from exposure to anthropogenic beryllium (elemental Be and insoluble Be compounds).
- 10 CFR 850 requires contractors to develop and DOE to approve a Chronic Beryllium Disease Prevention Program (CBDPP) which implements the rule.
- RL and ORP have been working with site stakeholders since 2010 to implement a Corrective Action Plan (CAP) addressing weaknesses in the site-wide CBDPP identified during a DOE-HQ inspection.
- Release criteria – 10 CFR 850.31 states that the contamination level must not exceed “the concentration level of beryllium in soil at the point of release”.

## Beryllium Posting and Cleanup Levels for Soil

### CBDPP Rev. 2A

- Rev. 2A is in the process of being implemented across the site, with full implementation expected shortly.
- Rev. 2A contains a number of major Be CAP products, including a rigorous new process for assessing and characterizing facilities and a new postings procedure.
- Rev. 2A contains a soil cleanup and posting level of 2 ppm Be for worker protection against anthropogenic Be, based on an average Be concentration level in the vicinity of the Hanford site.
- A future Be CAP product currently under development will look at the potential use of "finger-printing" to differentiate between naturally occurring and anthropogenic Be.

# Attachment 1

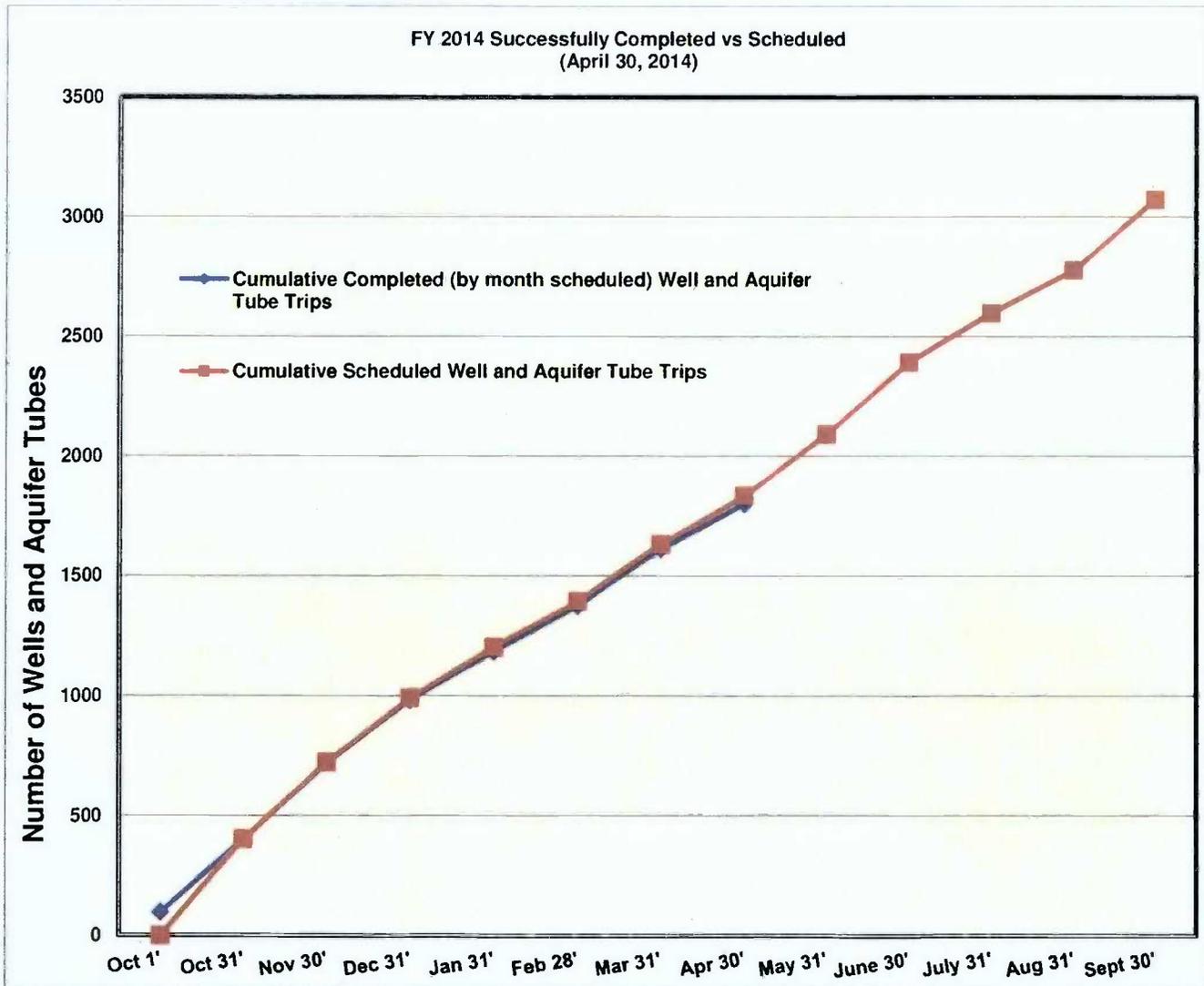
100/300 Areas Unit Managers Meeting  
May 8, 2014

**General information on Remedy Selection & Implementation**

Hanford's overall Site groundwater monitoring program (River Corridor and Central Plateau) for 2014 has 3,072 sample trips scheduled. During April 2014 (month seven for the year) the program successfully completed 190 groundwater sampling trips of the 202 scheduled. Additionally, 22 trips scheduled for October 2013 through March 2014 were completed. This brings the total number of sample trips successfully completed for October 2013 through April 2014 to 1,800 of 1,834.

The specific wells, aquifer tubes and springs sampled in the river corridor areas during April 2014 are listed in Table 1. Table 2 presents the samples for the river corridor only that were not successfully completed in April. Sample trips scheduled for collection in May 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**  
**May 8, 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 52.07 million gallons.
    - The system removed 3.7 kg of hexavalent chromium.
  - Completed construction of well 199-K-206, which is planned as an injection well for the KW P&T.
  - Completed drilling of wells 199-K-210, 199-K-212, and 199-K-220, which are planned as extraction wells for the KX P&T.
  - Initiated construction of well 199-K-212.
  - Initiated drilling of well 199-K-220, which will be a high volume high concentration extraction well at the KE head house.
- Monitoring and Reporting
  - Nothing new to report.

**100/300 Areas Unit Managers Meeting  
May 8, 2014**

**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
  - Sixteen hyporheic sampling points (HSPs) were sampled for Cr(VI) in April: 13 of the 14 half-meter HSPs and all 3 of the one-meter HSPs. HSP C8861 (farthest downstream) was found broken and cannot be sampled. As discussed last month, the one-meter HSPs were added to the monthly sampling schedule. As illustrated in Figure BC-1, river stage remained relatively high in April.
  - Figures BC-2 and BC-3 illustrate specific conductance and Cr(VI) in April 2014 compared to December 2013. Samples from several HSPs had lower specific conductance and lower Cr(VI) in April. 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.
  - Cr(VI) results from the first routine samples from the 8 new monitoring wells, collected in March, were received. Figure BC-4 illustrates the new data in comparison with characterization samples collected during drilling. In well 199-B5-11, a deep well located northeast of 100-C-7, the March sample had lower Cr(VI) concentrations at the bottom of the aquifer than characterization samples. Conversely, several other wells had somewhat higher concentrations. The new wells were sampled again in late April, and will be sampled quarterly for the rest of this calendar year.
  - Several other monitoring wells, scheduled quarterly, were sampled in late April.
  - AWLN instrumentation was installed at six monitoring wells and was completed on April 28, 2014.

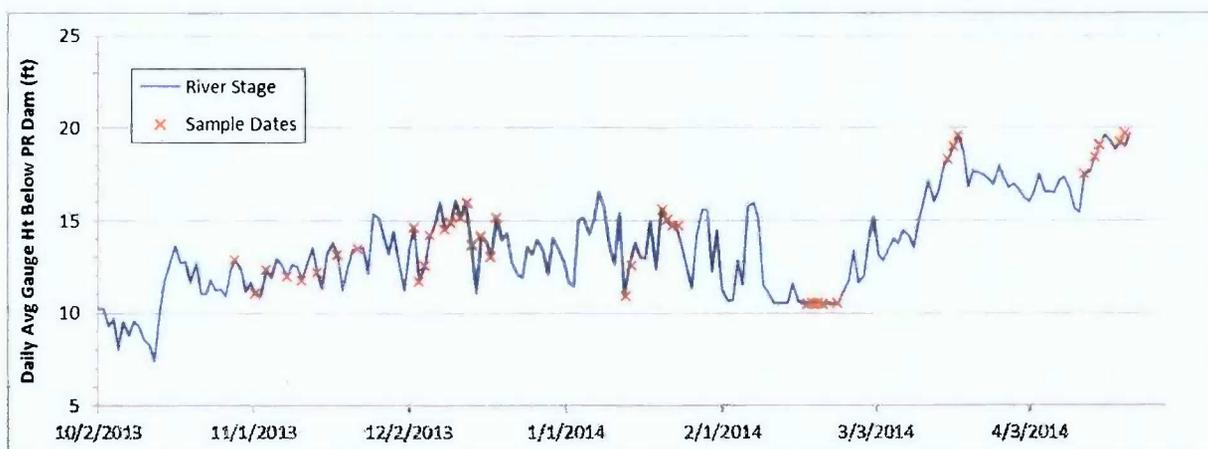
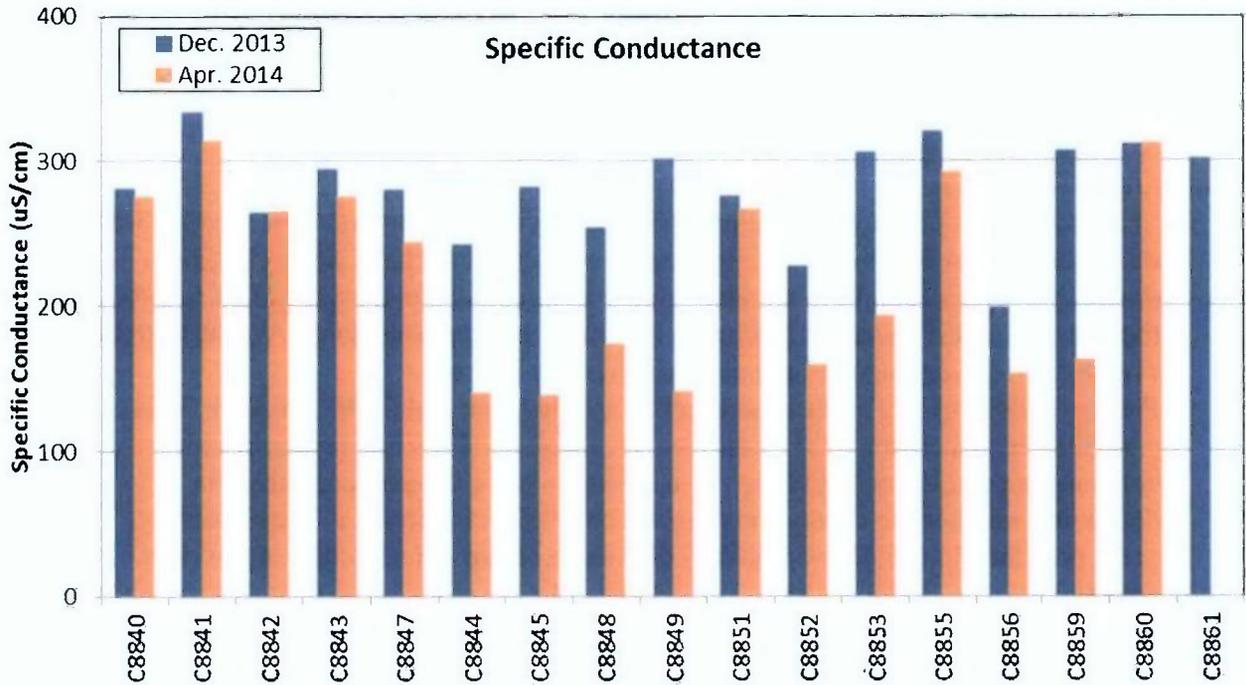
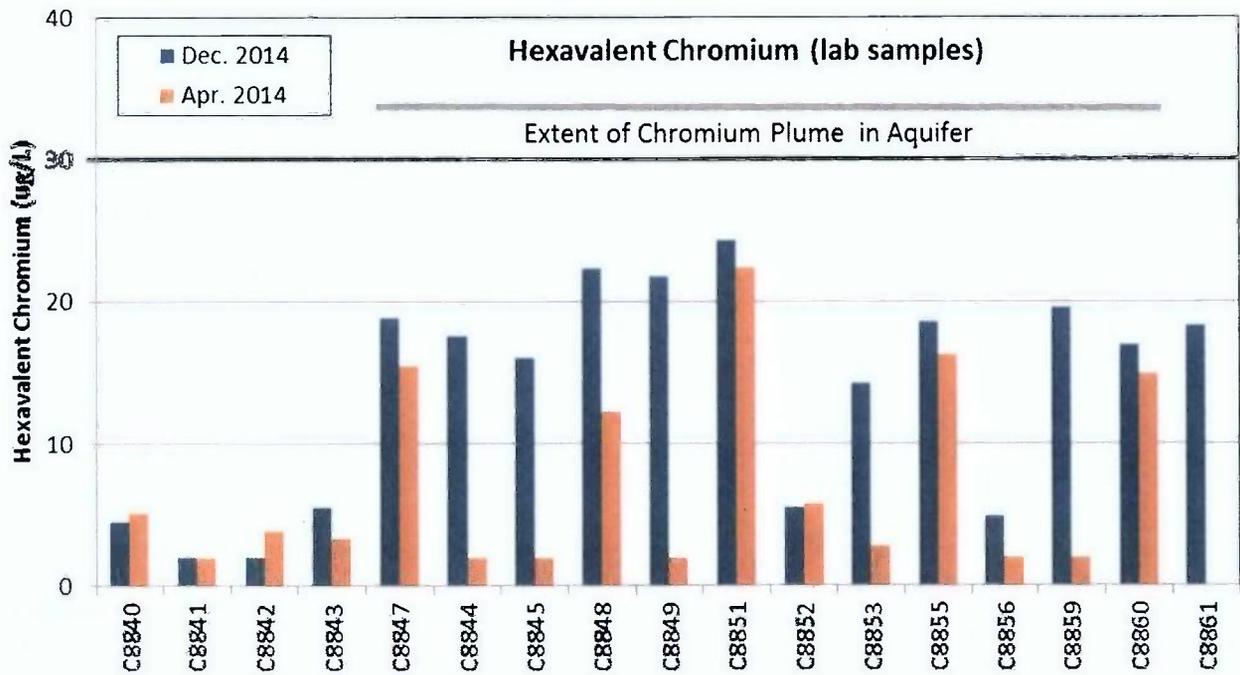


Figure BC-1. Daily Average River Stage Below Priest Rapids Dam and 100-BC HSP Sample Dates

