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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

February 9, 2012

APPROVAL: _____ Date 3/8/12
for Mark French, DOE/RL (A3-04)
River Corridor Project Manager

APPROVAL: _____ Date 3/8/12
Brian Charboneau, DOE/RL (A6-38)
Groundwater Project Manager

APPROVAL: _____ Date 3/8/12
Nina Menard. Ecology (H0-57)
Environmental Restoration Project
Manager

APPROVAL: _____ Date 3/8/12
Laura Buelow, Rod Lobos, or Christopher
Guzzetti, EPA (B1-46)
100 Area Project Manager

APPROVAL: _____ for Date 3/8/12
Larry Gadbois, 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); and Mission Completion

February 9, 2012

ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) – The next meeting will be held March 8, 2012, 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 January 12, 2012, 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 meeting agenda.

EXECUTIVE SESSION (Tri-Parties Only)

An Executive Session was not held by RL, EPA, and Ecology prior to the February 9, 2012, UMM.

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. No issues were identified and no action items were documented.

Agreement 1: Attachment 3 provides EPA's concurrence to excavate an approximately 10 foot diameter area to a depth of approximately 1 meter around each of the 4 locations at 100-F-57:1 that failed verification sampling and resample.

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. No issues were identified and no action items were documented.

Agreement 1: Attachment 4 provides Ecology's approval to reuse the northwest BCL stockpile from the 132-H-3 site to backfill the former 132-H-3 ACL SPA.

Agreement 2: Attachment 5 provides Ecology's approval to treat the 100-D-100 Chromium Contaminated Soil in accordance with the "Treatment Plan and Protocol for Treatment of Chromium-Contaminate Soils, WCH-284, Rev.2."

Agreement 3: Attachment 6 provides Ecology's approval of the 118-D-3:2 sampling design for closure of the 118-D-3:2 anomaly staging area.

Agreement 4: Attachment 7 provides Ecology's approval to transfer to drums approximately 20 to 30 gallons of waste from the condensate from treating the NaK and to store the drums in a staging pile or a container transfer area while awaiting the return of lab results.

Agreement 5: Attachment 8 provides Ecology's approval to modify the NaK Treatment Plan to revise a sentence to read, "The Mark III will be operated at a nominal pressure of approximately 25 psig and will be maintained at a temperature above 250 degrees F to minimize condensate."

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 9 provides status and information for D4/ISS activities at 100-N. No issues were identified and no action items were documented.

Agreement 1: Attachment 10 provides DOE's and Ecology's concurrences with the proposed composite sampling method for 100-N-59 waste site and to proceed with drafting a verification work instruction.

Agreement 2: Attachment 11 provides Ecology's concurrence to deviate from the 100-N-63:2 verification work instruction by obtaining composite soil samples rather than performing GPERS.

Agreement 3: Attachment 12 provides EPA's approval to send bunker oil waste offsite for treatment/disposal.

100-K AREA (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.

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. No issues were identified and no agreements or action items were documented.

300 AREA – 618-10/11 (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. 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 13 provides status of the 300 Area Closure Project activities. No issues were identified and no agreements or action items were documented.

REGULATORY CLOSEOUT DOCUMENTS OVERALL SCHEDULE

No issues were identified and no agreements or action items were documented.

MISSION COMPLETION PROJECT

Attachment 14 provides status and information regarding the Orphan Sites Evaluations, Long-Term Stewardship, River Corridor Baseline Risk Assessment, the Remedial Investigation of Hanford Releases to the Columbia River, and a Document Review Look-Ahead. No issues were identified and no agreements or action items were documented.

5-YEAR RECORD OF DECISION ACTION ITEM UPDATE

No changes were reported to the status of the CERCLA Five-Year Review action Items. No issues were identified and no agreements or action items were documented.

Attachment A

100/300 AREA UNIT MANAGER MEETING
ATTENDANCE AND DISTRIBUTION
February 9, 2012

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Attachment B

100/300 Area UMM
Action List
February 9, 2012

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
O	100-181	RL	J. Hanson	100-HR	DOE will provide Ecology with a briefing on the applicability and status of bioremediation of chromium and the associated feasibility studies.	Open: 4/14/11; Action:
O	100-192	RL	J. Hanson	100-D	DOE will provide Ecology with a briefing on the wells damaged by the flooding at 100-D.	Open: 12/8/11; Action:
O	100-193	RL	M. Thompson	100-N	At the next UMM, DOE will discuss the potential sources of total organic carbon detected at well 199-N-165 down-gradient from the 1324-N/NA treatment, storage, and/or disposal units.	Open: 1/12/12; Action:

Attachment C

100/300 Area Unit Manager Meeting
February 9, 2012
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99354
Room C209; 2:00p.m.

Administrative:

- Approval and signing of previous meeting minutes (January 12, 2012)
- Update to Action Items List
- Next UMM (3/8/2012, Room C209)

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

- 100-F & 100-IU-2/6 Areas (Greg Sinton/Tom Post/Jamie Zeisloft)
- 100-D & 100-H Areas (Jim Hanson/Tom Post/Elwood Glossbrenner)
- 100-N Area (Joanne Chance, Rudy Guercia, Mike Thompson)
- 100-K Area (Jim Hanson, Jamie Zeisloft)
- 100-B/C Area (Greg Sinton, Tom Post)
- 300 Area - 618-10/11 exclusively (Jamie Zeisloft)
- 300 Area (Mike Thompson/Rudy Guercia)
- Regulatory Closeout Documents Overall Schedule (John Neath, Mike Thompson)
- Mission Completion Project (John Sands)

Special Topics/Other

- 5-Year Record of Decision Action Item Update (Jim Hanson)

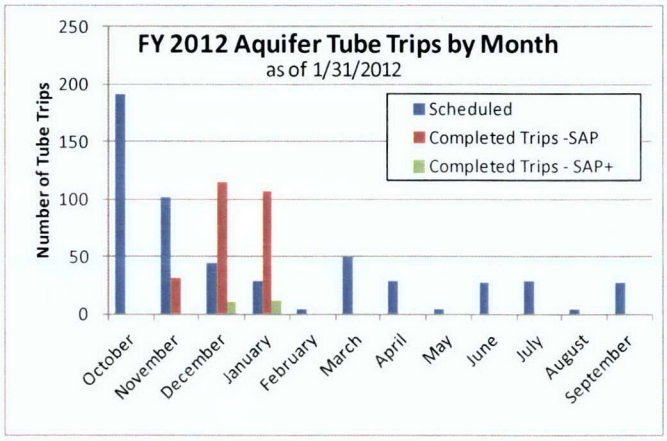
Adjourn

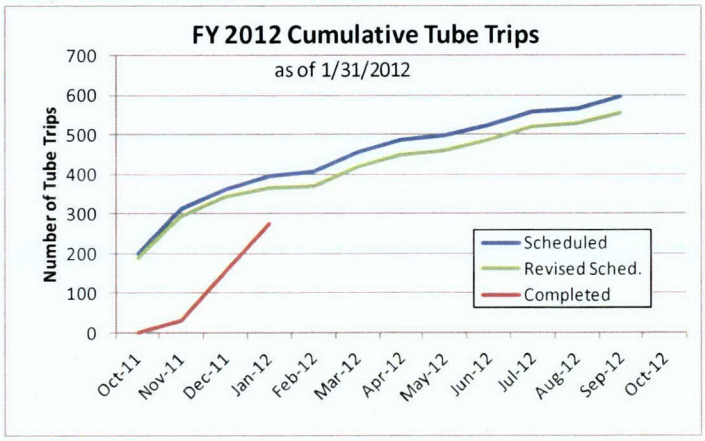
Attachment 1

100/300 Areas Unit Managers Meeting
February 9, 2012

General information on Aquifer Tube Sampling

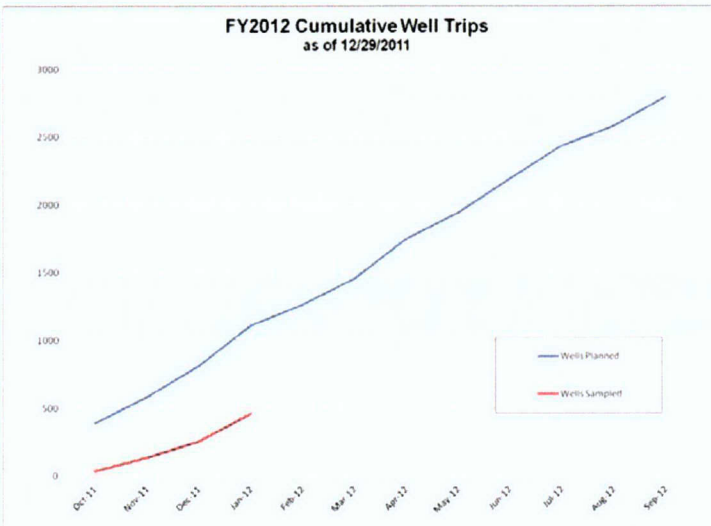
Aquifer tube samplers have made up a lot of the backlog, sampling 119 tubes in January. The graph on the left shows numbers of individual aquifer tubes scheduled and sampled in each shore segment. The graph on the right shows the total number of aquifer tube sampling *trips* (some tubes are sampled multiple times in a year). Some tube sampling trips have been cancelled (e.g., missed monthly samples; plugged tubes needing maintenance before attempting next quarter). The green line on the graph on the right shows the revised schedule.





General information on Groundwater Sampling

The sampling organization reported delays in obtaining CERCLA groundwater samples scheduled for October. The wells completed successfully are reported in a table on the last page of this handout. Primary contributors to delays include the large number of samples scheduled during October, drilling activities continuing into FY 2012, and laboratory issues being resolved at WSCF. CHPRC is working to resolve the backlog, the sampling should significantly recover, since WSCF issues were resolved and drilling is complete. CHPRC is looking for additional ways to enhance the recovery.