**100/300 Areas Unit Managers Meeting  
May 8, 2014**

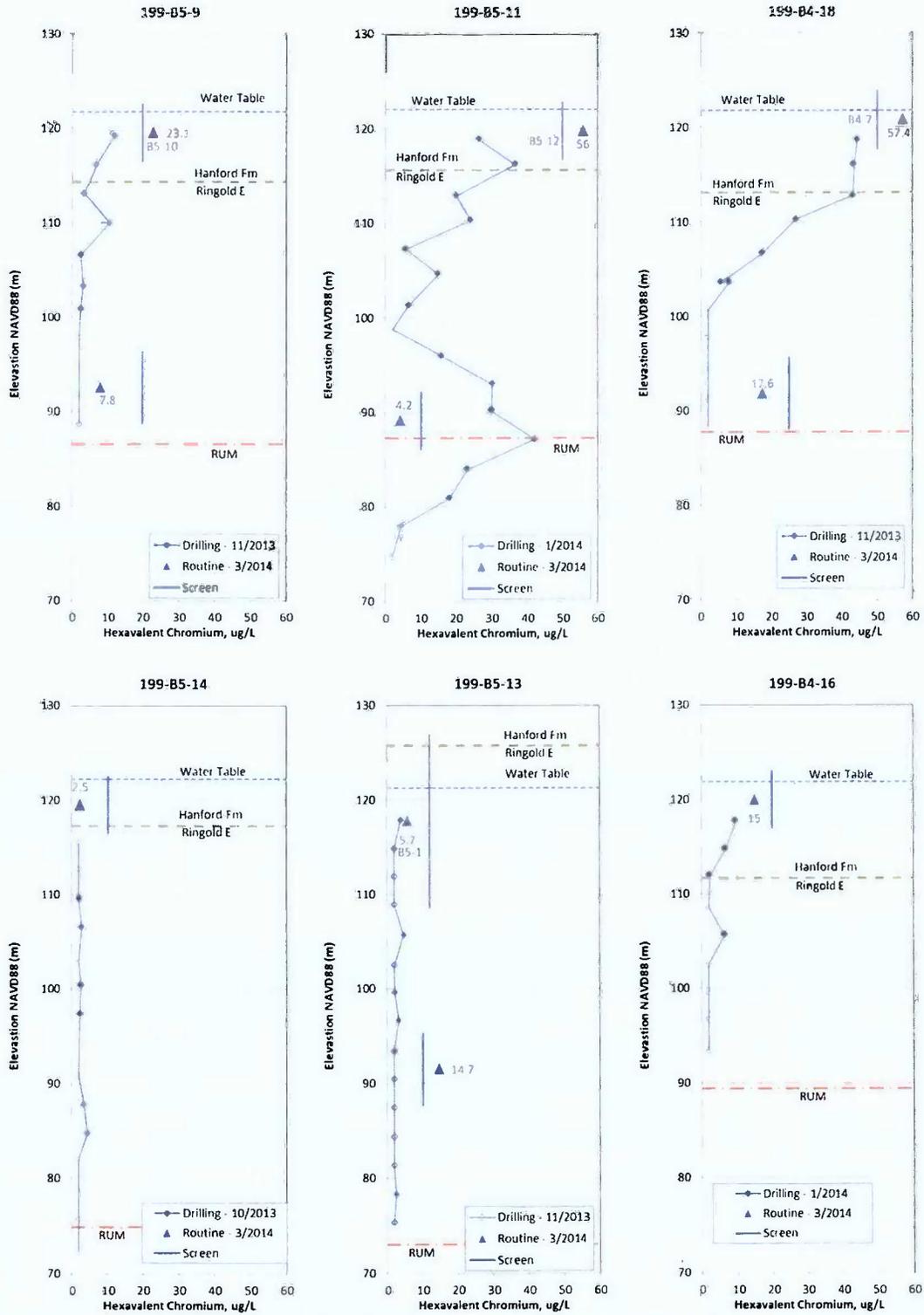


**Figure BC-2. Specific Conductance in 100-BC Hyporheic Sampling Points.**



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

**100/300 Areas Unit Managers Meeting  
May 8, 2014**



Hollow symbols indicate concentrations below detection limits.

X indicates suspected non-representative data (drilling-related reduction effects)

Geologic contacts represent interpretations based on geologic and geophysical logs.

**Figure BC-4. Vertical Characterization Data (October 2013 through January 2014) compared to Routine Samples from Completed Wells (March 2014)**

**100/300 Areas Unit Managers Meeting  
May 8, 2014**

**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 6.
  - Rev. 1, Draft A of the Remedial Design/Remedial Action Work Plan (DOE/RL-2001-27) is being reviewed by Ecology to support the interim ROD amendment and field work to finish at least 1,000 feet of barrier injections in 2014.

- Monitoring & Reporting:

Background- Aquifer tubes C7934, C7935, and C7936 are located adjacent to one another (Figure 100NR2-1), with screens at depths of 14.41 ft (C7934), 18.75 ft (C7935), and 29.19 ft (C7936). Samples were collected from these aquifer tubes on October 7, 2013; February 13, 2014; March 25, 2014; and April 9, 2014. The next samples are scheduled for September.

- Tritium: Based upon the April 9 results, concentrations of tritium increased in two aquifer tubes to 180,000 pCi/L (C7934) and 79,000 pCi/L (C7936); and concentrations were unchanged in one aquifer tube at 160,000 pCi/L (C7935) (Figure 100NR2-2). The elevated tritium concentrations are likely due to existing contamination that was mobilized by dust suppression water during interim remediation in 2012/2013. Field activities are anticipated to continue depending on cultural issue resolution.

- Strontium-90 concentrations measured in all three aquifer tubes were consistent with concentrations measured in October 2013 (Figure 100NR2-3). Strontium-90 concentrations are higher in the shallow (C7934) and mid-depth (C7935) aquifer tubes. These concentrations are consistent with the conceptual site model that the strontium-90 concentrations will exceed the drinking water standard for an extended period of time.

*Summary - Based on information indicating that field remedial actions are being completed and that the river level is rising, it is recommended that monthly sampling of aquifer tubes C7934, C7935, and C7936 be discontinued and that a final data assessment be performed. The aquifer tubes are scheduled for annual sampling in September.*

- The next event for CERCLA sampling is scheduled for June 2014. The next event for RCRA sampling is scheduled for September 2014.

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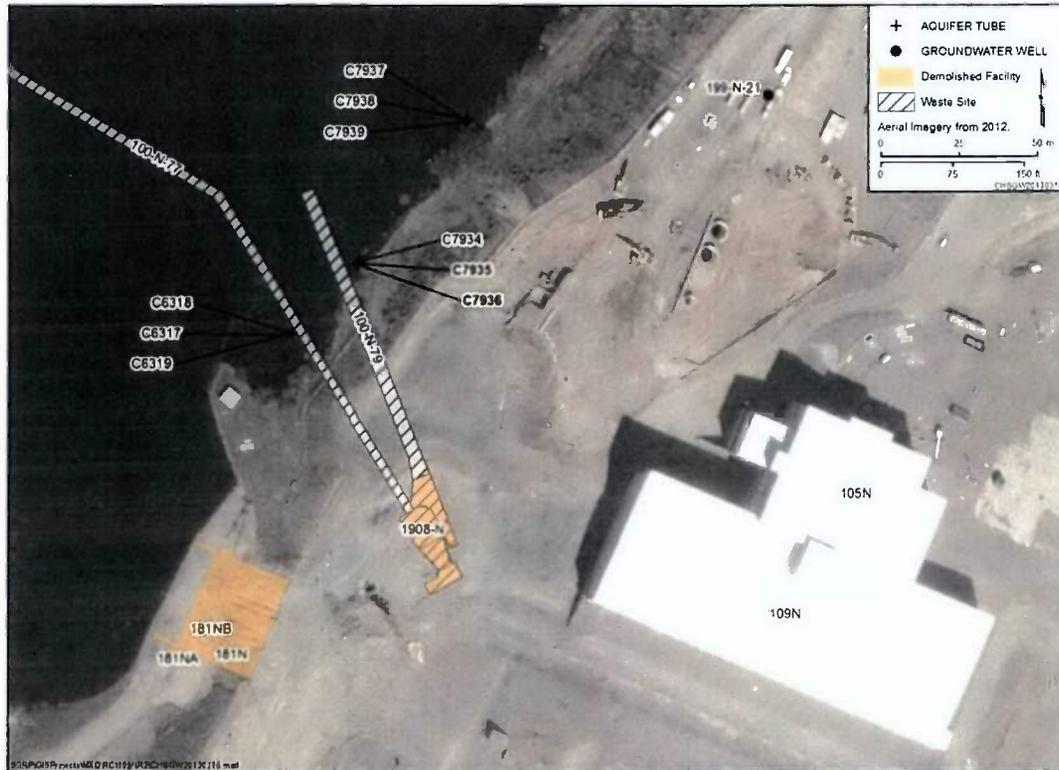


Figure 100NR2-1. Locations of Aquifer Tubes C7934, C7935, and C7936.

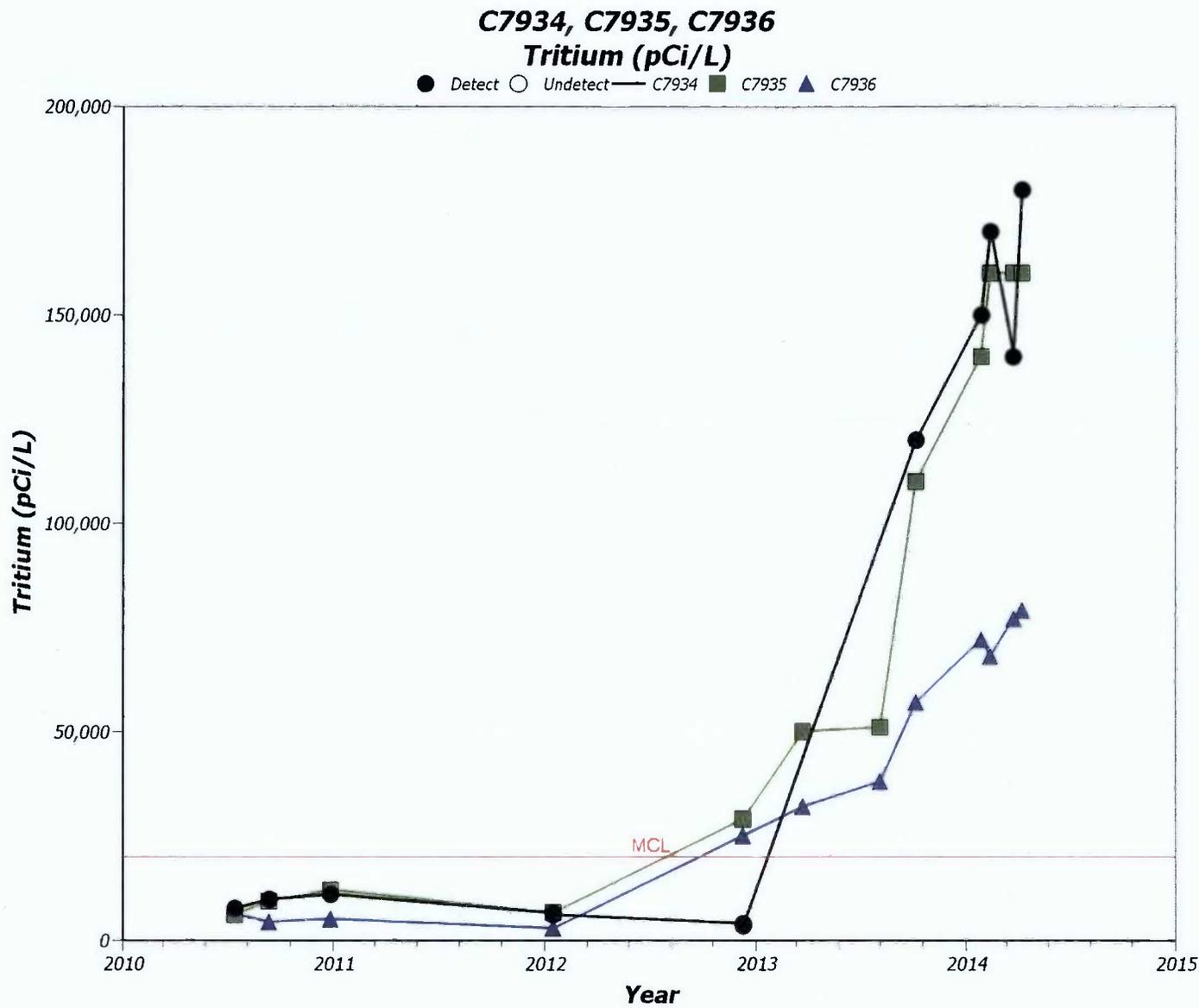


Figure 100NR2-2. Tritium Trends (through April 9, 2014) at Aquifer Tubes C7934, C7935, and C7936 in the 100-NR-2 OU

**C7934, C7935, C7936**  
**Strontium-90 (pCi/L)**

● Detect ○ Undetect — C7934 ■ C7935 ▲ C7936

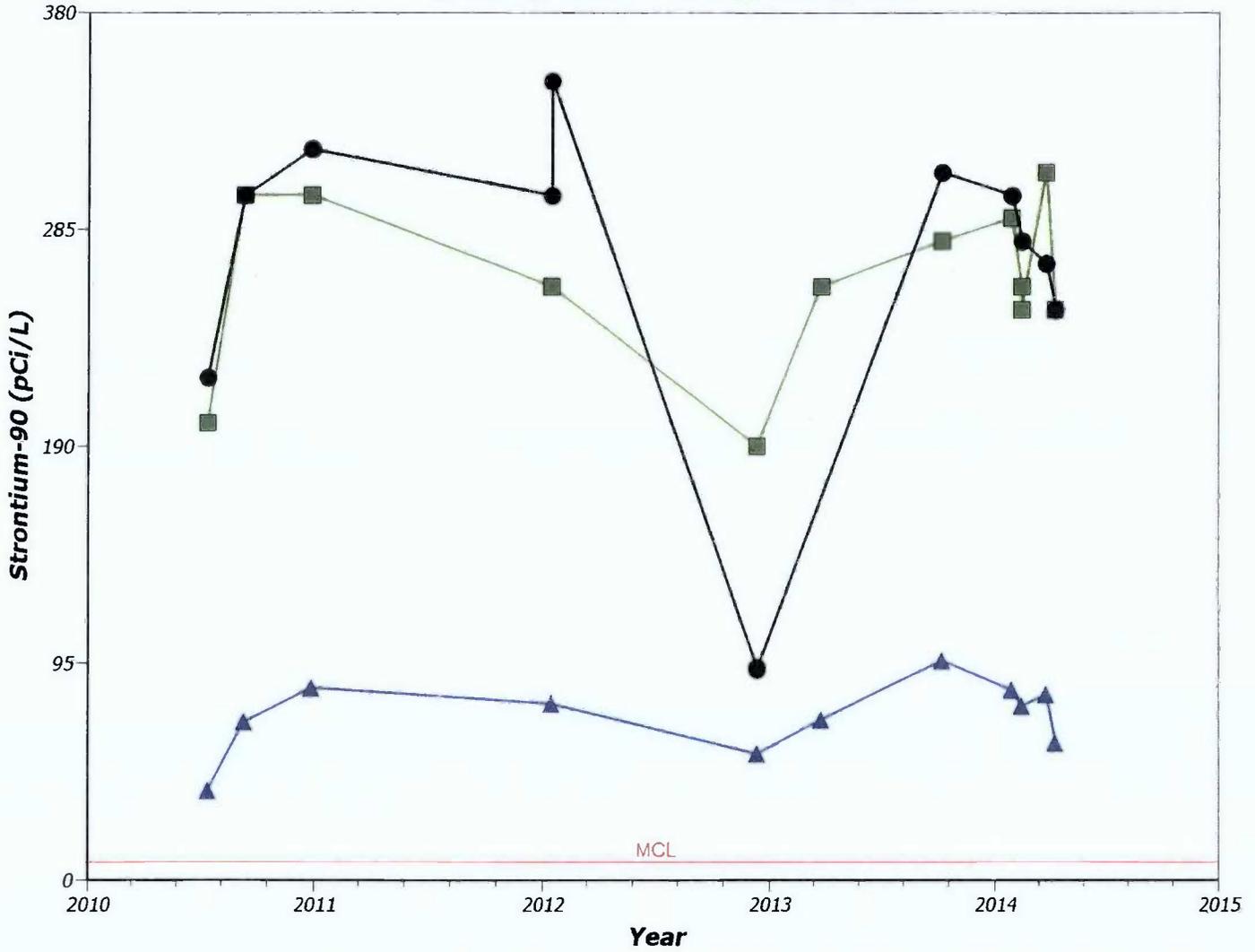


Figure 100NR2-3: Strontium-90 Trends (through April 9, 2014) in Aquifer Tubes C7934, C7935, and C7936

**100/300 Areas Unit Managers Meeting  
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**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. RL and Ecology have reach agreement on resolution of approximately 98% of the comments.
  - RD/RAWP, Monitoring Plan, and Operations and Maintenance (O&M) Plan: The O&M Plan and Monitoring Plan are being reviewed by RL's SAP Review Panel. A meeting with the SAP Review Panel is planned for May 13, 2014.

Ecology working with RL is preparing 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 52.57 million gallons
    - The system removed 20.18 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 early June.
  - The location for a well to replace extraction well 199-D8-6, which has precipitate fouling issues, has been sited in the field. A SAP is being prepared for this well.
  - Drilling at 100-D-100 started on April 24, 2014. The drilling is progressing at about 10 feet or more per day with continuous split spoon samples being collected.
- Monitoring & Reporting
  - Well 199-D5-148 is no longer available for the scheduled bi-weekly sampling due to the installation of equipment at the well associated with conversion to an injection well.
  - Well 199-D5-146 is not currently available for scheduled bi-weekly sampling due to the installation of equipment at the well associated with conversion to an extraction well. The well will be sampled again once it is turned over to pump-and-treat operations, expected May 19, 2014.

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

- CERCLA Process Implementation:
  - Final RL and EPA comments on the PP and the RI/FS were due April 30, 2014. These documents will then be prepared for clearance in early May, followed by delivery to RL.
  - Planning for the public review of the PP is underway. A Draft 30-day public notice was delivered to RL and EPA on April 21, 2014. The fact sheet is being prepared along with preparation for the public meeting(s). The team met with RL and EPA on April 30, 2014, to discuss the public participation planning, release of notice(s) and schedule of activities.
  - The public comment period is anticipated to occur in June. Preparation of the ROD and Responsiveness Summary is scheduled to occur from June to September, with the ROD to be issued in September 2014.
- Monitoring & Reporting
  - Three monitoring wells were sampled in April (semiannual schedule).

**100/300 Areas Unit Managers Meeting  
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**300-FF-5 Groundwater Operable Unit – Bert Day/Virginia Rohay**

- CERCLA Process Implementation:
  - Finalizing Integrated Remedial Design Report/Remedial Action Work Plan, Draft A, for EPA's review
- Monitoring & Reporting
  - 300 Area Industrial Complex: Nothing new to report.
  - 340 Vault Area: Nothing new to report.
  - 618-11 Burial Ground: Five wells were sampled in April as scheduled.
  - 618-10 Burial Ground/316-4 Crib: Nothing new to report.
  - 300 Area Process Trenches (316-5) RCRA Monitoring: Nothing new to report.
  - 300 Area Aquifer Tubes: Nothing new to report.

**100/300 Areas Unit Managers Meeting  
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**Information Tables for Groundwater Sampling**

**Table 1 - Wells, Aquifer Tubes and springs in the River Corridor Areas Successfully Sampled in March 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-FE-5
199-B4-14	199-F5-48	199-D2-11	199-H4-6	199-K-117A	199-K-150		699-12-2C
199-B4-16	199-F5-55	199-D2-11	199-H4-63	199-K-126	199-K-151		699-13-0A
199-B4-18	199-F5-56	199-D2-11	199-H4-84	199-K-130	199-N-333		699-13-1E
199-B4-7		199-D4-19	699-100-43B	199-K-152	199-N-92A		699-13-2D
199-B5-10		199-D4-26	699-101-45	199-K-165	C7934		699-13-3A
199-B5-11		199-D4-86		199-K-166	C7935		
199-B5-12		199-D4-92		199-K-173	C7936		
199-B5-13		199-D4-95		199-K-18	C7937		
199-B5-14		199-D4-96		199-K-20	C7938		
199-B5-6		199-D4-97		199-K-21	C7939		
199-B5-9		199-D4-98		199-K-34			
199-B8-9		199-D4-99		C7641			
C8840		199-D5-101		C7642			
C8841		199-D5-103		C7643			
C8842		199-D5-103					
C8843		199-D5-103					
C8844		199-D5-104					
C8845		199-D5-104					
C8847		199-D5-104					
C8848		199-D5-106					
C8849		199-D5-127					
C8851		199-D5-127					
C8852		199-D5-127					
C8853		199-D5-13					
C8855		199-D5-130					
C8856		199-D5-131					
C8859		199-D5-133					
C8860		199-D5-133					
		199-D5-133					
		199-D5-14					
		199-D5-145					
		199-D5-145					
		199-D5-145					
		199-D5-146					
		199-D5-148					
		199-D5-153					
		199-D5-154					
		199-D5-16					
		199-D5-20					

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100-BG-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-D5-32					
		199-D5-33					
		199-D5-34					
		199-D5-34					
		199-D5-34					
		199-D5-36					
		199-D5-37					
		199-D5-39					
		199-D5-39					
		199-D5-39					
		199-D5-97					
		199-D5-97					
		199-D5-97					
		199-D7-3					
		199-D7-6					
		199-D8-101					
		199-D8-4					
		199-D8-89					
		199-D8-90					
		199-D8-91					
		199-D8-95					
		199-D8-96					
		199-D8-97					
		199-D8-98					

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**Table 2 - Sample Trips Outstanding at the end of March 2014**

<b>GWIA</b>	<b>SAMP SITE TYPE</b>	<b>WELL TYPE</b>	<b>SITE NAME</b>	<b>SCHEDULE DATE</b>	<b>Sample Status Comment</b>
100-HR-3-D	WELL	GROUNDWATER WELL	199-D4-93	1/1/2014	Maintenance required
	WELL	GROUNDWATER WELL	199-D4-93	4/1/2014	Maintenance required
	WELL	GROUNDWATER WELL	199-D5-34	1/1/2014	Not Attempted
	WELL	GROUNDWATER WELL	199-D5-34	1/27/2014	Not Attempted
	WELL	GROUNDWATER WELL	199-D5-39	3/1/2014	Sampled 3/20/2014
	WELL	GROUNDWATER WELL	199-D8-6	4/1/2014	Quarterly
100-HR-3-H	WELL	GROUNDWATER WELL	199-H1-3	12/1/2013	Quarterly
	WELL	GROUNDWATER WELL	199-H4-76	3/1/2014	Quarterly
100-NR-2	WELL	GROUNDWATER WELL	199-K-149	11/1/2013	Maintenance required
	WELL	GROUNDWATER WELL	199-N-41	9/1/2013	Road Maintenance
1100-EM-1	WELL	GROUNDWATER WELL	699-S30-E15A	12/1/2013	Maintenance required
300-FF-5	WELL	GROUNDWATER WELL	399-1-2	12/1/2013	Maintenance required
	WELL	GROUNDWATER WELL	399-1-63	9/1/2013	Maintenance required
	WELL	GROUNDWATER WELL	399-1-63	12/1/2013	Maintenance required
	WELL	GROUNDWATER WELL	399-4-10	12/1/2013	Access Restricted
	WELL	GROUNDWATER WELL	699-S6-E4B	12/1/2013	Maintenance required
	WELL	GROUNDWATER WELL	699-S6-E4L	3/1/2014	Quarterly

**100/300 Areas Unit Managers Meeting  
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**Table 3 - Groundwater Sampling Locations in the River Corridor Areas Scheduled to be sampled in April 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-FR-5
199-B4-14		199-D2-11	199-H1-32	199-K-106A	199-K-131		
C8840		199-D2-11	199-H1-33	199-K-107A	199-K-149		
C8841		199-D2-11	199-H1-35	199-K-108A	199-K-150		
C8842		199-D2-6	199-H1-37	199-K-11	199-N-200		
C8843		199-D3-5	199-H1-38	199-K-110A	199-N-201		
C8844		199-D4-39	199-H1-40	199-K-111A	199-N-210		
C8845		199-D5-103	199-H1-7	199-K-113A	199-N-333		
C8847		199-D5-103	199-H2-1	199-K-114A	199-N-342		
C8848		199-D5-103	199-H3-10	199-K-115A	199-N-343		
C8849		199-D5-104	199-H3-3	199-K-116A			
C8851		199-D5-104	199-H3-4	199-K-119A			
C8852		199-D5-104	199-H3-5	199-K-120A			
C8853		199-D5-106	199-H3-6	199-K-124A			
C8855		199-D5-127	199-H3-7	199-K-125A			
C8856		199-D5-127	199-H3-9	199-K-127			
C8859		199-D5-132	199-H4-11	199-K-129			
C8860		199-D5-133	199-H4-12A	199-K-13			
		199-D5-133	199-H4-12C	199-K-132			
		199-D5-133	199-H4-15A	199-K-133			
		199-D5-142	199-H4-16	199-K-136			
		199-D5-143	199-H4-4	199-K-137			
		199-D5-145	199-H4-46	199-K-138			
		199-D5-145	199-H4-49	199-K-139			
		199-D5-145	199-H4-65	199-K-140			
		199-D5-146	199-H4-84	199-K-141			
		199-D5-147	199-H4-85	199-K-142			
		199-D5-17	199-H4-86	199-K-144			
		199-D5-18	199-H5-1A	199-K-145			
		199-D5-19	199-H6-1	199-K-146			
		199-D5-34	199-H6-3	199-K-147			
		199-D5-34	199-H6-4	199-K-148			
		199-D5-34	699-94-41	199-K-153			
		199-D5-39	699-94-43	199-K-154			
		199-D5-39	699-95-45	199-K-157			
		199-D5-39	699-97-41	199-K-161			
		199-D5-40	699-98-46	199-K-162			
		199-D5-41	699-99-41	199-K-163			
		199-D5-92	699-99-44	199-K-168			
		199-D5-97		199-K-171			
		199-D5-97		199-K-178			

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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-D5-97		199-K-181			
		199-D6-3		199-K-182			
		199-D8-71		199-K-184			
		699-93-48A		199-K-185			
		699-95-48		199-K-186			
		699-95-51		199-K-187			
		699-96-52B		199-K-188			
		699-97-51A		199-K-189			
		699-98-49A		199-K-19			
		699-98-51		199-K-190			
		C6266		199-K-191			
		C6267		199-K-192			
		C6268		199-K-193			
		C6269		199-K-194			
		C6270		199-K-196			
		C6271		199-K-197			
		DD-41-1		199-K-198			
		DD-41-2		199-K-199			
		DD-41-3		199-K-200			
		DD-42-2		199-K-201			
		DD-42-3		199-K-22			
		DD-42-4		199-K-23			
		DD-43-2		199-K-32A			
		DD-43-3		199-K-36			
		DD-44-3		199-K-37			
		DD-44-4		699-78-62			
		Redox-1-3.3					
		Redox-1-6.0					
		Redox-2-6.0					
		Redox-3-3.3					
		Redox-3-4.6					
		Redox-4-3.0					
		Redox-4-6.0					

# Attachment 2

May 8, 2014 Unit Manager's Meeting  
Field Remediation Status

**100-B/C**

- Completed remediation design for 100-B-35

**100-D**

- Continued remediation and stockpiling activities at 100-D-85:2 and 100-D-86:1
- Initiated and completed excavation at 100-D-69, 100-D-84:2 and 1607-D2:5
- Began removal of ISRM Pond
- Began remediation design of the 100-D-75:1 substation site
- Continued load-out to ERDF
- Continued LDR chromium shipments to ERDF

**100-H**

- Continued load-out to ERDF

**100-N**

- Completed demobilization activities at 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 demobilization of subcontractor, equipment and materials

**618-10 Trench Remediation**

- Continued excavation and sorting of trench area
- Continued waste load out
- Continued drum characterization & handling activities
- Continued VPU mockup and methods testing

**100-IU-2/6**

- Completed removal of all available Miscellaneous Restoration and Exit Items
- Complete mobilization activities for 600-349 UXO work and 600-20
- Initiated remediation at 600-20
- Completed plume chase at 600-378 and obtained replacement verification sample



# Attachment 3

**100K Area Unit Managers Meeting**  
**May 8, 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 have begun.
- 105-K West Basin Annex mezzanine structural steel installation is in-progress.
- The Integrated Process Optimization Demonstration continues at MASF. Multiplexer control panel testing will start in mid-May.

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 at 100K during April.
- 105KE Roof Repairs. Repairs to the 105-KE roof will be made through use of a man lift to access the damaged area. A contract to install a land bridge and pad for the man lift was awarded on March 31, 2014, and the work was completed on April 23, 2014. A Hazard Review Board (HRB) is scheduled for May 12, 2014, to evaluate and concur with the proposed path forward. Repair work will commence following approval of the HRB and completion of any follow on actions identified by the HRB. Current schedules call for completion of the repairs by the end of May. Repairs to the 105-KW roof will follow completion of the 105-KE roof. Asbestos renovation work and disposal of asbestos containing waste material will be done in accordance with the substantive requirements of the Asbestos NESHAP.
- 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 discussed and CHPRC has begun the estimate definitization and field work planning.
- 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.