100-FR-3 Groundwater Operable Unit – Bert Day / Mary Hartman

(M-015-64-T01, 12/17/2011, Submit CERCLA RI/FS Report and Proposed Plan for the 100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, and 100-IU-6 Operable Units for groundwater and soil.)
Schedule Status - The new planned delivery date for the 100-FIU Draft A RI/FS Report to the regulators is currently being re-evaluated based on 100-K comments.

- CERCLA Process Implementation:
  - RI/FS report development continues. The team held an alternatives workshop with EPA on January 24th. The workshop included a briefing on some RI/FS data in support of the technology/alternatives discussion.

- Monitoring and Reporting

- Additional data from the comprehensive sampling event in November and December have been loaded into HEIS. Concentrations continued previously established trends

100-HR-3 Groundwater Operable Unit – Bert Day / John Smoot

(M-15-70-T01, 11/24/2011, Submit feasibility study report and proposed plan for the 100-HR-1, 100-HR-2, 100-HR-3, 100-DR-1 and 100-DR-2 operable units for groundwater and soil.)
Schedule Status - The new planned delivery date for the 100-D/H Draft A RI/FS Report to the regulators is currently being re-evaluated based on 100-K comments.

- CERCLA Process Implementation:
  - The team continues to incorporate RL comments on the RI/FS report as well as the responses to EPA 100-K comments that are applicable.
  - The slug test data or 100-HR-3 has been evaluated and compared to current modeling efforts. These data are consistent with previous information on the unconfined aquifer and provide confirmation of the expected values in the RUM sand unit.

- Remedial Actions:
  - The DX and HX pump and treat system are operating normally. January 1 through 31, 2012 performance:
    - The systems treated 47.9 million gallons.
    - The system removed 60.6 kg of hexavalent chromium
  - The damage to DX injection wells 199-D2-12 (MJ17), 199-D2-10 (MJ18), 199-D8-94 (MJ19), and 199-D8-93 (MJ20) was corrected and the wells were returned to service in late October/Early November. The jersey barriers/chains were installed in December (see photo) to limit future damage should extreme high rive levels be realized in the future. These four wells have a combined flow rate of 10-15 gpm.

Jersey Barriers/Chains around injection lines

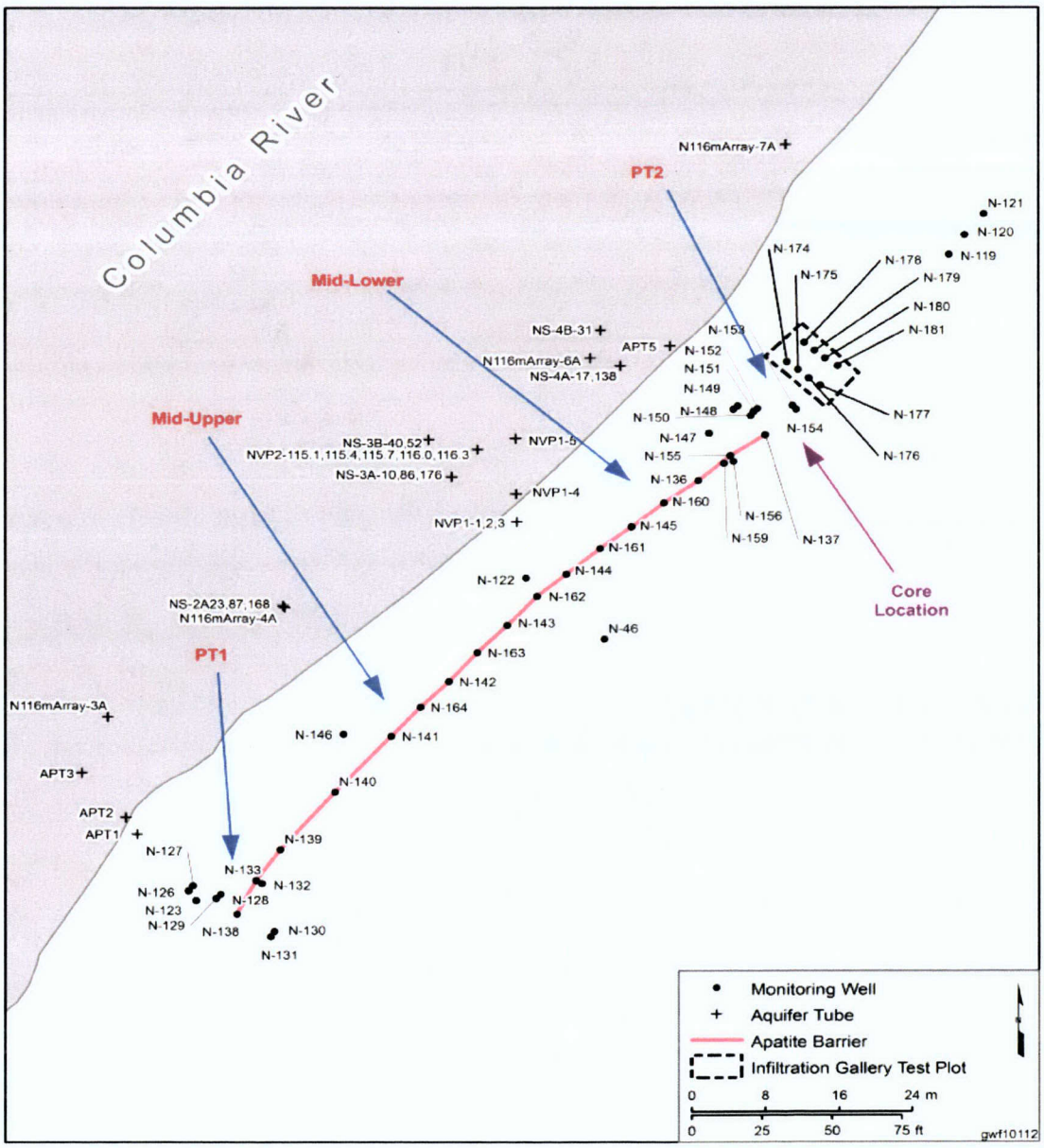
100-NR-2 Groundwater Operable Unit – Marty Doornbos / Deb Alexander

(M-015-62-T01, 9/17/2012, Submit a Feasibility Study [FS] Report and Proposed Plan [PP] for the 100-NR-1 and 100-NR-2 Operable Units including groundwater and soil. The FS Report and PP will evaluate the permeable reactive barrier technology and other alternatives (petroleum remediation) and will identify a preferred alternative in accordance with CERCLA requirements.)
Schedule Status – Behind schedule. Field investigations are now complete and all data has been received (discussed further below).

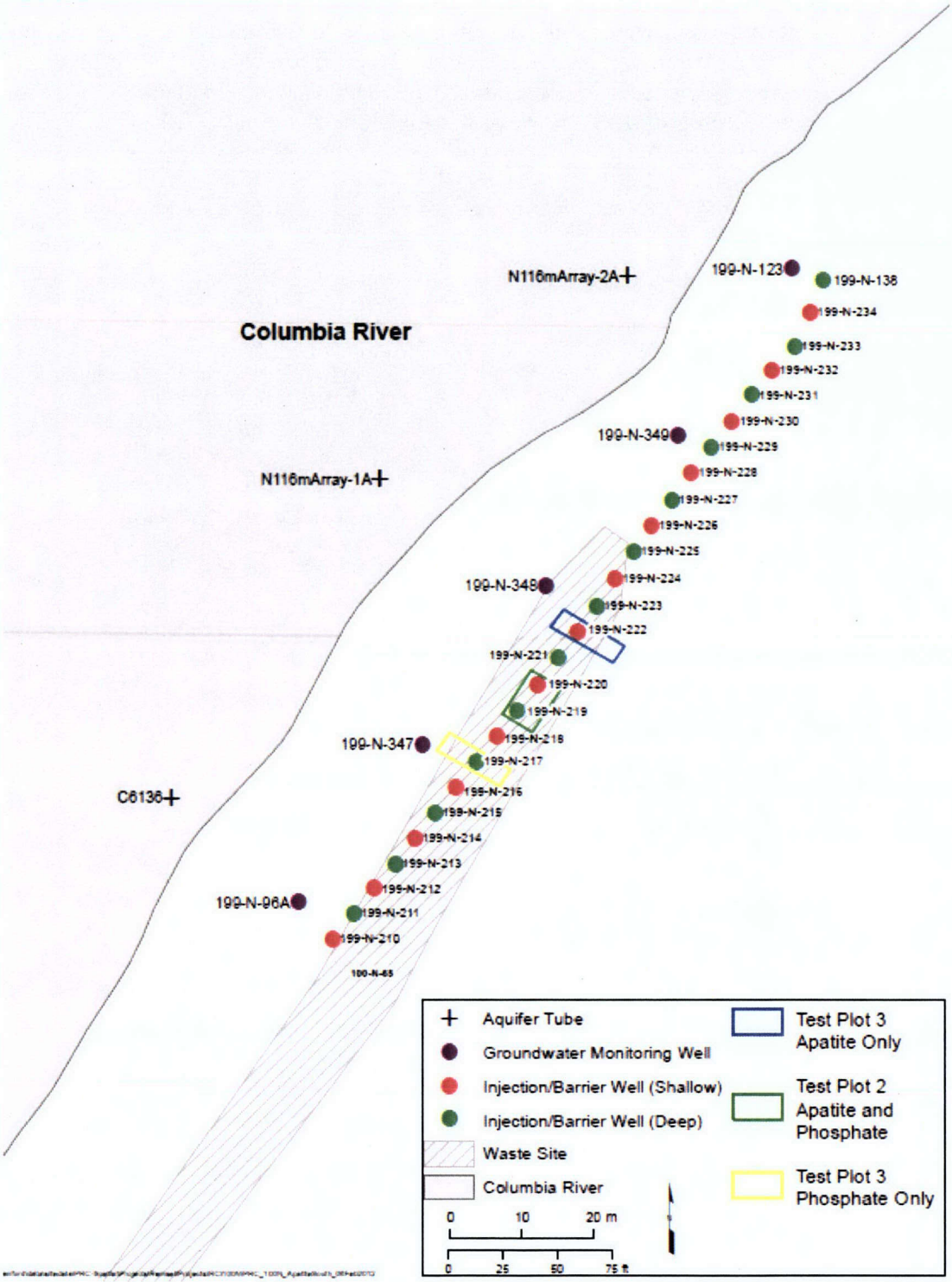
- RI/FS Activities
  - The composite geophysical logs for the eight RI/FS wells drilled in 2011 are complete. Slug test data is under evaluation.
  - All data from the RI/FS wells have been received and are in HEIS.
  - Work has begun on the RI/FS report, including modeling, risk assessment, nature and extent, etc.

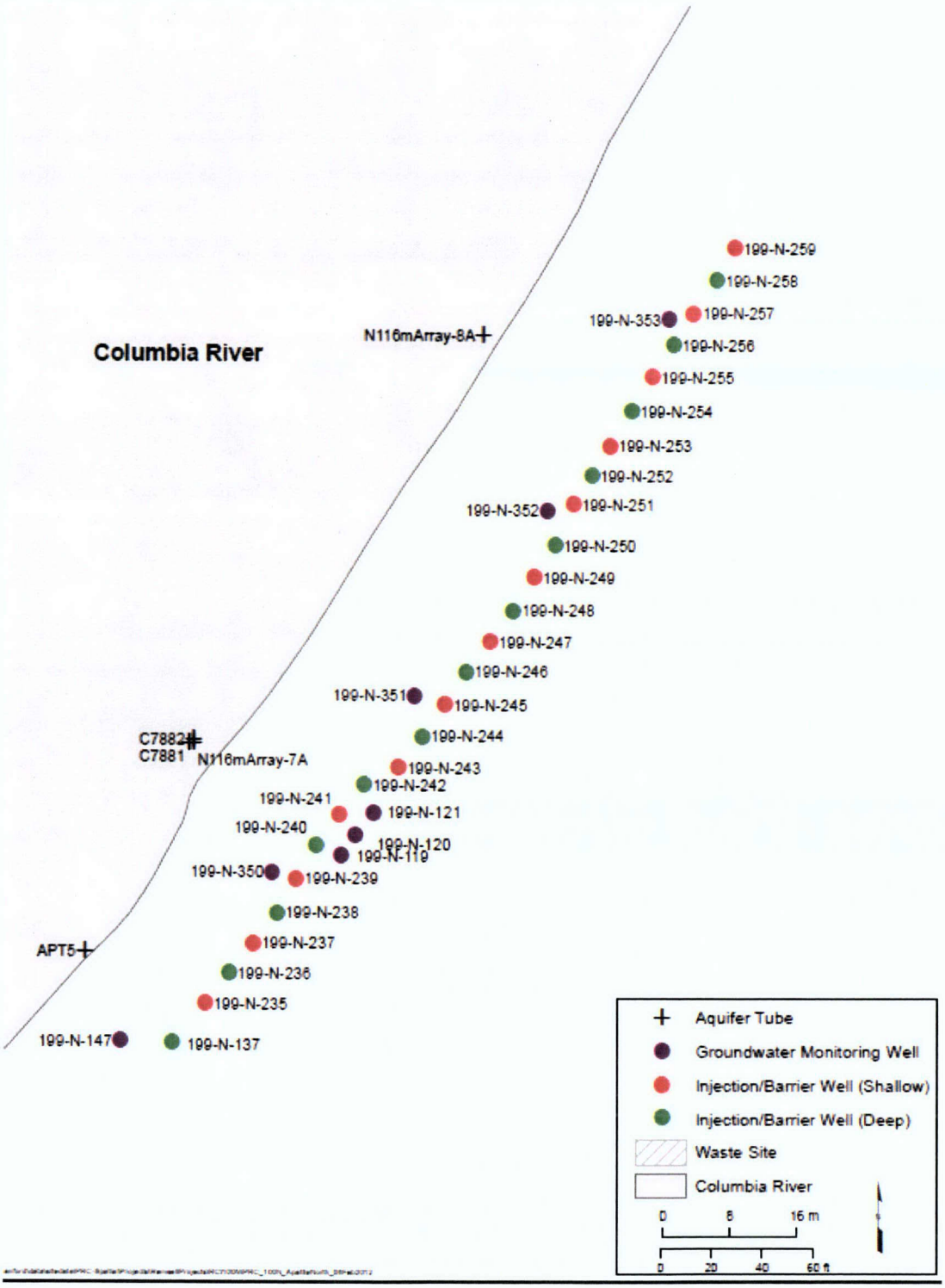
100/300 Areas Unit Managers Meeting
February 9, 2012

- Performance Monitoring on the Original 300 foot Apatite PRB – November 2011
  Note: Maps of Well and aquifer tube locations for the entire existing PRB are below (right before trend plots).
  - Four monitoring wells were sampled: 199-N-123, 199-N-146, 199-N-122, and 199-N-147.
  - Four aquifer tubes were sampled: N116Array-3A, N116Array-4A, NVP2-116.0m, and N116Array-6A (Array 3A did not produce water and was not sampled).
  - Plots of four sections of the PRB are provided below.



100/300 Areas Unit Managers Meeting
February 9, 2012




Columbia River
N116mArray-8A
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199-N-258
199-N-353
199-N-257
199-N-256
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199-N-253
199-N-252
199-N-352
199-N-251
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199-N-247
199-N-246
199-N-351
199-N-245
199-N-244
C7882
C7881
N116mArray-7A
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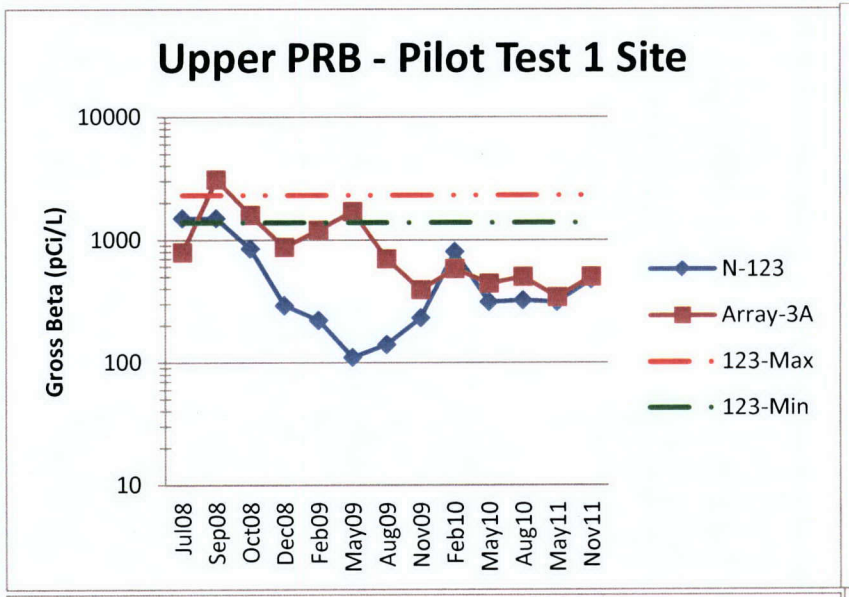
199-N-242
199-N-241
199-N-121
199-N-240
199-N-120
199-N-119
199-N-350
199-N-239
199-N-238
APT5
199-N-237
199-N-236
199-N-235
199-N-147
199-N-137
Aquifer Tube
Groundwater Monitoring Well
Injection/Barrier Well (Shallow)
Injection/Barrier Well (Deep)
Waste Site
Columbia River
0
8
16 m
0
20
40
60 ft


Upper PRB - Pilot Test 1 Site
Gross Beta (pCi/L)
10000
1000
100
10
Jul08
Sep08
Oct08
Dec08
Feb09
May09
Aug09
Nov09
Feb10
May10
Aug10
May11
Nov11
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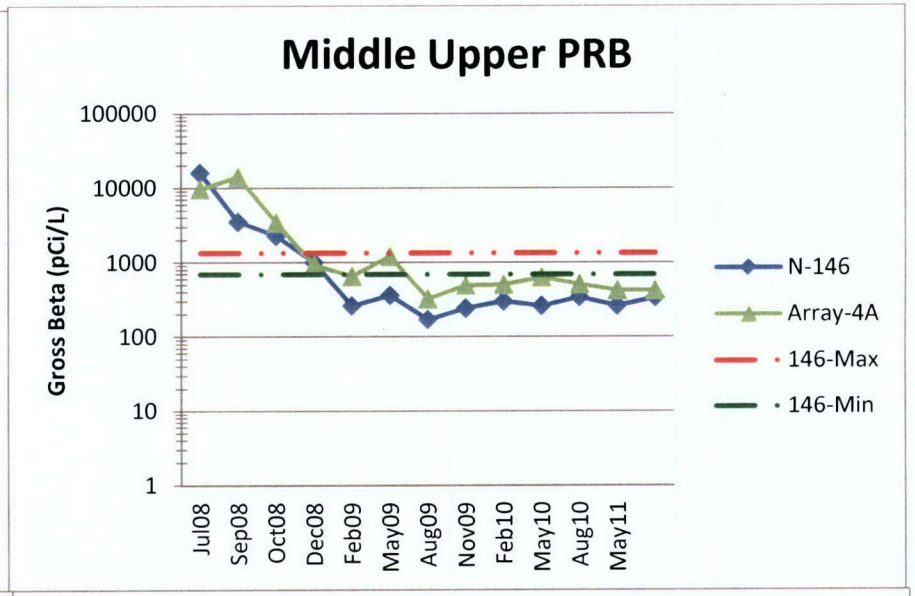
Array-3A
123-Max
123-Min