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# Attachment 4

UMM B/C SCHEDULE

Activity ID	Activity Name	% Compl	RD	Start	Finish	M	J	J	A	S	O
2	2	2	2	2	2	2	2	2	2	2	2

**600-253 Waste Site (Pit 24)**

**Backfill**

BC508C 600-253 (Pit 24) Recontouring 0% 16 11-Aug-14\* 08-Sep-14

**Revegetation**

BC508E2 600-253 (Pit 24) Plant Reveg/Sage (40 acres) 0% 4 03-Nov-14\* 06-Nov-14

**100-B-35 - 152-B1 Secondary Substation**

**Excavation**

BB524A70 100-B-35 Design 60% 20 24-Mar-14 A 02-Jun-14  
 BB524A120 100-B-35 Design Review 100% 0 22-Apr-14 A 22-Apr-14 A  
 BB524A10 100-B-35 Excavation 0% 35 26-Jun-14\* 27-Aug-14  
 BB524A260 100-B-35 - FY14 ETC 0% 30 28-Jul-14\* 17-Sep-14

**Loadout**

BB524B10 100-B-35 Loadout 0% 35 09-Jul-14\* 09-Sep-14

**Closeout Sampling & Docs**

BB524D61 Prepare Work Instructions for 100-B-35  
 BB524D71 RL/Reg Rview Draft A WI for 100-B-35 0% 26 28-Aug-14 14-Oct-14  
 BB524D81 RL/Reg Sign Rev. 0 WI for 100-B-35 0% 0 06-Nov-14 06-Nov-14  
 BB524D91 Closure Sampling & Analysis for 100-B-35 0% 0 06-Nov-14 06-Nov-14  
 BB524D91 Closure Sampling & Analysis for 100-B-35 0% 28 06-Nov-14 05-Jan-15

**Final Project Closeout**

BB524D101 Prepare Closure Document 100-B-35 0% 72 14-Jan-15 21-May-15  
 BB524D121 RL/Reg Review Draft A Closure Doc for 100-B-35 0% 0 17-Mar-15 17-Mar-15  
 BB524D131 RL/Reg Sign Rev. 0 Closure Doc for 100-B-35 0% 0 21-May-15 21-May-15

**Backfill**

BB524C10 100-B-35 Backfill 0% 5 17-Mar-15 25-Mar-15

**Revegetation**

BB524E10 100-B-35 Revegetation 0% 5 25-Mar-15 02-Apr-15

# Attachment 5

## **100 Area D4/ISS Status**

May 8, 2014

### **100-N**

**100-N Miscellaneous Items** – Demobilization from 100-N complete.

### **100-B**

**183-B Clearwells** – Completed north clearwell demolition and continued load-out; south clearwell backfill 60% complete.

**MO-474** – Continued planning activities for deactivation, hazardous material removal, and demolition.

# Attachment 6



Activity ID	Activity Name	RD	Start	Finish	% Cmpl	May 2014							June 2014							July 2014									
						21	28	05	12	19	26	02	09	16	23	30	06	13	20	27	03	10	17	24	31	07	14	21	
<b>Backfill</b>																													
NB525C	Backfill - 100-N-61 (incl 100-N-64) 112,271 BCMS		28	20-Jan-14 A	16-Jun-14	7%																							
NB578C10	Backfill - 100-N-63		10	27-Jan-14 A	13-May-14	87%																							
NB528C	Backfill - 116-N-2		3	05-Feb-14 A	30-Apr-14	99%																							
NB537C	Backfill - 124-N-3 (0 BCMS)		1	02-Jun-14	02-Jun-14	0%																							
NB517C	Backfill - 100-N-36 (0 BCMS)		1	02-Jun-14	02-Jun-14	0%																							
NB578C30	Backfill - 100-N-63 (39,518 BCMS)		10	02-Jun-14*	17-Jun-14	0%																							
NB578C20	Backfill - 100-N-63 AUW		10	02-Jun-14	17-Jun-14	0%																							
NB573C	Backfill - UPR-100-N-5 (0 BCMS)		1	18-Jun-14	18-Jun-14	0%																							
NB528C10	Backfill - 116-N-2 (12,010 BCMS)		3	18-Jun-14	23-Jun-14	0%																							
NB560C	Backfill - UPR-100-N-25 (0 BCMS)		1	18-Jun-14	18-Jun-14	0%																							
NB570C	Backfill - UPR-100-N-4 (63 BCMS)		1	24-Jun-14	24-Jun-14	0%																							
NB539C	Backfill - 124-N-9 (0 BCMS)		1	24-Jun-14	24-Jun-14	0%																							
NB565C	Backfill - UPR-100-N-31 (5,872 BCMS)		1	24-Jun-14	24-Jun-14	0%																							
NB576C	Backfill - UPR-100-N-8 (28 BCMS)		1	24-Jun-14	24-Jun-14	0%																							
NB535C	Backfill - 124-N-10 (9,978 BCMS)		2	25-Jun-14	26-Jun-14	0%																							
NB541C	Backfill - 130-N-1 (10,000 BCMS)		3	30-Jun-14	02-Jul-14	0%																							
NB568C10	Backfill - UPR-100-N-36 AUW		2	07-Jul-14	08-Jul-14	0%																							
NB568C	Backfill - UPR-100-N-36 (8,153 BCMS)		2	07-Jul-14	08-Jul-14	0%																							
NB529C	Backfill - 116-N-4 (5,951 BCMS)		2	09-Jul-14	10-Jul-14	0%																							
NB562C	Backfill - UPR-100-N-29 (0 BCMS)		1	14-Jul-14	14-Jul-14	0%																							
NB566C	Backfill - UPR-100-N-32 (0 BCMS)		1	14-Jul-14	14-Jul-14	0%																							
NB564C	Backfill - UPR-100-N-30 (0 BCMS)		1	14-Jul-14	14-Jul-14	0%																							
NB545C	Backfill - UPR-100-N-1 (0 BCMS)		1	14-Jul-14	14-Jul-14	0%																							
NB521C	Backfill - 100-N-57 (4,296 BCMS)		1	14-Jul-14	14-Jul-14	0%																							
NB554C	Backfill - UPR-100-N-2 (0 BCMS)		1	14-Jul-14	14-Jul-14	0%																							
NB567C	Backfill - UPR-100-N-35 (170 BCMS)		1	15-Jul-14	15-Jul-14	0%																							
NB550C	Backfill - UPR-100-N-14 (182 BCMS)		1	15-Jul-14	15-Jul-14	0%																							
NB577C	Backfill - UPR-100-N-9 (0 BCMS)		1	15-Jul-14	15-Jul-14	0%																							
NB531C	Backfill - 118-N-1 (11,549 BCMS)		3	16-Jul-14	21-Jul-14	0%																							
NB587C	Backfill - 100-N-79 (672.58 BCM)		1	22-Jul-14	22-Jul-14	0%																							
NB5C1C	Backfill - 100-N-84:8 (0 BCM)		1	22-Jul-14	22-Jul-14	0%																							
NB542C	Backfill - 1908-N (0 BCMS)		1	22-Jul-14	22-Jul-14	0%																							
NB536C	Backfill - 124-N-2 (1,554 BCMS)		1	22-Jul-14	22-Jul-14	0%																							
NB592C	Backfill - 100-N-62 (3,563 BCM)		1	23-Jul-14	23-Jul-14	0%																							
NB508C	Backfill - 100-N-24 (0 BCMS)		1	24-Jul-14	24-Jul-14	0%																							
NB593C	Backfill - 100-N-28 (2,504 BCM)		1	24-Jul-14	24-Jul-14	0%																							
NB548C	Backfill - UPR-100-N-12 (0 BCMS)		1	28-Jul-14	28-Jul-14	0%																							
NB525C21	Backfill - 100-N-61 (incl 100-N-64) 112,271 BCMS		28	28-Jul-14	15-Sep-14	0%																							
NB525C11	Backfill - 100-N-61 (incl 100-N-64) AUW		28	28-Jul-14*	15-Sep-14	0%																							

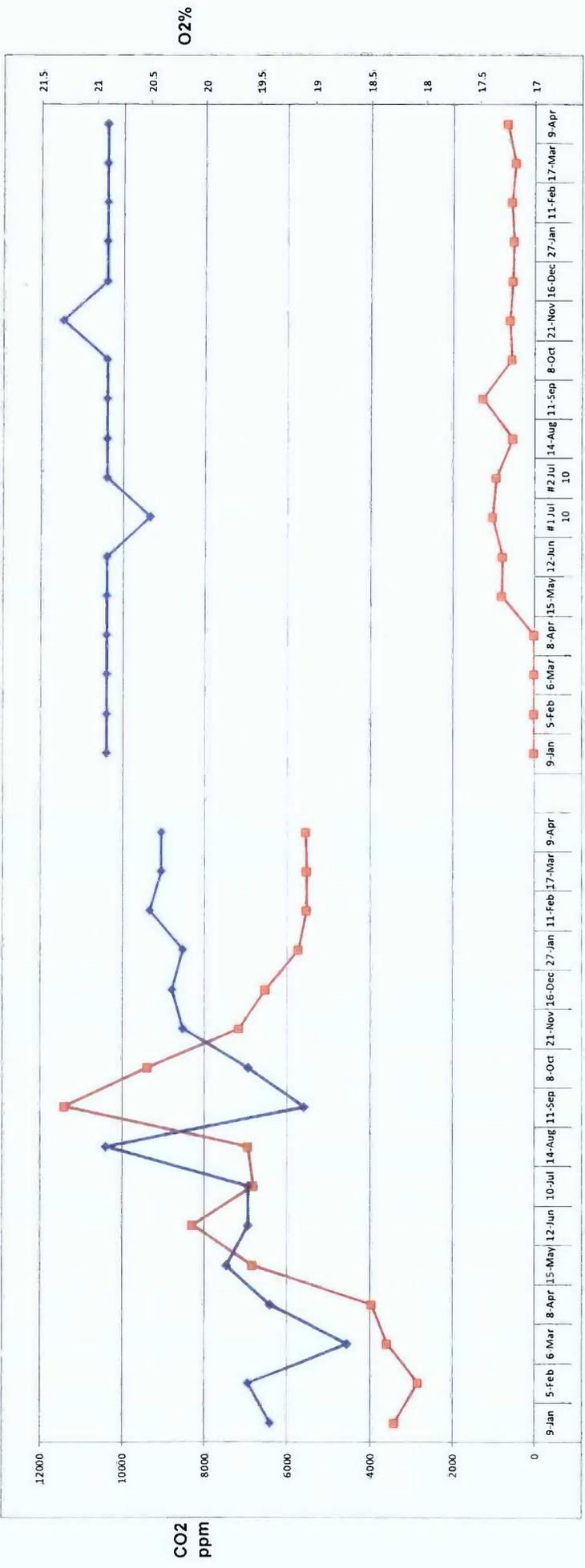
Data Date: 28-Apr-14

Actual Work
  Milestone
  Actual Milestone
  % Complete





# Attachment 7



**BIOVENT WELL SAMPLE RESULTS**

Well #	Date	O2%	CO2 ppm	Well #	Date	O2%	CO2 ppm
199-N-171	9-Jan	19.4	3400	199-N-169	9-Jan	20.9	0
	5-Feb	19.6	2840		5-Feb	20.9	0
	6-Mar	18.7	3570		6-Mar	20.9	0
	8-Apr	19.4	3960		8-Apr	20.9	0
	15-May	19.8	6820		15-May	20.9	800
	12-Jun	19.6	8290		12-Jun	20.9	780
	10-Jul	19.6	6000		#1 Jul 10	20.5	1020
	14-Aug	20.9	6940		#2 Jul 10	20.9	920
	11-Sep	19.1	11400		14-Aug	20.9	530
	8-Oct	19.6	9380		11-Sep	20.9	1250
	21-Nov	20.2	7160		8-Oct	20.9	550
	16-Dec	20.3	6520		21-Nov	21.3	600
	27-Jan	20.2	5720		16-Dec	20.9	530
	11-Feb	20.5	5520		27-Jan	20.9	500
	17-Mar	20.4	5520		11-Feb	20.9	550
	9-Apr	20.4	5560		17-Mar	20.9	470
					9-Apr	20.9	660

O2%

CO2 ppm

# Attachment 8

175605

**From:** Saueressig, Daniel G  
**Sent:** Monday, April 21, 2014 4:10 PM  
**To:** ^WCH Document Control  
**Subject:** FW: NON CONTIGUOUS ONSITE APPROVAL REQUEST  
Please provide a chron number. 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](mailto:Guzzetti.Christopher@epa.gov)]  
**Sent:** Monday, April 21, 2014 4:09 PM  
**To:** Elliott, Wanda; Saueressig, Daniel G; Kapell, Arthur  
**Subject:** RE: NON CONTIGUOUS ONSITE APPROVAL REQUEST

If Ecology does not have an issue.

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](mailto:guzzetti.christopher@epa.gov)

---

**From:** Elliott, Wanda (ECY) [mailto:[well461@ECY.WA.GOV](mailto:well461@ECY.WA.GOV)]  
**Sent:** Monday, April 21, 2014 3:07 PM  
**To:** 'Saueressig, Daniel G'; Guzzetti, Christopher; Kapell, Arthur (ECY)  
**Subject:** RE: NON CONTIGUOUS ONSITE APPROVAL REQUEST

I concur if the receiving site has no objections.

*Wanda Elliott*  
(509) 372-7904  
Environmental Scientist  
Nuclear Waste Program  
Washington State Department of Ecology



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**From:** Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]  
**Sent:** Monday, April 21, 2014 2:55 PM  
**To:** Guzzetti, Christopher; Elliott, Wanda (ECY)  
**Cc:** Kapell, Arthur (ECY)  
**Subject:** NON CONTIGUOUS ONSITE APPROVAL REQUEST

Chris/Wanda, we will be generating some sample waste (PPE, plastic spoons, etc.) from verification sampling at 100-N. Since our subcontractor at 100-N has demobilized we have nowhere to store this material. I'd like to request a non-contiguous onsite approval to store this waste at the 100-D CTA pending return of sample data prior to disposal. An ERDF can will be staged in the 100-D CTA to accumulate this sample waste. The can will not be shipped to ERDF until sample data is returned confirming the status of the waste.

Let me know if you concur.

Thanks,

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

# Attachment 9

175732

**^WCH Document Control**

---

**From:** Saueressig, Daniel G  
**Sent:** Monday, May 05, 2014 12:19 PM  
**To:** ^WCH Document Control  
**Subject:** FW: 100-N-84:5 SAMPLE RELOCATION  
**Attachments:** 100-N-84\_5 sample S-EXC-3 move.docx

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:** Chance, Joanne C [<mailto:joanne.chance@rl.doe.gov>]  
**Sent:** Monday, May 05, 2014 11:50 AM  
**To:** Saueressig, Daniel G  
**Cc:** Elliott, Wanda  
**Subject:** RE: 100-N-84:5 SAMPLE RELOCATION

Hi Dan,

I also concur with this approach. Thanks.

Joanne C. Chance  
U.S. Department of Energy  
Office of Assistant Manager for River and Plateau  
825 Jadwin Ave / MSIN A3-04  
Richland, WA 99352  
(509) 376-0811

---

**From:** Elliott, Wanda (ECY) [<mailto:well461@ecy.wa.gov>]  
**Sent:** Monday, May 05, 2014 6:54 AM  
**To:** Saueressig, Daniel G; Chance, Joanne C  
**Subject:** RE: 100-N-84:5 SAMPLE RELOCATION

I concur with the approach.

*Wanda Elliott*  
(509) 372-7904  
Environmental Scientist  
Nuclear Waste Program  
Washington State Department of Ecology

---

**From:** Saueressig, Daniel G [mailto:daniel.saueressig@wch-rcc.com]  
**Sent:** Monday, May 05, 2014 6:50 AM  
**To:** Elliott, Wanda (ECY); Chance, Joanne C  
**Subject:** 100-N-84:5 SAMPLE RELOCATION

Wanda/Joanne, during remediation of the southern portion of 100-N-84:5 a portion of the site was not excavated since it went into the foundation of the old 185-N HGP building footprint (this portion of 100-N-84:5 was removed with construction of the 185-N). Unfortunately one of the statistical samples in the VWI for the site fell in this location. WCH would like to propose closing the site based on 11 statistical samples and one focused sample as discussed in the attached proposal.

Let me know if you concur with the attached approach and I'll document your concurrence at the next UMM.

Thanks,

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

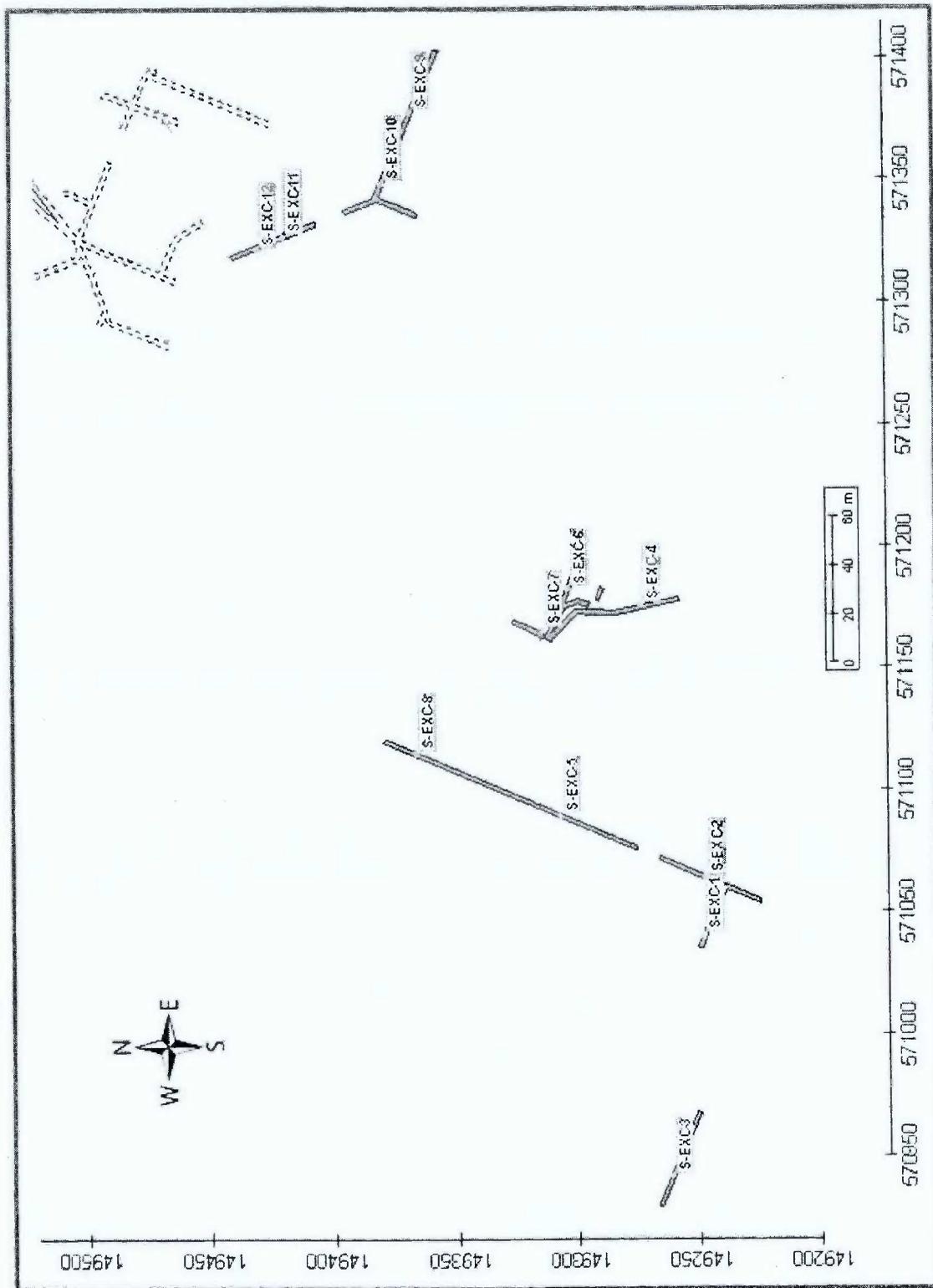
<< File: 100-N-84\_5 sample S-EXC-3 move.docx >>

The 100-N-84:5 verification work instruction identified 12 statistical verification samples for the southern portion of the pipeline segments (Figure 1). During the verification sampling event, it was discovered that one sample location (S-EXC-3) fell within an area that was not excavated; therefore, the sample location was moved to the closest excavated area (Figure 2). The sample design was based on a one meter boundary around the WIDS pipeline location rather than the post-excavation civil survey.

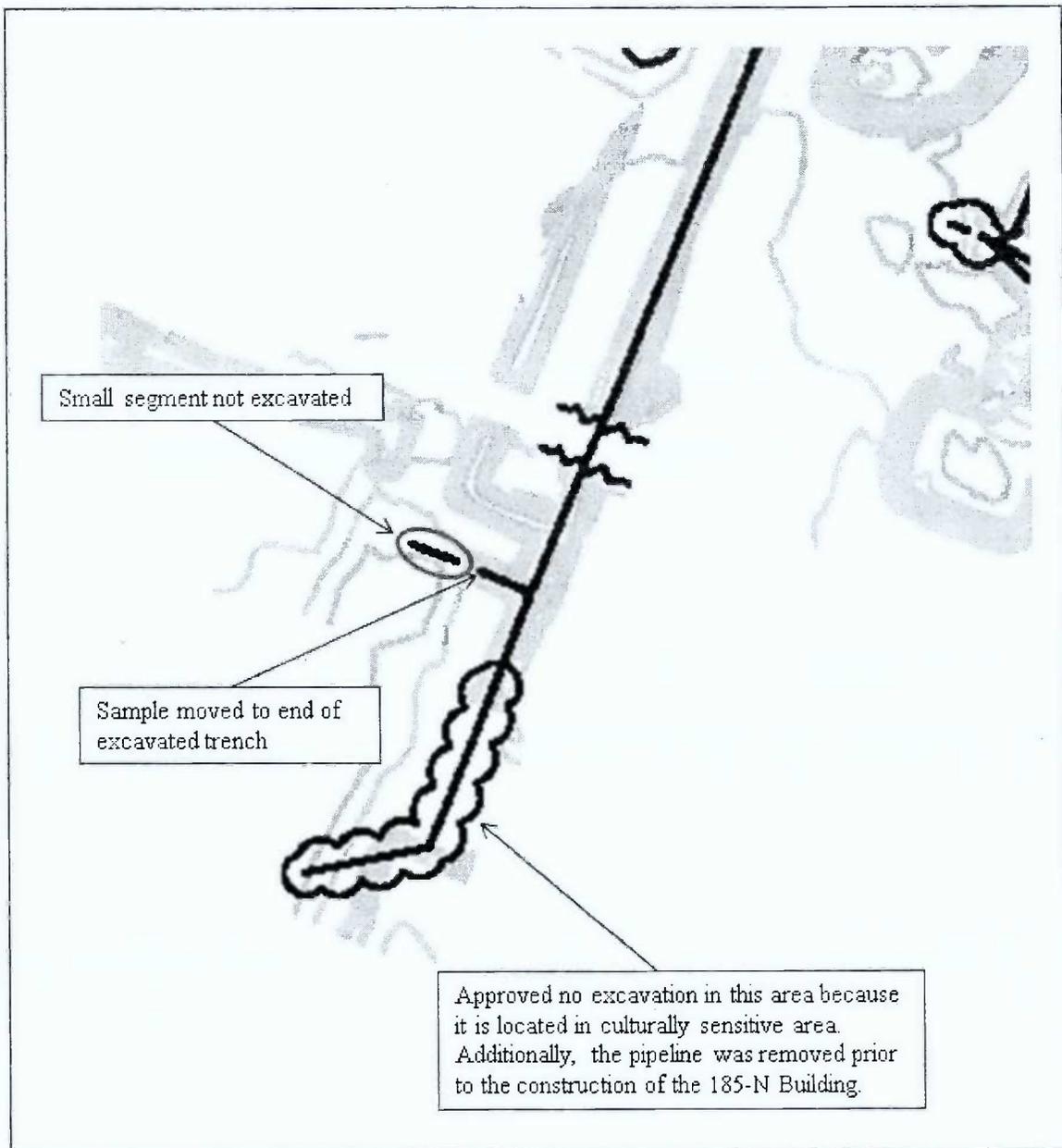
The portion of the 100-N-84:5 pipeline that was not excavated was removed during the construction of the 185-N building. The pipeline and septic tank were added to the 100-N-84:5 waste site based on review of historical drawings H-1-44199, sheet 1, revision 1 (KEH 1980) and H-6-4085, sheet 1, revision 0 (B&R 1964). The H-1-44199 drawing shows a septic tank and associated pipeline located at approximately Washington State Plane coordinates N149245, E571046. Although the septic tank and pipeline are shown on revision 1 of the H-1-44199 drawing, it is believed that they were removed prior to 1980. Figure 3 shows a circa 1966 aerial photograph of the 185-N Building construction with a 2013 geophysical survey of 100-N-84:5 pipeline, septic tank, and cesspool overlaid. By lining up the outline of the 163-N/183-N and 1703-N Buildings coordinates with the aerial photo, it shows that the south end of the 100-N-84:5 pipeline, septic tank, and cesspool were removed from inside the excavation for the (-) 50 foot basement of the 185-N building.

Because the segments of the 100-N-84:5 septic tank, cesspool, and pipeline were removed during the construction of the former 185-N building, WCH requests DOE and Ecology concurrence to move forward with site closure with 11 statistical samples and one focused sample. The statistical sample location S-EXC-3 will be evaluated as a focused sample.

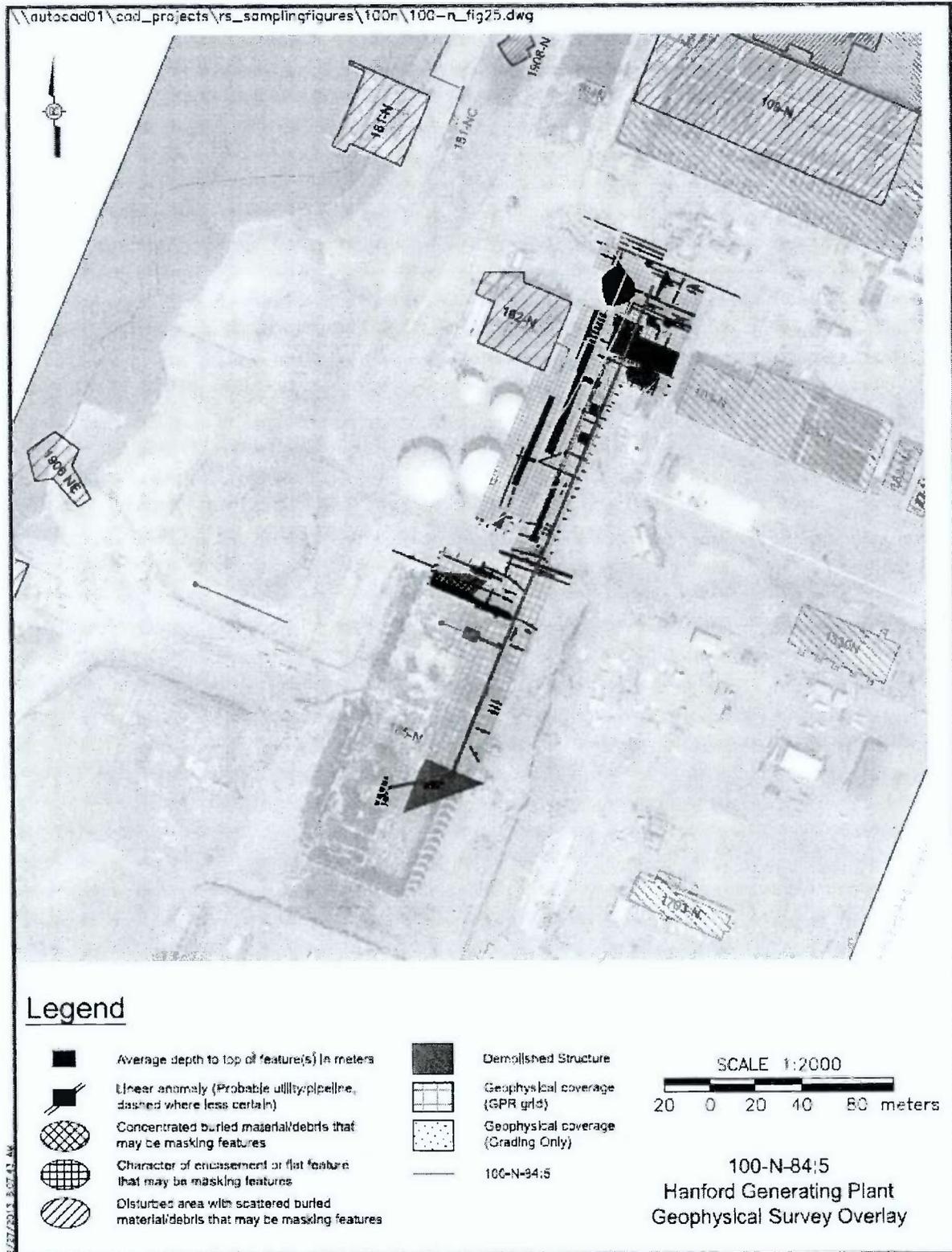
Figure 1. 100-N-84:5 South Excavation Verification Sample Locations



**Figure 2. Location of Segment Not Excavated and New Sample Location.**



**Figure 3. 100-N-84:5 Waste Site Geophysical Survey Overlaid on 185-N Construction Aerial Photograph (Circa 1966).**



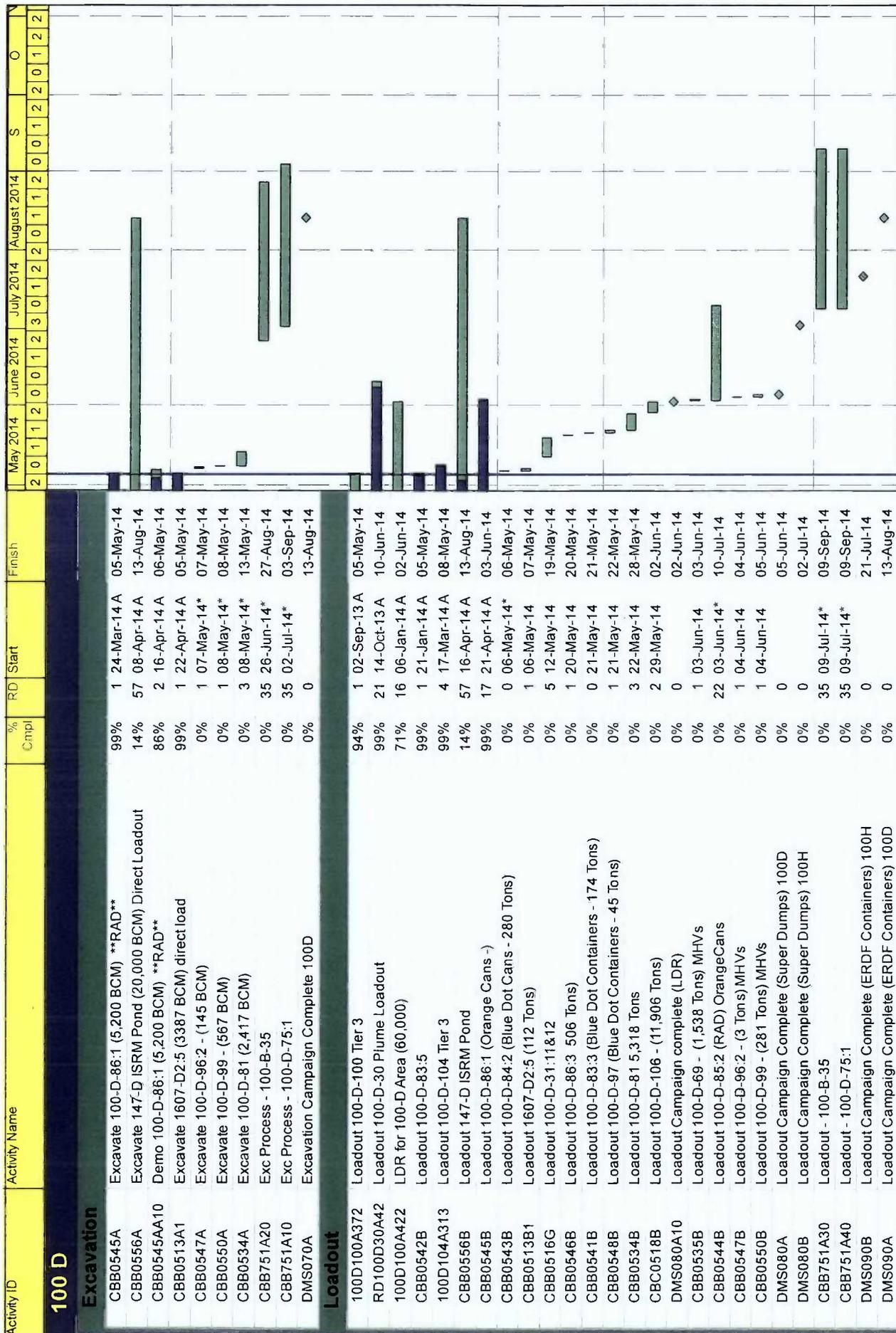
## REFERENCES

B&R, 1964, Civil Turbine Generator Building 185-N Unit NO182 Demolition Plan, H-6-4085, sheet 1, Rev 1, Burns and Roe, Inc., New York, New York.