Middle Upper PRB
Gross Beta (pCi/L)
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10000
1000
100
10
1
Jul08
Sep08
Oct08
Dec08
Feb09
May09
Aug09
Nov09
Feb10
May10
Aug10
May11
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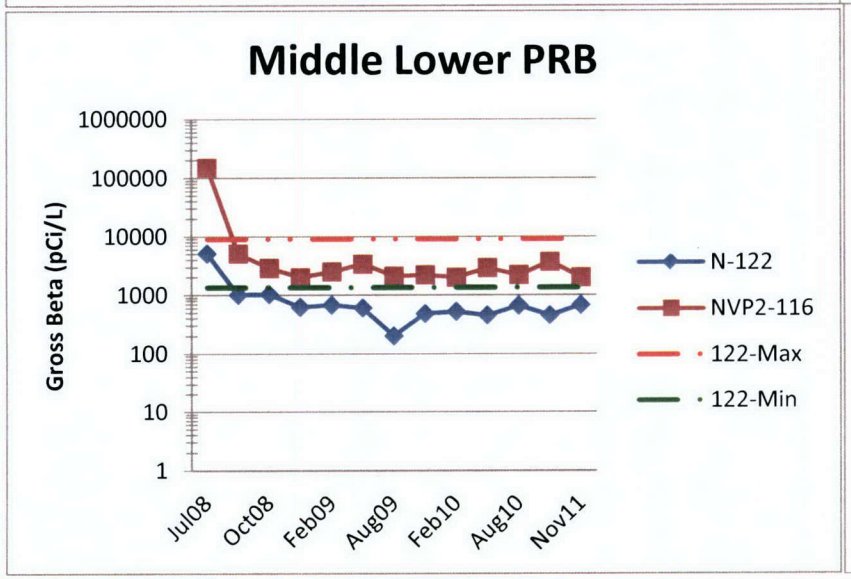
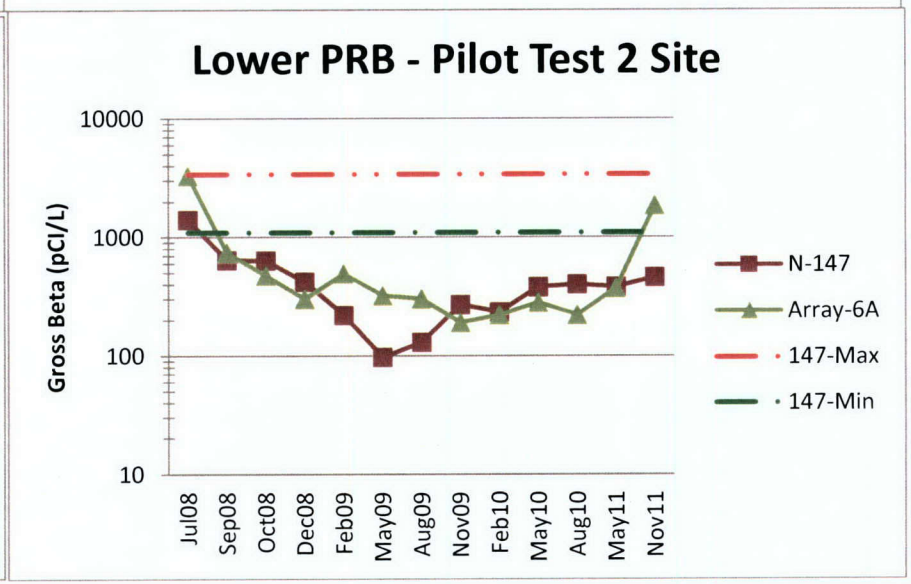
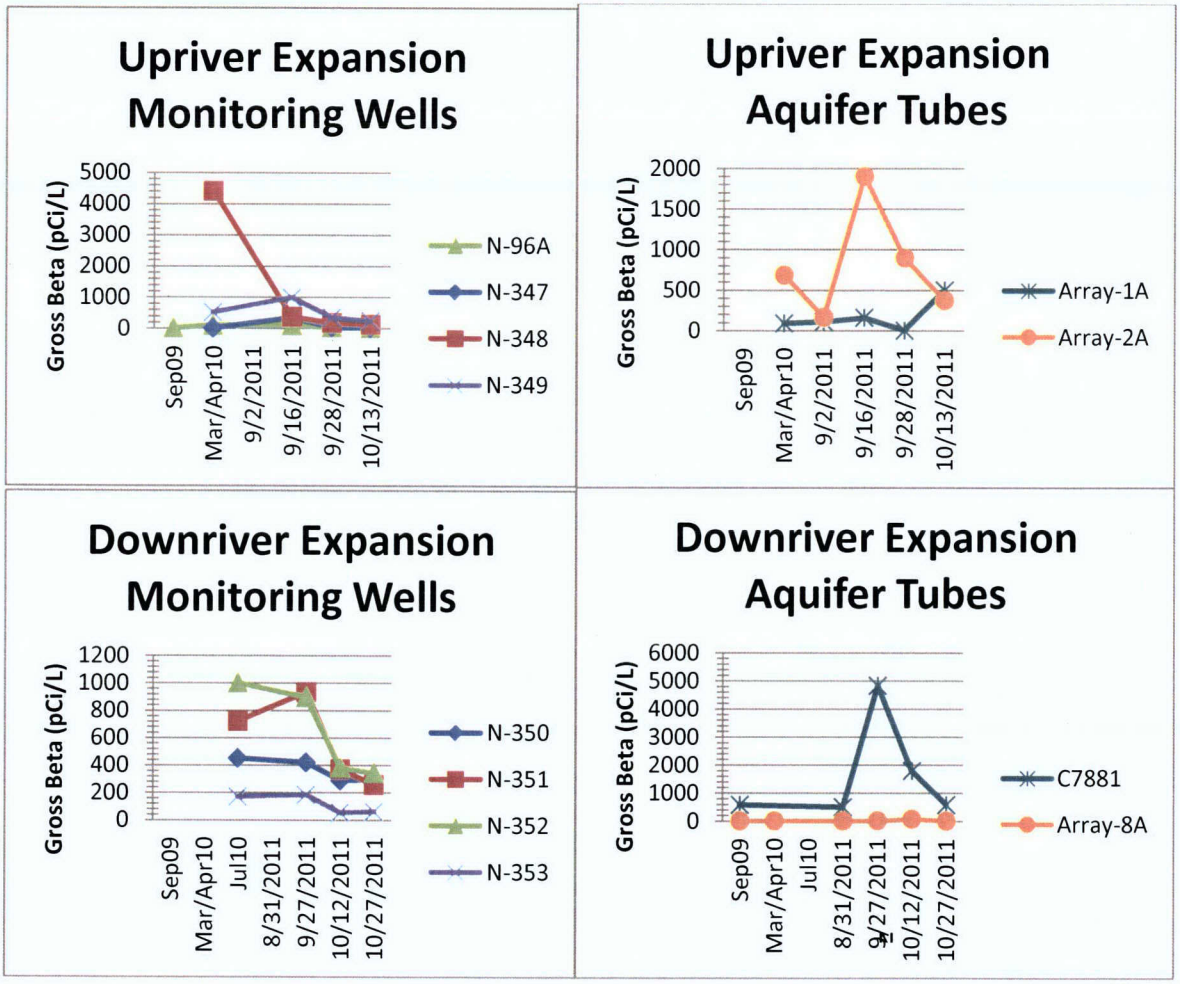
146-Max
146-Min


Middle Lower PRB
Gross Beta (pCi/L)
1000000
100000
10000
1000
100
10
1
Jul08
Oct08
Feb09
Aug09
Feb10
Aug10
Nov11
N-122
NVP2-116
122-Max
122-Min


Lower PRB - Pilot Test 2 Site
Gross Beta (pCi/L)
10000
1000
100
10
Jul08
Sep08
Oct08
Dec08
Feb09
May09
Aug09
Nov09
Feb10
May10
Aug10
May11
Nov11
N-147
Array-6A
147-Max
147-Min

- Performance Monitoring on the Upriver (300 ft) and Downriver Expansion (300 ft) Apatite PRBs (Occurred Immediately after Injections, 2 Weeks After Injections, and 4 Weeks After Injections)
  - Upriver Section - Four monitoring wells were sampled: 199-N-349, 199-N-348, 199-N-347, and 199-N-96A. Two Aquifer tubes were sampled: N116Array-1A and N116Array-2A,
  - Downriver Section - Four monitoring wells were sampled: 199-N-350, 199-N-351, 199-N-352, and 199-N-353. Two Aquifer tubes were sampled: C7881 (replacement for N116Array-7A) and N116Array-8A.
  - Plots of two sections of the PRB expansions are provided below.



100-KR-4 Groundwater Operable Unit – Bert Day / Chuck Miller

- CERCLA Process Implementation:
  - Provided EPA responses on January 19, 2012 to the RI/FS and PP comments.
  - Continue updating documents based on these responses, including modification to GWP/SWP screening levels and PRGs based on a revised conceptual site model for contaminants with a Kd 2 or greater.

- Remedial Actions:
  - Cultural Resource Monitoring: The January monthly monitoring of the KR 4 Pump and Treat system was conducted January 27, 2012. This month's participants included Leah Aleck

(Yakama Nation), Joseph Selatsee (Wanapum) and Keith Mendez (CH2M HILL). No evidence of off road driving was identified.

- KR-4, KX, and KW pump and treat systems are operating normally. The KW system is now operating with SIR-700 resin modifications. January 1 through 31 performance:
  - The systems treated 36.3 million gallons.
  - The system removed 5.2 kg of hexavalent chromium

- Modifications & Expansions
  - ResinTech SIR-700:
    - KW P&T continuing to operate on SIR-700 resin. Observations indicate satisfactory function.
    - The draft Test Report documenting the use of SIR-700 at KW and KR-4 is in internal review.
    - Efforts continue at KW and KR-4 pump-and-treats for SIR-700 implementation.

- Issues and Conditions Observed
  - Well 199-K-36: The well condition evaluation indicates that the well is useable and will be brought back into service. The team is currently scheduling the field activities to redevelop the well, and bring the well back into service during February.

100-BC-5 Groundwater Operable Unit – Bert Day/ Mary Hartman

(M-015-68-T01, 11/30/2011, 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.)
Schedule Status - The new planned delivery date for the 100-BC Draft A RI/FS Report to the regulators is currently being re-evaluated based on 100-K comments. Field investigations are complete.

- CERCLA Process Implementation:
  - RI/FS report development continues. The team held an alternatives workshop with EPA on January 24, 2012. The workshop included a briefing on some RI/FS data in support of the technology/alternatives discussion. .
- Monitoring and Reporting
  - No new groundwater monitoring results to report. The comprehensive annual sampling event was scheduled for January 2012, but has been delayed because of scheduling constraints.
  - Twelve of 26 aquifer tubes were sampled in December; no additional tubes were sampled in January. Several tubes require maintenance and will be attempted again in the coming months.

300-FF-5 Groundwater Operable Unit – Marty Doornbos/Virginia Rohay

M-015-72-T01 (due December 31, 2011) "Submit CERCLA RI/FS Report and Proposed Plan for the 300-FF-2 and 300-FF-5 Operable Units for groundwater and soil."

- M-015-72-T01 milestone was completed on December 27, 2011.
- RI/FS report (DOE/RL-2011-99) Draft A delivered to EPA and Ecology on December 27, 2011.
- Proposed Plan (DOE/RL-2011-47) Draft A delivered to EPA and Ecology on December 27, 2011.

Agency comments on these documents are anticipated to be received on or before February 13, 2012.

The 300-FF-5 Groundwater OU includes the groundwater impacted by releases from waste sites associated with three geographic subregions: 300 Area Industrial Complex, 618-11 Burial Ground, and 618-10 Burial Ground/316-4 Cribs. Principal controlling documents are:

- 300-FF-5 OU operations and maintenance plan (DOE-RL-95-73, Rev. 1, 2002)
- 300-FF-5 OU sampling and analysis plan (DOE/RL-2002-11, Rev. 2, 2008)
- 300 Area RI/FS work plan (DOE/RL-2009-30, Rev. 0, 2010)
- 300 Area RI/FS sampling and analysis plan (DOE/RL-2009-45, Rev. 0, 2010).

300 Area Industrial Complex — The semi-annual comprehensive sampling event scheduled for December was completed for most of the wells by the end of January. There are no significant changes since the December unit manager meeting report.

618-11 Burial Ground — The tritium concentrations in samples collected in December are consistent with historical trends and expectations.

618-10 Burial Ground/316-4 Cribs — The most recent results for groundwater samples from wells 699-S6-E4K and 699-S6-E4L near the 618-10 Burial Ground do not show any evidence of groundwater contamination resulting from the excavation activities initiated at this site in March 2011 (e.g., as a result of application of water for dust control). However, this conclusion is tentative pending results from additional groundwater monitoring in performed in December.

Wells sampled in December 2011

Summary of Wells Sampled in the River Corridor Areas During January 2012						
Week	**100-BC**	**100-K**	**100-N**	**100-D/H**	**100-F**	**300 Area**
2-6 Jan 12				199-H6-4		399-1-21A
				199-H3-7		399-2-2
						399-1-21B
						399-1-9
						399-1-16C
						399-1-18C
						699-S27-E14
						399-3-2
						399-1-62
						399-1-64
						399-1-63
						399-1-12
						399-2-32
						699-S20-E10
						399-3-38
						399-1-61
						699-S6-E4D
						699-S6-E4E
						699-S6-E4L
						699-S6-E4K

100/300 Areas Unit Managers Meeting
February 8, 2012

Summary of Wells Sampled in the River Corridor Areas During January 2012						
Week	**100-BC**	**100-K**	**100-N**	**100-D/H**	**100-F**	**300 Area**
9-13 Jan 12						399-3-10 399-3-1 699-S6-E4B
16-20 Jan 12		199-K-150	C6323 C6324 C6325 C6132 N116mArray-14A N116mArray-12A N116mArray-13A N116mArray-15A	199-D8-73 199-D8-88 199-D8-89 199-D5-32 199-D4-95 199-D4-39 199-D4-96	C6315	
23-27 Jan 12		199-K-168				399-1-18A 399-1-10A 399-1-10B 399-1-16B 399-1-16A 399-3-18 399-1-17A
30-31 Jan 12				199-D5-143 199-D5-134 199-D6-3 199-D5-132 199-D5-133		399-3-21 399-1-17C 399-1-18B 399-1-17B

Aquifer Tubes Sampled in January 2012

Summary of Aquifer Tubes Sampled in the River Corridor Areas During January 2012

100/300 Areas Unit Managers Meeting
February 8, 2012

Week	100-BC	100-K	100-N	100-D/H	100-F	300 Area
2-6 Jan 12		AT-K-1-D AT-K-2-D AT-K-3-D AT-K-3-M AT-K-3-S		C6291 C6290 C5682 50-S 50-M 51-D 51-M 51-S 52-D 52-M 52-S C5636 54-D 54-S C5644 C5635 54-M C5637 C5641 44-M C5673 C5638 C6286 C6285 C5634 C5633 C5632 C6288 C6287 C5676 C5674 C5677 C5678 C6284		
9-13 Jan 12	AT-B-3-D C7781 AT-B-3-S AT-B-2-D AT-B-3-M	C7641 C7642 C7643 C6239 C6240 17-D C6244 18-S	26-M 26-S 26-D	C5681 C5680 C5679		

100/300 Areas Unit Managers Meeting
February 8, 2012

Summary of Aquifer Tubes Sampled in the River Corridor Areas During January 2012						
Week	**100-BC**	**100-K**	**100-N**	**100-D/H**	**100-F**	**300 Area**
		AT-K-6-M AT-K-6-S AT-K-3-D C6250 C6249 C6248 C6243 C6242 C6241				
16-20 Jan 12			C7936 C7934 C7935 C6327 C6328 C6326 C6334 C7937 C7939 C7938	C6332 C6333		
23-27 Jan 12			C6322 C6321 C6320 N116mArray-9A N116mArray-11A N116mArray-14A	C6270 C6271 C6269 DD-44-3 DD-44-4 DD-43-2 DD-43-3 DD-42-2 DD-42-3 DD-42-4 DD-41-1 DD-41-1 DD-41-2 C6266 C6268 DD-41-3 C6267 Redox-1-3.3 Redox-1-6.0 Redox-2-6.0 DD-39-2		

100/300 Areas Unit Managers Meeting
February 8, 2012

Summary of Aquifer Tubes Sampled in the River Corridor Areas During January 2012						
Week	**100-BC**	**100-K**	**100-N**	**100-D/H**	**100-F**	**300 Area**
				DD-39-1 Redox-4-6.0 Redox-4-3.0 Redox-3-4.6 Redox-3-3.3		
30-31 Jan 12			C7881 N116mArray-8.5A			

Attachment 2

February 9, 2012, Unit Manager's Meeting
Field Remediation Status

100-B/C

- Continued remediation efforts at 100-C-7:1
- 100-C-7:1, 565,000 bank cubic meters removed, excavation depth 77 feet

- Continued load-out activities
- Truck and pup, 178,000 tons
- ERDF cans, 85,000 tons
- LDR material, 46,500 tons

- MSA continued engineering design and procurement for relocation of high voltage transmission line. Excavation permit complete

- Miscellaneous Restoration
- Continued railroad track removal

100-D

- Continued excavation, stockpiling and load-out at 100-D-30
- Began excavation, stockpiling and load-out at 100-D-50:1
- Completed deactivation and disassembly of NaK test specimens at 118-D-3:2, uranium capsules scheduled for delivery to CWC on 2/21/12
- Completed demolition and load-out of 118-D-3:2 soil and NaK secondary waste as per draft-approved work instruction; sampled on 2/7/12
- Completed potholes to support tier 3 design at 100-D-100
- Backfill campaign at D may start within a week in conjunction with 100-H

100-F

- Continued removal of the southern concrete tunnel wall at 100-F-57 that showed presence of Cr6
- Continued final closeout activities for remaining waste sites
- Began backfill campaign, backfill 90% complete
- Began revegetation campaign
- Continued truck and pup load-out from 100-F-57 stockpiles

100-H

- No activities being conducted at 100-H at this time
- May resume backfill/stockpile management at 132-H-3

100-K

- Continued final cleanup activities at trenches I and N (downposting/surveying/sampling/spot removal)
- Continued orphan site cleanup work (600-029, 128-K-2)
- Continued equipment decontamination activities

100-N

- Continued excavation and load-out at 100-N-28, 100-N-62, 100-N-63:2 and the Golf Ball Area and collocated waste sites (UPR-100-N-4, UPR-100-N-5, UPR-100-N-8, UPR-100-N-25, UPR-100-N-31 and 116-N-2)
- Completed verification sampling at 100-N-57

618-10 Trench Remediation

- Continued mock-ups, procedure development, and readiness activities for "in trench" bottle processing.
    - Proof of Concept Demonstration held on Thursday, Feb. 2.
- Continued Loadout readiness activities.
- Continued excavation of trench soils, and processing of drums and anomalies

100-IU-2/6

- As resources available remediate IU2/6 sites available
- Continued remediation of 600-320 subsite 7 and 600-299 subsite 2
- Waiting for completion of cultural review prior to remediation at the IU farmstead sites
- Cultural review completed for remediation of the IU White bluffs sites

Attachment 3

163696

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, January 30, 2012 11:10 AM
To: ^WCH Document Control
Subject: FW: 100-F-57:1 Verification Sample Results:

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

Thanks,

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

-----Original Message-----
From: Post, Thomas C [mailto:thomas.post@RL.gov]
Sent: Monday, January 30, 2012 8:15 AM
To: 'Guzzetti.Christopher@epamail.epa.gov'; Jakubek, Joshua E
Cc: Saueressig, Daniel G; Fancher, Jonathan D (Jon); Rollosson, Dalena I; Cantwell, Robert D; Parnell, Scott E
Subject: RE: 100-F-57:1 Verification Sample Results:

I concur as well.

Tom

-----Original Message-----
From: Guzzetti.Christopher@epamail.epa.gov [mailto:Guzzetti.Christopher@epamail.epa.gov]
Sent: Monday, January 30, 2012 7:21 AM
To: Jakubek, Joshua E
Cc: Saueressig, Daniel G; Fancher, Jonathan D (Jon); Rollosson, Dalena I; Cantwell, Robert D; Parnell, Scott E; Post, Thomas C
Subject: Re: 100-F-57:1 Verification Sample Results:

I concur with the proposed path forward.