KEH, 1980, TC Sanitary Sewer, H-1-44199, sheet 1, Rev 1, Kaiser Engineers Hanford Company, Richland, Washington.

WCH, 2011, *100-N-84:5 100-N Area Sanitary Pipelines for Remedial Action*, CCN 163085, Washington Closure Hanford, Richland, Washington.

# Attachment 10



TASK filter: 100-DH UMM Content.

Data Date: 05-May-14

SPIF Bar
  Remaining Work
  Actual Critical Work
  Remaining Level of Effort

Activity ID	Activity Name	RD Start	RD End	% Cmpl	Finish	May 2014	June 2014	July 2014	August 2014	S	O
<b>Non Site Specific Support</b>											
RDCONT5323	100-D Exit Items	66	10-Feb-14 A	85%	28-Aug-14	2	0	1	1	2	0
RDCONT5403	Backfill Campaign for 100-D/H	0	01-Oct-14*	0%		1	2	0	0	1	2
<b>100 H</b>											
<b>Excavation</b>											
HB511A023	Demo 100-H-28:2-3 Concrete Demolition and Size Reduction	1	30-Jul-13 A	99%	05-May-14						
HB525A	Excavate 100-H-51:1 (1,793 BCM)	2	17-Mar-14 A	99%	06-May-14						
DMS070B	Excavation Campaign Complete 100H	0	0	0%	21-Jul-14						
<b>Loadout</b>											
HB512B	Loadout 100-H-28:3 11,518 Tons	6	17-Jul-13 A	99%	08-Jul-14						
HB511B04	Loadout 100-H-28:2	19	02-Oct-13 A	36.5%	05-Jun-14						
HB517B	Loadout 100-H-44 (Blue Dot - 20,000 Tons)	1	17-Feb-14 A	99%	05-May-14						
HB513B4	Loadout 100-H-28:4 2,202 Tons	24	24-Feb-14 A	6%	16-Jun-14						
HB528B	Loadout 100-H-59 (16,903 Tons)	0	08-Apr-14 A	68%	05-May-14						
HB526B	Loadout 100-H-51:3 (330 Tons)	1	28-Apr-14 A	99%	05-May-14						
HB515B	Loadout 100-H-42 (Orange Cans -	8	05-May-14*	0%	15-May-14						
HB516B	Loadout 100-H-43 (Blue Dot - 1,803 Tons)	2	05-Jun-14	0%	09-Jun-14						
HB519B	Loadout 100-H-48 951 Tons	2	10-Jun-14	0%	11-Jun-14						
HB514B	Loadout 100-H-28:5 (Blue Dot - 4,096 Tons)	7	17-Jun-14*	0%	26-Jun-14						
HB512B11	Loadout 100-H-28:3 BlueDot	2	19-Jun-14*	0%	23-Jun-14						
HB525B	Loadout 100-H-51:1 (686 Tons)	3	26-Jun-14	0%	01-Jul-14						
HB526B10	Loadout 100-H-51:6 (1,676 Tons)	1	02-Jul-14	0%	02-Jul-14						
HB524B	Loadout 100-H-49:1 (135 Tons)	3	09-Jul-14*	0%	14-Jul-14						
HB528B10	Loadout 100-H-59	4	14-Jul-14	0%	17-Jul-14						
HB520B	Loadout 100-H-51:2 (Direct Load - 336 Tons) Blue Dot	0	21-Jul-14	0%	21-Jul-14						
<b>Backfill</b>											
HB518C	Backfill 100-H-46 (85,500 BCM)	17	09-Sep-14*	0%	07-Oct-14						
<b>Non Site Specific Support</b>											
HNSSETC12	100-H Mobile Infrastructure	42	01-Oct-13 A	56%	17-Jul-14						
HNSSETC2	100-H Exit Items	112	19-Mar-14 A	35%	19-Nov-14						

TASK filter: 100-DH UMM Content.

Data Date: 05-May-14

# Attachment 11

## TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 616	<b>TPA CHANGE NOTICE FORM</b>	Date: 04/22/2014
Document Number, Title, and Revision: DOE/RL-97-01, <i>Interim Action Waste Management Plan for the 100-HR-3 and 100-KR-4 Operable Units</i> , Rev. 5		Date Document Last Issued: 8/02/2005
Originator: Rick Oldham		Phone: 372-2426

**Description of Change:**

Update Appendix A, Table A-1 of the HR-3/KR-4 Waste Management Plan to add 4 characterization borings at 100-D-100 waste site.

\_\_\_\_\_ B.L. Charboneau \_\_\_\_\_ and \_\_\_\_\_ N. Menard \_\_\_\_\_ agree that the proposed change  
**DOE** **Ecology**  
 modifies an approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement*.

Table A-1 of DOE/RL-97-01, Rev. 5, is revised to add wells 199-D5-155, 199-D5-156, 199-D5-157, and 199-D5-158.

Added text is denoted by double underline.

The page numbers of the tables in Revision 5, Appendix A, of DOE/RL-97-01 do not directly correspond to the page numbers of the revised tables in the appendices, due to change notice revisions since Revision 5 was issued in 2005. These changes have expanded the length of the tables, changing the corresponding page numbers. The page numbers for Table A-1 will be updated when the document is revised.

**Justification and Impacts of Change:**

New wells are being added to Table A-1 of DOE/RL-97-01, Rev. 5, for the following purpose:

Wells 199-D5-155, 199-D5-156, 199-D5-157, and 199-D5-158 will support characterization and remediation at waste site 100-D-100.

**Approvals:**

  
 DOE Project Manager  
 N/A

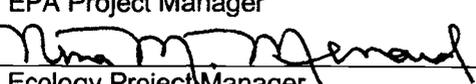
4/22/14  
 Date

Approved  Disapproved

EPA Project Manager

Date

Approved  Disapproved

  
 Ecology Project Manager

4/22/14  
 Date

Approved  Disapproved

618 vmd 4/22/14

Table A-1. 100-HR-3 Operable Unit Well List

Well Name/ID				
199-D2-10	199-D4-34	199-D4-69	199-D5-104	199-D5-141
199-D2-11	199-D4-35	199-D4-7	199-D5-105	199-D5-143
199-D2-12	199-D4-36	199-D4-70	199-D5-106	199-D5-144
199-D2-6	199-D4-37	199-D4-71	199-D5-107	199-D5-145
199-D2-8	199-D4-38	199-D4-72	199-D5-108	199-D5-146
199-D2-9	199-D4-39	199-D4-73	199-D5-109	199-D5-147
199-D3-2	199-D4-4	199-D4-74	199-D5-110	199-D5-148
199-D3-3	199-D4-40	199-D4-75	199-D5-111	199-D5-15
199-D3-4	199-D4-41	199-D4-76	199-D5-112	199-D5-153
199-D3-5	199-D4-42	199-D4-77	199-D5-113	199-D5-154
199-D4-1	199-D4-43	199-D4-78	199-D5-114	<u>199-D5-155</u>
199-D4-10	199-D4-44	199-D4-79	199-D5-115	<u>199-D5-156</u>
199-D4-101	199-D4-45	199-D4-8	199-D5-116	<u>199-D5-157</u>
199-D4-11	199-D4-46	199-D4-80	199-D5-117	<u>199-D5-158</u>
199-D4-12	199-D4-47	199-D4-81	199-D5-118	199-D5-16
199-D4-13	199-D4-48	199-D4-82	199-D5-119	199-D5-17
199-D4-14	199-D4-49	199-D4-83	199-D5-120	199-D5-18
199-D4-15	199-D4-5	199-D4-84	199-D5-121	199-D5-19
199-D4-16	199-D4-50	199-D4-85	199-D5-122	199-D5-20
199-D4-17	199-D4-51	199-D4-86	199-D5-123	199-D5-32
199-D4-18	199-D4-52	199-D4-87	199-D5-125	199-D5-33
199-D4-19	199-D4-53	199-D4-88	199-D5-126	199-D5-34
199-D4-2	199-D4-54	199-D4-89	199-D5-127	199-D5-36
199-D4-20	199-D4-55	199-D4-9	199-D5-128	199-D5-37
199-D4-21	199-D4-56	199-D4-90	199-D5-129	199-D5-38
199-D4-22	199-D4-57	199-D4-91	199-D5-13	199-D5-39
199-D4-23	199-D4-58	199-D4-92	199-D5-130	199-D5-40
199-D4-24	199-D4-59	199-D4-93	199-D5-131	199-D5-41
199-D4-25	199-D4-6	199-D4-94	199-D5-132	199-D5-42
199-D4-26	199-D4-60	199-D4-95	199-D5-133	199-D5-43
199-D4-27	199-D4-61	199-D4-96	199-D5-134	199-D5-44
199-D4-28	199-D4-62	199-D4-97	199-D5-135	199-D5-92
199-D4-29	199-D4-63	199-D4-98	199-D5-136	199-D5-97
199-D4-3	199-D4-64	199-D4-99	199-D5-137	199-D5-98
199-D4-30	199-D4-65	199-D5-100	199-D5-138	199-D5-99
199-D4-31	199-D4-66	199-D5-101	199-D5-139	199-D6-1
199-D4-32	199-D4-67	199-D5-102	199-D5-14	199-D6-2
199-D4-33	199-D4-68	199-D5-103	199-D5-140	199-D6-3

6/18 lmd 4/22/14

Table A-1. 100-HR-3 Operable Unit Well List

Well Name/ID				
199-D7-3	199-H1-34	199-H4-15B	199-H4-80	699-92-49
199-D7-4	199-H1-35	199-H4-15C	199-H4-81	699-93-48A
199-D7-5	199-H1-36	199-H4-15CP	199-H4-82	699-93-50
199-D7-6	199-H1-37	199-H4-15CQ	199-H4-85	699-94-43
199-D8-100	199-H1-38	199-H4-15CR	199-H4-86	699-95-45
199-D8-4	199-H1-39	199-H4-15CS	199-H4-9	699-95-48
199-D8-5	199-H1-4	199-H4-16	199-H4-90	699-95-51
199-D8-53	199-H1-40	199-H4-17	199-H4-91	699-96-43
199-D8-54A	199-H1-42	199-H4-18	199-H5-10	699-96-44
199-D8-54B	199-H1-43	199-H4-2	199-H5-11	699-96-45
199-D8-55	199-H1-45	199-H4-3	199-H5-12	699-96-49
199-D8-6	199-H1-5	199-H4-4	199-H5-13	699-96-49P
199-D8-68	199-H1-6	199-H4-45	199-H5-14	699-96-52B
199-D8-69	199-H1-7	199-H4-46	199-H5-1A	699-97-41
199-D8-70	199-H2-1	199-H4-47	199-H5-2	699-97-43
199-D8-71	199-H3-10	199-H4-48	199-H5-30	699-97-43B
199-D8-72	199-H3-25	199-H4-49	199-H5-3P	699-97-43C
199-D8-73	199-H3-26	199-H4-5	199-H5-40	699-97-45
199-D8-88	199-H3-27	199-H4-6	199-H5-4P	699-97-48B
199-D8-89	199-H3-2A	199-H4-63	199-H5-50	699-97-48C
199-D8-90	199-H3-2B	199-H4-64	199-H5-5P	699-97-51A
199-D8-91	199-H3-2C	199-H4-65	199-H5-6	699-98-43
199-D8-93	199-H3-3	199-H4-66	199-H5-7	699-98-46
199-D8-94	199-H3-4	199-H4-67	199-H5-8	699-98-49A
199-D8-95	199-H3-5	199-H4-68	199-H5-9	699-98-51
199-D8-96	199-H3-6	199-H4-69	199-H6-1	699-99-41
199-D8-97	199-H3-7	199-H4-7	199-H6-2	699-99-42
199-D8-98	199-H3-8	199-H4-70	199-H6-3	B8253
199-D8-99	199-H3-9	199-H4-71	199-H6-4	B8254
199-H1-1	199-H4-1	199-H4-72	699-101-48B	B8255
199-H1-2	199-H4-10	199-H4-73	699-83-47	B8256
199-H1-20	199-H4-11	199-H4-74	699-88-41	B8257
199-H1-21	199-H4-12A	199-H4-75	699-89-35	B8258
199-H1-25	199-H4-12B	199-H4-76	699-90-34	B8259
199-H1-27	199-H4-12C	199-H4-77	699-90-37B	B8260
199-H1-3	199-H4-13	199-H4-78	699-90-38	B8261
199-H1-32	199-H4-14	199-H4-79	699-90-45	B8262
199-H1-33	199-H4-15A	199-H4-8	699-91-46A	B8263