Christopher J. Guzzetti
U.S. EPA Region 10
Hanford Project Office
Phone: (509) 376-9529
Fax: (509) 376-2396
Email: guzzetti.christopher@epa.gov

From: "Jakubek, Joshua E" <jejakube@wch-rcc.com>
To: "Post, Thomas C" <thomas.post@rl.doe.gov>, Christopher Guzzetti/R10/USEPA/US@EPA
Cc: "Fancher, Jonathan D (Jon)" <JDFANCHE@wch-rcc.com>, "Parnell, Scott E" <separnel@wch-rcc.com>, "Cantwell, Robert D" <rdcantwe@wch-rcc.com>, "Saueressig, Daniel G" <dgsauere@wch-rcc.com>, "Rollosson, Dalena I" <mirollos@wch-rcc.com>
Date: 01/25/2012 03:21 PM
Subject: 100-F-57:1 Verification Sample Results:

Gentlemen, we have the Cr6 and Asbestos results back from the 100-F-57:1 verification sampling campaign. Of the 12 sample locations within the excavation, we have 4ea failures for asbestos and 2ea for Cr6 (4.23 mg/kg and 3.74 mg/kg). Something to note is that we have 39 passing in-process Cr6 samples in that same area. With this being said, we feel that the two failed samples are likely localized to the failed sample locations. As far as asbestos, this seems odd since these failures are from elevations below the slab where no asbestos pipe cradles were found. Once more, we feel like this should be fairly localized. The silver lining, if there is such a thing… is that of these six failures, the two Cr6 failures are in the same locations as two of the asbestos failures, therefore we should only need to plume chase in four areas instead of six… We would like to propose excavating an approximately 10 foot diameter area to a depth of approximately 1 meter around each of the 4 failed locations and re-sample. Another thing to note is that we are still awaiting the ICP Metals results, which should be here in a couple of days. This e-mail may be a bit pre-mature, but we want to keep you abreast to the current state of 100-F-57:1. Please provide your thoughts, comments, or concurrence concerning this approach.

Thanks,

Josh Jakubek
Washington Closure Hanford
Resident Engineer
509-942-4703

"Safety, Productivity & Quality Achieved by Integrity & Teamwork."

Attachment 4

163803

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, February 06, 2012 6:35 AM
To: ^WCH Document Control
Subject: FW: Backfill use of 132-H-3 BCL - Northwest Stockpile

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

Thanks,

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

From: Boyd, Alicia (ECY) [mailto:aboy461@ecy.wa.gov]
Sent: Friday, February 03, 2012 2:43 PM
To: Harrison, Robert P
Cc: Saueressig, Daniel G; Howell, Theresa Q; Chance, Joanne C; Kapell, Arthur; Menard, Nina; Walmsley, Mignonette
Subject: RE: Backfill use of 132-H-3 BCL - Northwest Stockpile

The proposed planned use of the northwest BCL stockpile from 132-H-3 is acceptable. When modeling is used to show that soil meets Remedial Action Goals (RAGs) it is important to ensure that the results from and assumptions used in the modeling remain unchanged. In the case of the northwest BCL stockpile, it is important that it be placed more than 2 meters above the highest observed groundwater elevation to ensure protection of groundwater and/or surface water.

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

From: Harrison, Robert P [mailto:rpharris@wch-rcc.com]
Sent: Thursday, February 02, 2012 2:53 PM
To: Boyd, Alicia (ECY)
Cc: Laurenz, Julian E; Beasley, Michael E; Miller, Thomas R; Myers, R (Scott); Saueressig, Daniel G; Howell, Theresa Q; Thompson, Wendy S; Chance, Joanne C; Kapell, Arthur (ECY); Menard, Nina (ECY)
Subject: Backfill use of 132-H-3 BCL - Northwest Stockpile

Alicia: As per our recent phone discussion, below is our planned use of the northwest BCL stockpile from the 132-H-3 site.

The 100-D and 100-H project plans to use this BCL soil to backfill the former 132-H-3 ACL SPA located to the south. This former-SPA area was excavated to an approximate depth of 1 meter below surrounding grade. Groundwater depth in this area, based on observations of groundwater fluctuations in the 132-H-3

excavation, is on the order of 12 to 14 meters below grade. The RESRAD condition (as per the 132-H-3 Backfill Concurrence document) of 2 meters of separation is therefore met for this placement.

This area will only accept 1/3 of the BCL volume, however. The remainder of this BCL will be stockpiled atop this area as we have no other backfill opportunities available at this time.

When the WSRF is received, the 132-H-3 excavation will be backfilled with this material as well as the 132-H-3 south BCL stockpile (all lookup RAGS were met for the south BCL and no RESRAD modelling was utilized). The south BCL stockpile material will be placed at the existing bottom of the 132-H-3 excavation. Borrow pit material will also be placed in the bottom of the excavation and the grade will brought to an elevation of at last 3 meters above the highest-observed groundwater elevation. The RESRAD modelled BCL will then be used to backfill the upper portions of the 132-H-3 excavation - thereby satisfying the 2-meter separation requirement for RESRAD conditions to be true.

Please call with any questions.

Rob Harrison, P.E.
Resident Engineer
100-D and H Areas Field Remediation
Robert.Harrison@wch-rcc.com
509-554-7132
"Safety, Productivity & Quality Achieved by Integrity & Teamwork."

Attachment 5

163760

Approval to Treat the 100-D-100 Chromium Contaminated Soil in Accordance with the "TREATMENT PLAN AND PROTOCOL FOR TREATMENT OF CHROMIUM-CONTAMINATED SOILS, WCH-284, Rev. 2"

This approval applies to approximately 7,500 m3 of chromium contaminated soil from the 100-D-100 waste site as described under waste profiles WP100D100001 and WP100D100005. The waste matrix consists of chromium contaminated soil. Sample# J1M000 had a high of 35.8 mg/L TCLP chromium for approximately 7,000 m3 of this material and sample# J1M0C9 had a high of 37.4 mg/L TCLP chromium for the remaining 500 m3 of soil from the 100-D-100 waste site.

The waste is similar to the material treated in *"TREATMENT PLAN AND PROTOCOL FOR TREATMENT OF CHROMIUM-CONTAMINATED SOILS, WCH-284, Rev. 2".*

This approval allows treatment of this waste using the recipe described in Table 1, *Bench-Scale Test Results for the 100-D-56 and 100-C-7* of the treatment plan under Mixture 3, which limits the TCLP chromium to 36 mg/L. For the 500 m3 of material that had TCLP results for chromium up to 37.4 mg/L, mixture 3 has a bench-scale test reduction factor of 25.4, therefore mixture 3 will meet the minimum treatment standard of 10 times the universal treatment standard (0.6 mg/L) or 6.0 mg/L.

Nina M. Menard — 1/30/2012

Nina Menard — **Date**
State of Washington Department of Ecology

Thomas C. Post — 1/30/12

Tom Post — **Date**
U.S. Department of Energy

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D. G. Saueressig	N3-30
S. G. Wilkinson	N3-30
J. A. Winterhalder	N3-30
Document Control	H4-11

Attachment 6

163751

^WCH Document Control

From: Howell, Theresa Q
Sent: Tuesday, January 31, 2012 1:54 PM
To: ^WCH Document Control
Cc: Proctor, Megan L; Saueressig, Daniel G; Myers, R (Scott); Harrison, Robert P
Subject: FW: CLOSURE OF 100-D-3:2 ANOMALY STAGING AREA
Attachments: 118-D-3-2 WORK INSTRUCTION.doc

Please chron this email and attachment as documentation of the approved 118-D-3:2 sampling design. This supercedes CCN 163069.

Thank you,
Theresa Howell

From: Kapell, Arthur (ECY) [mailto:akap461@ECY.WA.GOV]
Sent: Tuesday, January 31, 2012 1:42 PM
To: Saueressig, Daniel G; Laura Buelow
Cc: Boyd, Alicia; Menard, Nina; Post, Thomas C; Myers, R (Scott); Wilkinson, Stephen G; Landon, Roger J; Howell, Theresa Q
Subject: RE: CLOSURE OF 100-D-3:2 ANOMALY STAGING AREA

Dan,

You have requested concurrence with the steps outlined in your email of January 26, 2012, as copied below, for closure of the anomaly staging area at 100-D-3:2. Closure of any staging pile must follow the same closure procedures as outlined in the Remedial Design Report/Remedial Action Work Plan (DOE/RL-96-17). Sections of the RDR/RAWP relevant to staging pile closure are as follows:

"Staging piles must be closed by removing or decontaminating all remediation waste; contaminated containment system components, structures, and equipment contaminated with waste; and leachate."

"Within 180 days after the operating term of the staging pile located in a previously uncontaminated area expires, the staging pile must be closed in accordance with substantive provisions of 40 CFR 264.258(a) and 40 CFR 264.111, or 40 CFR 265.258(a) and 40 CFR 265.111. This includes removing all remediation waste, contaminated containment system components, contaminated structures and equipment, and leachate. "

"Once characterization and designation of the material is completed, the waste will be loaded into containers for transport to ERDF or shipped offsite for treatment and/or disposal, as appropriate. To close out the staging pile areas after the waste has been removed, samples of the residual soil will be collected in accordance with the 100 Area SAP or 100 Area Burial Grounds SAP (DOERL 2008, 2001 a), as appropriate. The sample results will be evaluated with the soil cleanup levels in Table 2-1 to demonstrate attainment of the RAOs."

To summarize, all remediation waste must have been characterized and loaded into containers for transport to ERDF or shipped offsite for disposal. Samples of residual soil must be collected and evaluated against soil cleanup levels to demonstrate attainment with the RAOs.

I have reviewed and accept the changes to the draft verification sampling plan, which now include a statistically derived sample in the New Bunker Area as well as new sample locations in the updated Table 2. Additionally, Ecology has agreed that the aqueous waste collected from treatment of the NaK may be placed in the staging pile area approved in 2009. As with all remediation waste from the site, this aqueous waste must also be transported to ERDF or shipped offsite for disposal by the required closing date of March 16, 2012.

Once Ecology and the EPA have received the sample results in the form of a comparison table, together with a verbal description of how the results document that the area is clean, it can be determined whether the staging pile area is considered closed. I am in agreement with documenting approval of the closure via email, and subsequent submission in the UMM minutes. Additionally, formal closure of the 118-D-3:2 site will follow with the normal closure process for closing waste sites.

Artie Kapell
Nuclear Waste Program
Washington State Department of Ecology
(509) 372-7972
(509) 372-7971 Fax

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Thursday, January 26, 2012 9:16 AM
To: Laura Buelow; Kapell, Arthur (ECY)
Cc: Boyd, Alicia (ECY); Menard, Nina (ECY); Post, Thomas C; Myers, R (Scott); Wilkinson, Stephen G; Landon, Roger J
Subject: CLOSURE OF 100-D-3:2 ANOMALY STAGING AREA

Laura/Artie, I know we've had verbal discussions on what it what needs to be done to ensure that the anomaly staging area gets closed to your satisfaction and by March 16, 2012. I'd like to summarize what I believe we agreed is necessary to close this area. Can you look this over and provide your concurrence?

Closure of the 118-D-3:2 anomaly staging area will be complete when all waste has been removed from the 100-D area (NaK treated, uranium moved to CWC, and all waste, including potentially contaminated soil underneath the area dispositioned, etc.). Samples will be taken of the soils in the area per an Ecology approved Verification Work Instruction. Once sample results confirm that the area is clean (all sample results below Remedial Action Goals), a comparison table demonstrating that the soil is clean will be provided to Ecology and EPA with a short summary documenting that the area is clean. Agreement that the area has been closed from a staging pile perspective will be documented via email and submitted in the UMM minutes. Formal closure of the 118-D-3:2 waste site will follow with Ecology approval of the CVP following the normal closure process for waste sites.

Let me know if this is reflective of our verbal conversations.

Thanks,

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

WORK INSTRUCTION

FOR

VERIFICATION SAMPLING OF THE 118-D-3:2, FUEL AND ANOMALY CHARACTERIZATION AREAS

	RIVER CORRIDOR CLOSURE PROJECT	Job No. 14655
		Work Instruction No. 0100D-WI-G0103
		Sheet 1 of 3

Approved By:		
	DOE/RL Lead	**Date:**
J. C. Chance		
	Ecology Lead	**Date:**
N. Menard		

Table 1. Laboratory Analytical Methods.

Analytical Method	COPCs
ICP metals [a] – EPA Method 6010	Boron, cadmium, chromium (total), lead
Mercury – EPA Method 7471	Mercury
Hexavalent chromium – EPA Method 7196	Hexavalent chromium
IC anions [b] – Method 300.0	Sulfate
NO_2/NO_3 – EPA Method 353 [c]	Nitrogen in nitrate and nitrite
VOA – EPA Method 8260	Volatile organic compounds
SVOA – EPA Method 8270	Semivolatile organic compounds
GEA – Gamma spectroscopy	Americium-241, cobalt-60, cesium-137, europium-152, europium-154, silver-108m
Nickel-63 – Liquid scintillation	Nickel-63
Carbon-14 – Liquid scintillation	Carbon-14
Total radiostrontium	Strontium-90
Isotopic plutonium	Plutonium-238, plutonium-239/240
Isotopic uranium	Uranium-233/234, uranium-235, uranium-238
Tritium [d] - Liquid scintillation	Tritium

[a] The expanded list of ICP metals will include aluminum, antimony, arsenic, barium, beryllium, calcium, chromium (total), cobalt, copper, iron, magnesium, manganese, molybdenum, nickel, potassium, selenium, silicon, silver, sodium, vanadium, and zinc in the analytical results package.

[b] The expanded list of IC anions will be performed to include bromide, fluoride, chlorine, nitrate, phosphate, nitrite, and sulfate in the analytical results package.

[c] To preclude holding time issues associated with EPA Method 300.0 for nitrites and nitrates, EPA Method 353 will be performed.

[d] The portion of the sample for tritium analyses will be collected at a depth of 0.15m (6-in) below the excavation surface per Tri-Party Agreement Change Notice TPA-CN-177 (date August 21, 2007).

COPC = contaminant of potential concern
EPA = U. S. Environmental Protection Agency
GEA = gamma energy analysis
ICP = inductively coupled plasma
SVOA = semivolatile organic analysis
VOA = volatile organic analysis

Table 2. 118-D-3:2 Subsite Verification Sample Summary.

Decision Unit	Sample Location	Sample Number	Northing	Easting	Sample Analysis
Excavation	EX-1	TBD	151131.4	574087.7	ICP metals [a], mercury, hexavalent chromium, VOA, SVOA, GEA, nickel-63, carbon-14, strontium-90, isotopic plutonium, isotopic uranium, tritium [b], anions [c], nitrate/nitrite
	EX -2	TBD	151131.4	574098.2	
	EX -3	TBD	151131.4	574108.8	
	EX -4	TBD	151131.4	574119.3	
	EX -5	TBD	151140.5	574093.0	
	EX -6	TBD	151140.5	574103.5	
	EX -7	TBD	151140.5	574114.0	
	EX -8	TBD	151149.6	574087.7	
	EX -9	TBD	151149.6	574098.2	
	EX -10	TBD	151167.8	574087.7	
	EX -11	TBD	151167.8	574108.8	
	EX -12	TBD	151176.9	574114.0	
	EX -Duplicate [d] (excavation)	TBD	TBD	TBD	
	EX -Split [d] (excavation)	TBD	TBD	TBD	
Focused Samples	FS-1	TBD	151144.0	574085.0	
	FS-2	TBD	151144.0	574083.0	
	FS-3	TBD	151143.0	574083.0	
	FS-4	TBD	151151.8	574101.3	
	FS-5	TBD	151144.9	574098.2	
	FS-6	TBD	151134.1	574093.5	
NA	Equipment. blank	TBD	NA	NA	ICP metals [a], mercury, SVOA, VOA
NA	Trip blanks [e]	TBD	NA	NA	VOA

[a] The expanded list of ICP metals will include aluminum, antimony, arsenic, barium, beryllium, calcium, chromium (total), cobalt, copper, iron, magnesium, manganese, molybdenum, nickel, potassium, selenium, silicon, silver, sodium, vanadium, and zinc in the analytical results package.

[b] The portion of the sample for tritium analysis will be collected at a depth of 0.15 m (6 in.) below the excavation surface per Tri-Party Agreement Change Notice TPA-CN-177 (dated August 21, 2007).

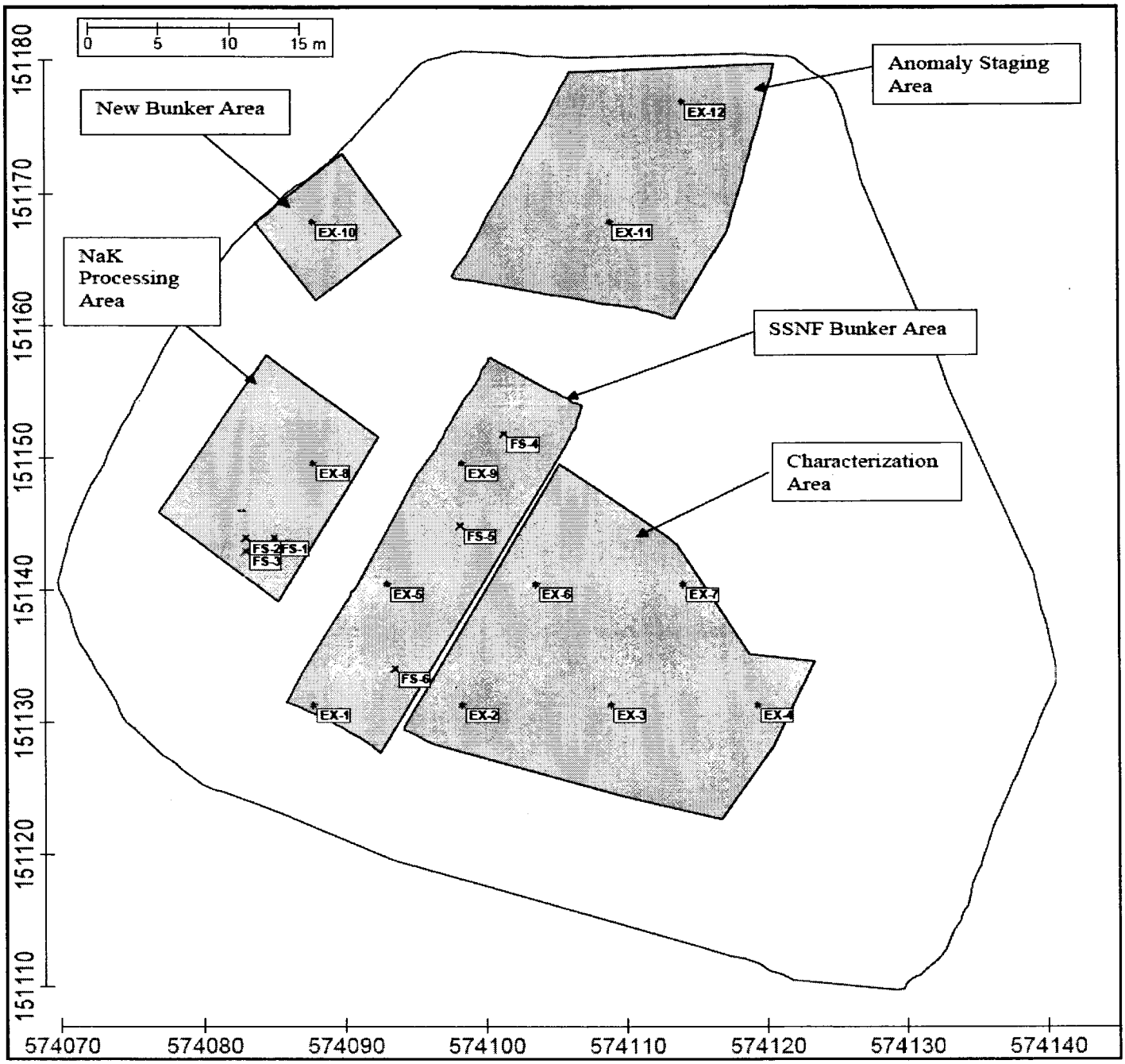
[c] The expanded list of IC anions will be performed to include bromide, fluoride, chlorine, nitrate, phosphate, nitrite, and sulfate in the analytical results package.