618 vmd 4/22/14

Table A-1. 100-HR-3 Operable Unit Well List

Well Name/ID				
B8265	B8305	B8475	B8820	C6268
B8266	B8306	B8476	B8821	C6269
B8267	B8307	B8477	C3382	C6270
B8269	B8308	B8478	C3383	C6271
B8270	B8309	B8479	C3384	C6272
B8271	B8310	B8480	C3385	C6275
B8272	B8311	B8481	C3512	C6278
B8273	B8312	B8482	C3513	C6281
B8274	B8313	B8483	C3514	C6282
B8275	B8314	B8484	C3515	C6284
B8276	B8315	B8503	C4305	C6285
B8277	B8319	B8504	C4306	C6286
B8278	B8320	B8505	C4307	C6287
B8280	B8321	B8506	C4308	C6288
B8281	B8322	B8507	C4309	C6290
B8283	B8323	B8508	C4310	C6291
B8284	B8324	B8509	C4311	C6293
B8285	B8325	B8510	C4312	C6296
B8286	B8326	B8511	C4313	C6297
B8289	B8327	B8512	C4314	C6299
B8290	B8328	B8513	C4315	C6300
B8292	B8329	B8514	C4316	C6301
B8293	B8330	B8515	C4317	C6846
B8294	B8464	B8516	C4318	C7850
B8295	B8465	B8517	C4319	C7851
B8296	B8466	B8518	C4320	C7852
B8297	B8467	B8519	C4321	C7855
B8298	B8468	B8520	C4322	C7856
B8299	B8469	B8521	C4323	C7860
B8300	B8470	B8522	C4324	C7862
B8301	B8471	B8523	C4325	C7864
B8302	B8472	B8524	C4326	
B8303	B8473	B8525	C6266	
B8304	B8474	B8819	C6267	

# Attachment 12

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	14	May 2014	June 2014	July 2014	A	S	O
<b>600-326</b>												
<b>Excavation</b>												
IU222640	Excavation 600-326 (IU-6) *CULTURAL HOLD	0%	3	08-Sep-15*	10-Sep-15							
<b>Loadout</b>												
IU222650	Loadout 600-326 *CULTURAL HOLD	0%	3	14-Sep-15*	16-Sep-15							
<b>Closeout Sampling &amp; Docs</b>												
IU222710	Closure Sampling 600-326	0%	26	01-Oct-15	16-Nov-15							
<b>Final Project Closeout</b>												
IU222720	Prepare Closure Document 600-326	0%	83	17-Nov-15	19-Apr-16							
IU222730	RL/Reg Review of Draft A Closure Document 600-326	0%	26	28-Jan-16	15-Mar-16							
IU222740	RL/Reg Signature Rev.0 Closure Document 600-326	0%	4	13-Apr-16	19-Apr-16							
<b>Backfill</b>												
IU222660	Backfill 600-326	0%	1	20-Apr-16*	20-Apr-16							
<b>Revegetation</b>												
IU222680	Revegetation 600-326	0%	1	21-Nov-16*	21-Nov-16							
<b>Culture Resource Reviews</b>												
IU225110	Cultural / Eco Clearance 600-326 *CULTURAL HOLD	5%	87	26-Jun-13 A	30-Sep-14							
<b>600-383</b>												
<b>Excavation</b>												
IU225450	Excavation 600-383 (D/H Boundary Site)	98%	1	31-Oct-13 A	28-Apr-14							
<b>Loadout</b>												
IU225350	Loadout 600-383	98%	1	31-Oct-13 A	28-Apr-14							
<b>Final Project Closeout</b>												
IU225380	Prepare Closure Document 600-383	69%	56	26-Mar-14 A	05-Aug-14							
IU225390	RL/Reg Review of Draft A Closure Document 600-383	0%	26	07-May-14	23-Jun-14							
IU225400	RL/Reg Signature Rev.0 Closure Document 600-383	0%	4	23-Jul-14	29-Jul-14							
<b>Backfill</b>												
IU225430	Backfill 600-383	0%	1	09-Sep-14	09-Sep-14							
<b>Revegetation</b>												
IU225440	Revegetation 600-383	0%	8	10-Nov-14*	20-Nov-14							
<b>600-384</b>												
<b>Excavation</b>												
IU225560	Excavation 600-384 (D/H Boundary Site)	98%	4	04-Nov-13 A	01-May-14							
<b>Loadout</b>												

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	14	May 2014	June 2014	July 2014	A	S	O
IU225460	Loadout 600-384	98%	4	04-Nov-13A	01-May-14	2	2	0	1	2	0	1
<b>Final Project Closeout</b>												
IU225490	Prepare Closure Document 600-384	38%	72	10-Apr-14 A	03-Sep-14							
IU225500	RL/Reg Review of Draft A Closure Document 600-384	0%	26	04-Jun-14	21-Jul-14							
IU225510	RL/Reg Signature Rev.0 Closure Document 600-384	0%	4	19-Aug-14	25-Aug-14							
<b>Backfill</b>												
IU225540	Backfill 600-384	0%	1	10-Sep-14	10-Sep-14							
<b>Revegetation</b>												
IU225550	Revegetation 600-384	0%	8	10-Nov-14*	20-Nov-14							
<b>600-382</b>												
<b>Excavation</b>												
IU225940	Excavation 600-382 (D/H Boundary Site)	98%	4	29-Oct-13 A	01-May-14							
<b>Loadout</b>												
IU225240	Loadout 600-382	98%	4	29-Oct-13 A	01-May-14							
<b>Final Project Closeout</b>												
IU225270	Prepare Closure Document 600-382	38%	75	15-Apr-14 A	09-Sep-14							
IU225280	RL/Reg Review of Draft A Closure Document 600-382	0%	26	09-Jun-14	23-Jul-14							
IU225290	RL/Reg Signature Rev.0 Closure Document 600-382	0%	4	21-Aug-14	27-Aug-14							
<b>Backfill</b>												
IU225320	Backfill 600-382	0%	1	11-Sep-14	11-Sep-14							
<b>Revegetation</b>												
IU225330	Revegetation 600-382	0%	8	10-Nov-14*	20-Nov-14							
<b>600-356</b>												
<b>Excavation</b>												
IU226500	Plume Chase 600-356 ( Segment 1 )	98%	1	05-Dec-13 A	28-Apr-14							
<b>Final Project Closeout</b>												
IU226050	Prepare Closure Document 600-356	76%	49	06-Mar-14 A	23-Jul-14							
IU226470	RL/Reg Review of Draft A Closure Document 600-356	0%	26	29-Apr-14	12-Jun-14							
IU226480	RL/Reg Signature Rev.0 Closure Document 600-356	0%	4	15-Jul-14	21-Jul-14							
<b>Backfill</b>												
IU226030	Backfill 600-356	0%	4	15-Sep-14	18-Sep-14							
<b>Revegetation</b>												
IU226060	Revegetation 600-356	0%	1	10-Nov-14*	10-Nov-14							
<b>600-375</b>												

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	14	May 2014	June 2014	July 2014	A	S	O							
						2	2	0	1	2	0	1	2	0	1	2	0	1	2
<b>Final Project Closeout</b>																			
IU224500	Prepare Closure Document 600-375	100%	0	02-Dec-13 A	24-Apr-14 A														
<b>600-377</b>																			
<b>Excavation</b>																			
IU224790	Excavation 600-377	98%	1	16-Dec-13 A	28-Apr-14														
<b>Loadout</b>																			
IU224690	Loadout 600-377	98%	1	16-Dec-13 A	28-Apr-14														
<b>Final Project Closeout</b>																			
IU224720	Prepare Closure Document 600-377	76%	49	27-Feb-14 A	23-Jul-14														
IU224730	RL/Reg Review of Draft A Closure Document 600-377	0%	24	23-Apr-14 A	09-Jun-14														
IU224740	RL/Reg Signature Rev.0 Closure Document 600-377	0%	4	09-Jul-14	15-Jul-14														
<b>Backfill</b>																			
IU224770	Backfill 600-377	0%	1	02-Sep-14*	02-Sep-14														
<b>Revegetation</b>																			
IU224780	Revegetation 600-377	0%	12	10-Nov-14*	02-Dec-14														
<b>600-379</b>																			
<b>Excavation</b>																			
IU225010	Excavation 600-379	98%	1	18-Dec-13 A	28-Apr-14														
<b>Loadout</b>																			
IU224910	Loadout 600-379	98%	1	18-Dec-13 A	28-Apr-14														
<b>Final Project Closeout</b>																			
IU224940	Prepare Closure Document 600-379	95%	10	11-Feb-14 A	13-May-14														
IU224960	RL/Reg Signature Rev.0 Closure Document 600-379	10%	4	22-Apr-14 A	01-May-14														
<b>Backfill</b>																			
IU224990	Backfill 600-379	0%	1	03-Sep-14	03-Sep-14														
<b>Revegetation</b>																			
IU225000	Revegetation 600-379	0%	12	10-Nov-14*	02-Dec-14														
<b>600-378</b>																			
<b>Excavation</b>																			
IU224900	Excavation 600-378	98%	3	17-Dec-13 A	30-Apr-14														
<b>Loadout</b>																			
IU224800	Loadout 600-378	98%	3	17-Dec-13 A	30-Apr-14														
<b>Final Project Closeout</b>																			
IU224830	Prepare Closure Document 600-378	0%	70	01-May-14	04-Sep-14														



Activity ID	Activity Name	% Cmpl	RD	Start	Finish	14	May 2014	June 2014	July 2014	A	S	O					
						2	2	0	1	1	2	0	1	2	0	1	2
IU226570	DGM Survey	0%	25	15-May-14	30-Jun-14												
IU226590	DGM Reacquisition and Consultation 600-349	0%	10	01-Jul-14	18-Jul-14												
<b>Loadout</b>																	
IU225800	DGM Subsurface Clearance 600-349	0%	13	13-May-14	05-Jun-14												
<b>Closeout Sampling &amp; Docs</b>																	
IU225860	Closure Report 600-349	0%	32	02-Sep-14	28-Oct-14												
<b>600-20</b>																	
<b>Excavation</b>																	
IU226110	Excavation 600-20	0%	63	05-May-14*	25-Aug-14												
<b>Loadout</b>																	
IU226120	Loadout 600-20	0%	63	05-May-14	25-Aug-14												
<b>Closeout Sampling &amp; Docs</b>																	
IU226180	Prepare Work Instruction 600-20	0%	44	23-Sep-14	11-Dec-14												
IU226190	RL/Reg Review of Draft A Work Instruction 600-20	0%	26	07-Oct-14	20-Nov-14												
IU226130	RL/Reg Signature Rev.0 W1 600-20	0%	4	20-Nov-14	02-Dec-14												
IU226140	Closure Sampling 600-20	0%	26	11-Dec-14	02-Feb-15												
<b>Final Project Closeout</b>																	
IU226150	Prepare Closure Document 600-20	0%	80	02-Feb-15	24-Jun-15												
IU226160	RL/Reg Review of Draft A Closure Document 600-20	0%	26	26-Mar-15	12-May-15												
IU226170	RL/Reg Signature Rev.0 Closure Document 600-20	0%	4	10-Jun-15	17-Jun-15												
<b>600-332</b>																	
<b>Excavation</b>																	
IU223690	Excavation 600-332	0%	4	25-Aug-14	02-Sep-14												
<b>Loadout</b>																	
IU223590	Loadout 600-332	0%	4	25-Aug-14	02-Sep-14												
<b>Closeout Sampling &amp; Docs</b>																	
IU223650	Prepare Work Instruction 600-332	0%	44	30-Sep-14	18-Dec-14												
IU223660	RL/Reg Review of Draft A Work Instruction 600-332	0%	26	14-Oct-14	02-Dec-14												
IU223600	RL/Reg Signature Rev.0 W1 600-332	0%	4	02-Dec-14	09-Dec-14												
IU223610	Closure Sampling 600-332	0%	26	18-Dec-14	09-Feb-15												
<b>Final Project Closeout</b>																	
IU223620	Prepare Closure Document 600-332	0%	80	09-Feb-15	01-Jul-15												
IU223630	RL/Reg Review of Draft A Closure Document 600-332	0%	26	02-Apr-15	19-May-15												
IU223640	RL/Reg Signature Rev.0 Closure Document 600-332	0%	4	17-Jun-15	24-Jun-15												
<b>Backfill</b>																	
IU223670	Backfill 600-332	0%	1	01-Jul-15	06-Jul-15												

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	14	May 2014	June 2014	July 2014	A	S	O
<b>Revegetation</b>												
IU223680	Revegetation 600-332	0%	5	09-Nov-15*	16-Nov-15	2	2	0	1	2	0	1
<b>600-358</b>												
<b>Excavation</b>												
IU225900	Excavation 600-358	0%	8	02-Sep-14	16-Sep-14	2	2	0	1	2	0	1
<b>Loadout</b>												
IU225910	Loadout 600-358	0%	8	16-Sep-14	30-Sep-14	2	2	0	1	2	0	1
<b>Closeout Sampling &amp; Docs</b>												
IU225970	Prepare Work Instruction 600-358	0%	44	28-Oct-14	21-Jan-15							
IU225980	RL/Reg Review of Draft A Work Instruction 600-358	0%	26	11-Nov-14	05-Jan-15							
IU225920	RL/Reg Signature Rev.0 WI 600-358	0%	4	05-Jan-15	12-Jan-15							
IU225930	Closure Sampling 600-358	0%	26	21-Jan-15	10-Mar-15							
<b>Final Project Closeout</b>												
IU225940	Prepare Closure Document 600-358	0%	80	10-Mar-15	30-Jul-15							
IU225950	RL/Reg Review of Draft A Closure Document 600-358	0%	26	30-Apr-15	17-Jun-15							
IU225960	RL/Reg Signature Rev.0 Closure Document 600-358	0%	4	16-Jul-15	23-Jul-15							
<b>Revegetation</b>												
IU226000	Revegetation 600-358	0%	5	09-Nov-15*	16-Nov-15							

# Attachment 13

175685

**^WCH Document Control**

---

**From:** Saueressig, Daniel G  
**Sent:** Monday, April 28, 2014 2:05 PM  
**To:** ^WCH Document Control  
**Cc:** Jakubek, Joshua E  
**Subject:** FW: REQUEST FOR STAGING PILE TO SUPPORT 600-20  
**Attachments:** 600-20 - SPA.pdf

Please provide a chron number (and include the attachments). 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](mailto:Guzzetti.Christopher@epa.gov)]  
**Sent:** Monday, April 28, 2014 10:49 AM  
**To:** Saueressig, Daniel G; Glossbrenner, Ellwood T  
**Subject:** RE: REQUEST FOR STAGING PILE TO SUPPORT 600-20

I do not have an issue 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](mailto:guzzetti.christopher@epa.gov)

---

**From:** Saueressig, Daniel G [mailto:[daniel.saueressig@wch-rcc.com](mailto:daniel.saueressig@wch-rcc.com)]  
**Sent:** Monday, April 28, 2014 10:31 AM  
**To:** Guzzetti, Christopher; Glossbrenner, Ellwood T  
**Subject:** REQUEST FOR STAGING PILE TO SUPPORT 600-20

Chris/Ellwood, I'd like your approval to set up a staging pile area (SPA) to support remediation of 600-20, see attached file depicting the location for the SPA. Also, since this area is not in a radiologically controlled area, we do not plan to survey the area prior to use, but will walk it down before use.

Let me know if you concur.

4/29/2014

Thanks,

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

<< File: 600-20 - SPA.pdf >>



## ^WCH Document Control

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**From:** Glossbrenner, Ellwood T  
**Sent:** Monday, April 28, 2014 12:22 PM  
**To:** Saueressig, Daniel G  
**Cc:** Guzzetti, Christopher  
**Subject:** RE: REQUEST FOR STAGING PILE TO SUPPORT 600-20

**Attachments:** 0600X-DD-C0964 Rev 0\_600-20.pdf

Dan,

I don't have an issue with the SPA, but you might want to take a look at the attached civil survey – seems like western edge of the SPA is really close to the remediation footprint.

Otherwise I concur.

Ellwood T. Glossbrenner  
509-376-5828



0600X-DD-C0964  
Rev 0\_600-20.pd...

---

**From:** Saueressig, Daniel G [mailto:daniel.saueressig@wch-rcc.com]  
**Sent:** Monday, April 28, 2014 10:31 AM  
**To:** Guzzetti, Christopher; Glossbrenner, Ellwood T  
**Subject:** REQUEST FOR STAGING PILE TO SUPPORT 600-20

Chris/Ellwood, I'd like your approval to set up a staging pile area (SPA) to support remediation of 600-20, see attached file depicting the location for the SPA. Also, since this area is not in a radiologically controlled area, we do not plan to survey the area prior to use, but will walk it down before use.

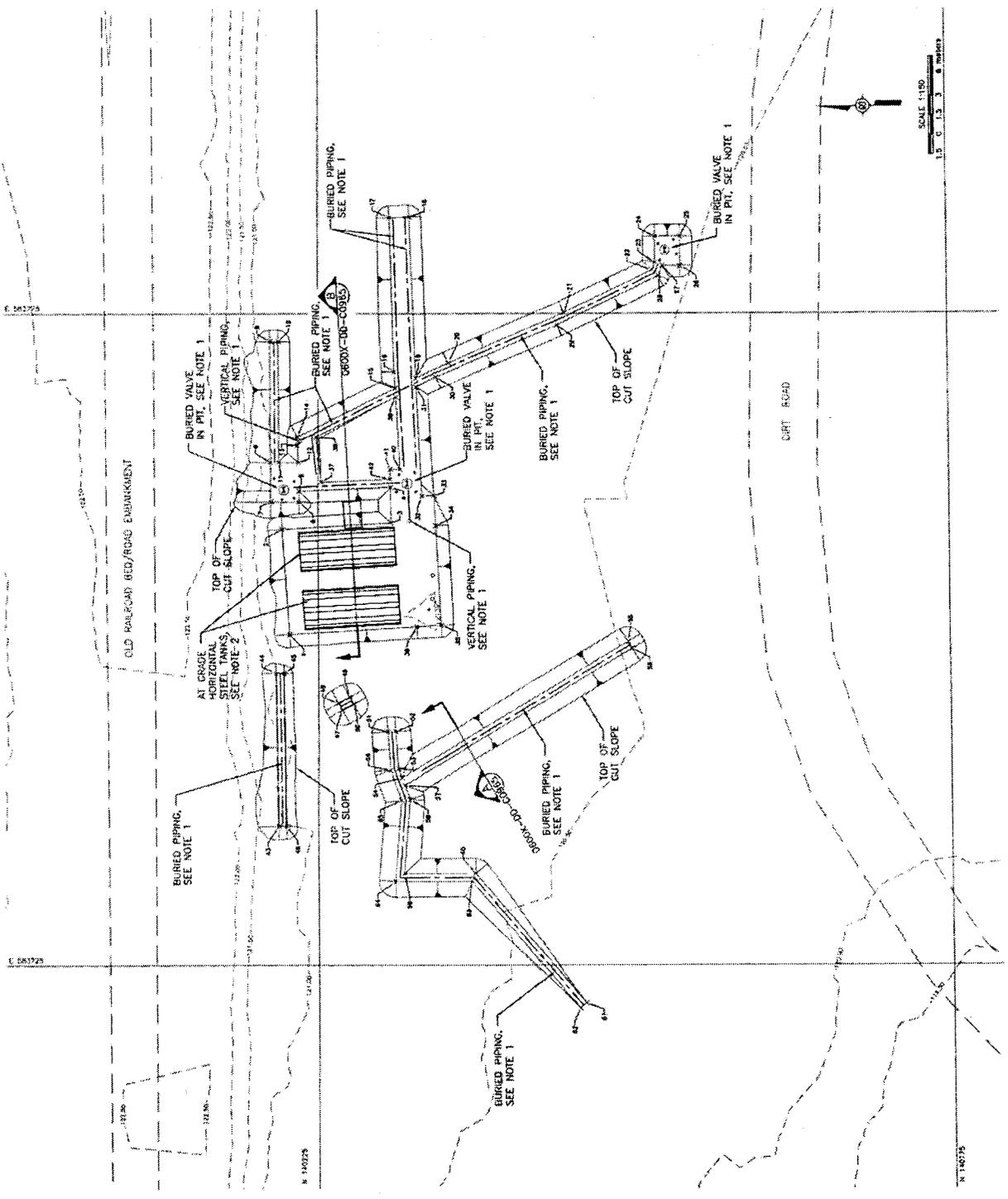
Let me know if you concur.

Thanks,

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

<< File: 600-20 - SPA.pdf >>

600X-30-C0964 0



**NOTES**

1. LOCATION OF BURIED PIPING, ABOVE GRADE PIPING AND VALVE PITS WERE TAKEN FROM WCH, GROUND PENETRATION RADAR (GPR) FIELD SURVEY DATA, DATED MAY 2013. HISTORICAL RECORDS FOR THIS AREA WERE REVIEWED AND FOUND TO BE IN ACCORDANCE WITH MEMORANDUM (M) 169712, 600-20, 615 HOT MIX PLANT FOR ROAD MATERIALS, TANK CLEANING SITE FOR REMEDIAL ACTION, DATED 7/4/2013. ACTUAL LOCATIONS, PIPING DIMENSIONS AND BURIED MECHANICAL SHALL BE VERIFIED BY THE SUBCONTRACTOR. AS-BUILT CONSTRUCTION MAY VARY FROM NEAR-LINES SHOWN ON DRAWINGS.
2. HORIZONTAL STEEL TANKS AND ANCILLARY BELOW GRADE AND ABOVE GRADE PIPING SHALL BE REMOVED.
3. ALL ELEVATIONS AND DIMENSIONS ARE IN METERS EXCEPT AS SPECIFICALLY SHOWN.
4. BASE TOPOGRAPHY USED FOR DESIGN OF THE WASTE SITE REMEDIATION WAS SUPPLIED BY AEROMETRIC'S 2008 FLY-OVER.
5. HORIZONTAL DATUM: WASHINGTON STATE PLANE, 12.7 METERS (42 FT) ABOVE MEAN SEA LEVEL (MSL).
6. VERTICAL DATUM: NATIONAL GEODETIC SURVEY DATUM (NGVD88) METERS. CONTOUR INTERVAL: 0.5 METERS.
7. SUBCONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF STRUCTURES AND PROTECTION OF ALL ABOVE AND BELOW GRADE INTERFERENCES INCLUDING WELLS, BENCHMARKS, AND EXISTING UTILITIES PER THE DIRECTION OF THE CONTRACTOR.
8. LIMITS OF EXCAVATION ARE BASED ON A 1.5 HORIZONTAL TO 1.0 VERTICAL CUT SLOPE. EMBANKMENT AND AVOIDANCE OF NEARBY STRUCTURES, THE ACTUAL EXCAVATION LIMITS SHALL BE ESTABLISHED IN ACCORDANCE WITH TECHNICAL SPECIFICATION DOCUMENTS.
9. STAGING OF WASTE SHALL OCCUR WITHIN A PRE-DEFINED ACC BOUNDARY AS APPROVED BY CONTRACTOR.
10. SURVEY CONTROL POINTS FOR EXCAVATION CONTROL IS SHOWN ON DRAWING NO. 600A-30-C0964.
11. ALL SURFACE DEBRIS INCLUDING PIPING, WOOD, AND DEBRIS TO BE REMOVED.

DOCUMENT CONTROL 04/13/13

NO.	DATE	DESCRIPTION	BY	CHK
1	04/13/13	ISSUED FOR PROJECT USE	JK	JK

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

WASHINGTON CLOSURE HANFORD LLC.  
RICHLAND, WASHINGTON

800 AREA  
600-20/615 HOT MIX TANKS  
CIVIL SITE PLAN

WCH JOB NO. 14655  
DATE CONTRACT NO. DE-A008-09RL-14655  
CARD FILENAME 600X-30-C0964-800

TASK 600  
DRAWING NO. 0600X-DD-C0964  
REV. NO. 0

RECORD INFORMATION  
RECORD NO. H-6-17942  
SHTD: 600  
REV. NO. 0110

From Client  
Dedicated To Safety Excellence

# Attachment 14

175642

**^WCH Document Control**

---

**From:** Saueressig, Daniel G  
**Sent:** Thursday, April 24, 2014 12:50 PM  
**To:** ^WCH Document Control  
**Subject:** FW: TEMPORARY CTA FOR 600-20 AND 600-349  
**Attachments:** 600-349 TRAILER-LAYOUT.PDF; 600-20 Temporary CTA.pdf

Please provide a chron number (and include the attachments). 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](mailto:Guzzetti.Christopher@epa.gov)]  
**Sent:** Thursday, April 24, 2014 9:28 AM  
**To:** Glossbrenner, Ellwood T; Saueressig, Daniel G  
**Subject:** RE: TEMPORARY CTA FOR 600-20 AND 600-349

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](mailto:guzzetti.christopher@epa.gov)

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**From:** Glossbrenner, Ellwood T [mailto:[ellwood.glossbrenner@rl.doe.gov](mailto:ellwood.glossbrenner@rl.doe.gov)]  
**Sent:** Thursday, April 24, 2014 9:26 AM  
**To:** Saueressig, Daniel G; Guzzetti, Christopher  
**Subject:** RE: TEMPORARY CTA FOR 600-20 AND 600-349

Dan and Chris,

I concur with setting up these temporary CTAs.

Ellwood T. Glossbrenner  
509-376-5828

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**From:** Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]  
**Sent:** Thursday, April 24, 2014 8:26 AM  
**To:** Guzzetti, Christopher; Glossbrenner, Ellwood T  
**Subject:** TEMPORARY CTA FOR 600-20 AND 600-349

Guys, the attached files show locations we plan to utilize temporary CTAs for waste load-out at 600-20 and 600-340. The one at 600-20 was a previously utilized area. Let me know if you concur with setting up these temporary CTAs.

Thanks,

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

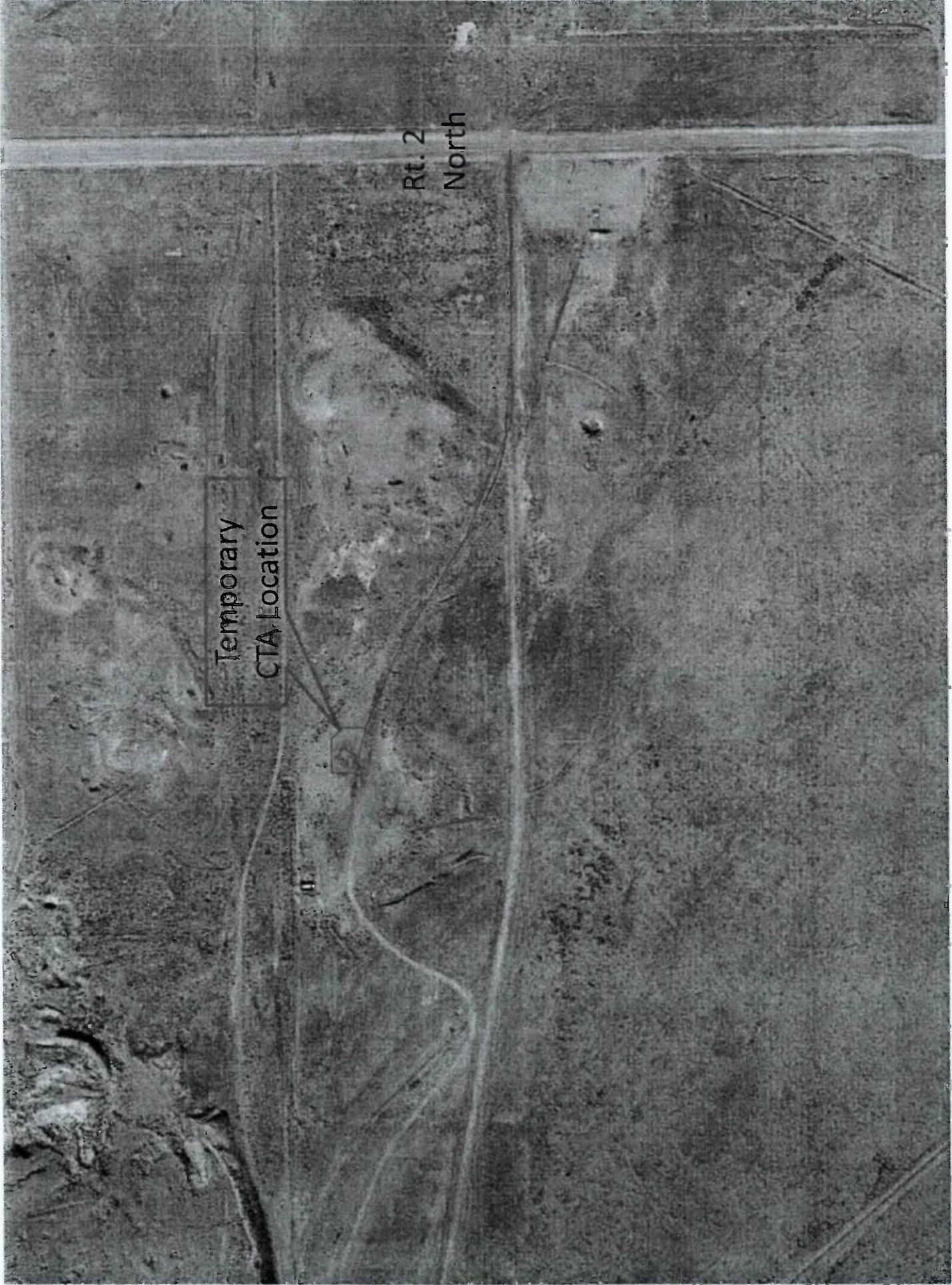
<< File: 600-20 Temporary CTA.pdf >>

<< File: 600-349 TRAILER-LAYOUT.PDF >>



Temporary CTA  
Location





Rt. 2  
North

Temporary  
CTA Location

# Attachment 15

300 Area Closure Project Status  
May 8, 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.
- 324 – Continue min-safe operations. NEPA and NHPA Section 106 reviews of the AREVA off-site mockup location on going.
- Remaining 300 Area Waste Sites – Completed Zone 4 process sewer piping remediation, initiated Zone 3 process sewer remediation.
- Preparing to mobilize to Zone 1 for process sewer and 300-11 remediation.
- Continuing development of new RDR/RAWP following issuance of the 300 Area Final Action Record of Decision.
- 3730 – Completed backfill, demolition completed.
- 3790 – Completed backfill, demolition completed.

**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**

- Complete backfill of the 326 Building.
- 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.

# Attachment 16

## **ESH&QA Mission Completion Project**

May 8, 2014

### **Long-Term Stewardship**

- The 100-K Area Interim Remedial Action Report, Draft A was transmitted to RL for review and subsequent transmittal to EPA for review on 4/15/2014. Comments were requested due by 5/15/2014.

### **300 Area Final Action ROD RDR/RAWP**

- Draft A of the 300 Area RDR/RAWP Soil Addendum is anticipated to be submitted to RL the week of May 12. (Submittal to EPA planned by May 23.)
- RL review and comment resolution for the associated revision to the soil SAP is currently ongoing.

### **Document Review Look-Ahead**

- None