[d] The duplicate soil sample location will be at the discretion of the project analytical lead.

[e] Trip blanks will be collected for each day of sampling.

GEA = gamma energy analysis
IC = ion chromatography
ICP = inductively coupled plasma
NA = not applicable
SVOA = semivolatile organic compounds
TBD = to be determined
VOA = volatile organic analysis

Figure 1. Verification Sample Locations for the 118-D-3:2 Subsite.



Attachment 7

163802

^WCH Document Control

From: Saueressig, Daniel G
Sent: Friday, February 03, 2012 11:28 AM
To: ^WCH Document Control
Subject: FW: Storing aqueous waste from NaK treatment

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

Thanks,

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

From: Kapell, Arthur (ECY) [mailto:akap461@ECY.WA.GOV]
Sent: Friday, January 27, 2012 1:43 PM
To: Saueressig, Daniel G
Cc: Boyd, Alicia; Post, Thomas C
Subject: Storing aqueous waste from NaK treatment

Dan,

You have indicated that there will be approximately 20 to 30 gallons of waste from the condensate used while treating the NaK. This waste will be transferred to drums (probably two of them) in the NaK staging area. To expediently scrape and conduct verification sampling of the NaK areas, WCH would like to move these drums elsewhere while awaiting the return of lab results. There is the expectation that the drums will be accepted at either ERDF or Permafix.
The two locations you have suggested for the storage of the drums are either a staging pile or a container transfer area (CTA). The drums would be stored on top of a spill pallet, which would be where any pH adjustment and stabilization of the content of the drums would take place.

Section 4.5 of the Remedial Design Report / Remedial Action Work Plan for the 100 Area (DOE/FL-96-17) allows storage prior to disposal at the AOC or staging piles. It reads, in part, as follows:

4.5 STORAGE

> "... In general, disposal of waste recovered in support of this RDR/RAWP will either be disposed of at ERDF, or other approved onsite or offsite facility. As necessary, waste will be stored within the AOC, in staging piles in the OU, or at ERDF as described in the following subsections."

While awaiting analytical results from sampling of the drums and prior to their removal for disposal, it would be appropriate to store them in the staging pile approved in 2009. Unless there is a spill associated with treatment of the contents for pH adjustment or stabilization in concrete or absorbed in a non-biodegradable absorbent, I do not see the need for sampling beneath the spill pallet following the

removal of the drums to ERDF or other location. Should there be any spills during treatment of the drums I would like to be notified for consideration of sampling.

Artie Kapell
Nuclear Waste Program
Washington State Department of Ecology
(509) 372-7972
(509) 372-7971 Fax

Attachment 8

163619

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, January 23, 2012 1:03 PM
To: ^WCH Document Control
Subject: FW: MODIFICATION REQUEST TO NAK TREATMENT PLAN

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

Thanks,

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

From: Tom's Gmail [mailto:tpost6@gmail.com]
Sent: Monday, January 23, 2012 1:02 PM
To: Saueressig, Daniel G
Subject: Re: MODIFICATION REQUEST TO NAK TREATMENT PLAN

Dan,

Per our discussion last week, I concur.

Thanks.

Tom

Sent from my iPhone

On Jan 23, 2012, at 12:17 PM, "Saueressig, Daniel G" <dgsauere@wch-rcc.com> wrote:

> FYI
>
> Thanks,
>
> Dan Saueressig
> FR Environmental Project Lead
> Washington Closure Hanford
> 521-5326
>
> ---
>
> **From:** Kapell, Arthur (ECY) [mailto:akap461@ECY.WA.GOV]
> **Sent:** Wednesday, January 18, 2012 4:19 PM
> **To:** Saueressig, Daniel G; Post, Thomas C

Cc: Myers, R (Scott); Wilkinson, Stephen G; Landon, Roger J; Boyd, Alicia
Subject: RE: MODIFICATION REQUEST TO NAK TREATMENT PLAN

Dan,

I understand that a mistake was made in the wording of the NaK treatment plan, as you have written in your email. I concur that the change should be made to the treatment plan.

Artie Kapell
Nuclear Waste Program
Washington State Department of Ecology
(509) 372-7972
(509) 372-7971 Fax

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Wednesday, January 18, 2012 11:59 AM
To: Kapell, Arthur (ECY); Post, Thomas C
Cc: Myers, R (Scott); Wilkinson, Stephen G; Landon, Roger J
Subject: MODIFICATION REQUEST TO NAK TREATMENT PLAN

Artie/Tom, per our conversation earlier, I'd like to request your approval for a small change to the NaK treatment plan (attached). Section 3.1, NaK Deactivation, page 3 of 9, item 2 last sentence reads "The pressure will not be allowed to exceed 25 psig, and the maximum temperature allowed is 250 °F."

This statement is not correct, the minimum temperature should be 250 °F, not maximum temperature, so that condensate doesn't form.

With that said, I'd like to change this sentence to read "The Mark III will be operated at a nominal pressure of approximately 25 psig and will be maintained at a temperature above 250 °F to minimize condensate."

Let me know if you concur with the change and I'll document at the next UMM.

Thanks,

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

<< File: NaK treatment plan.pdf >>

Attachment 9

100 Area D4/ISS Status
February 9, 2012

D4 (WCH)

181-N River Pumphouse: Demolition began last month with the toppling of the 181-NA Guard Tower, which has now been size reduced and loaded out. The diesel pump house and 181-NB No. 3 Diesel Pumphouse have also been demolished and loaded out. Approximately 80% of the structures deck has been hammered and collapsed to its interior. Excavation has been started to access and demolish the below grade east wall.

181-NE HGP River Pumphouse: Preparations for demolition were completed last week with final asbestos abatement of pipes on the south side and installation of additional erosion controls (hay bale barrier) at the shoreline. Approximately 20% of the deck has been hammered and collapsed to the structures interior.

1908-NE HGP Outfall: No significant demolition activities conducted to date.

182-N High Lift Pumphouse: Above grade demolition and load out complete. The ramp being excavated (for equipment to access the below grade floor and debris) is almost complete. Demolition of railroad tracks and ties west of facility complete.

105-N Fuel Storage Basin (FSB): Demolition and load out of north and south FSB floors approximately 90% compete. Department of Health (DOH) returned to 100-N last week and collected additional air samples. To date, radiological controls in place have kept dose levels below ALARA goals.

105-NE Fission Products Trap (FPT): Excavation and load out of soil and structures around FPT, including tunnels between the reactor building and 117-N Exhaust Air Filter House, complete. Demolition of FPT began earlier this week.

105-N/109-N Reactor/Heat Exchanger Buildings (ISS): ISS complete with the exception of installing pour backs and plates below grade on west side, which is contingent on completing the FSB excavation. Currently in the process of securing a subcontractor to complete the ISS on the west side. Bids for the work are due February 16, 2012 and subcontract award is expected by the end of this month.

Other Areas

400 Area: All buildings scheduled for demolition in 400 Area complete and loaded out with exception of 4702. Demolition of the 4702 above grade is 100% complete. Removal of the flooring over the crawl space is approximately 95% complete. Load out of debris is 80% complete. Pipes with asbestos in crawl space are being wrapped as soon as safe access is gained. Completion of 4702, and demobilization from 400 Area, currently forecasted for mid February.

Attachment 10

163746

^WCH Document Control

From: Faust, Toni L
Sent: Tuesday, January 31, 2012 12:05 PM
To: ^WCH Document Control
Subject: FW: 100-N-59 verification sampling
Attachments: RE: 100-N-59 verification sampling

Please provide a chron number for the below regulatory agreement. Please include the attached email showing concurrence from RL too. Please provide electronic distribution to the below of the chron document.

Toni Faust
Dan Saueressig
Jeff Walker

From: Boyd, Alicia (ECY) [mailto:aboy461@ecy.wa.gov]
Sent: Tuesday, January 31, 2012 11:38 AM
To: Faust, Toni L; Chance, Joanne C
Cc: Howell, Theresa Q
Subject: RE: 100-N-59 verification sampling

Toni & Theresa
The proposed composite sampling method for 100-N-59 waste site is acceptable to Ecology. This waste sites is very small and adjacent to the 100-N-63:2 waste site. Please proceed with a draft verification work instruction including sampling as described below.

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

From: Faust, Toni L [mailto:tlfaust@wch-rcc.com]
Sent: Thursday, January 12, 2012 6:49 AM
To: Boyd, Alicia (ECY); Yokel, Jerry (ECY); Chance, Joanne C
Cc: Walker, Jeffrey L; Saueressig, Daniel G; Buckmaster, Mark A
Subject: 100-N-59 verification sampling

Alica and Joanne

WCH request an email concurrence with the below to initiate writing the verification work instruction for 100-N-59 waste site. This site was previously cleaned up as part of the spill response/line leak repair in 1995. The clean backfill has recently been removed as part of the 100-N-63:2 waste site remediation including removal of the pipe that is believed to be the source of the 100-N-59 release.

Based on Jerel's review of the WIDs information, site visit and conversations with FR, it is proposed that the 100-N-59 waste site verification sampling will consist of a composite sample and duplicate which results will then be directly compared to the RAGs. FR would like to base the COPCs for 100-N-59 on the contents of the 100-N-63:2 pipe waste since it would be the potential source.

The verification work instructions list the COPCs for 100-N-63 as americium-241, cesium-137, cobalt-60, europium-154, europium-155, nickel-63, plutonium-239/240, strontium-90, thorium-228, thorium-232, uranium-233/234, uranium-238, tritium, ICP metals (cadmium, lead, and total chromium), mercury, and hexavalent chromium based on the TSD ROD and TSD RDR/RAWP (DOE/RL-2000-16 rev 2). Other

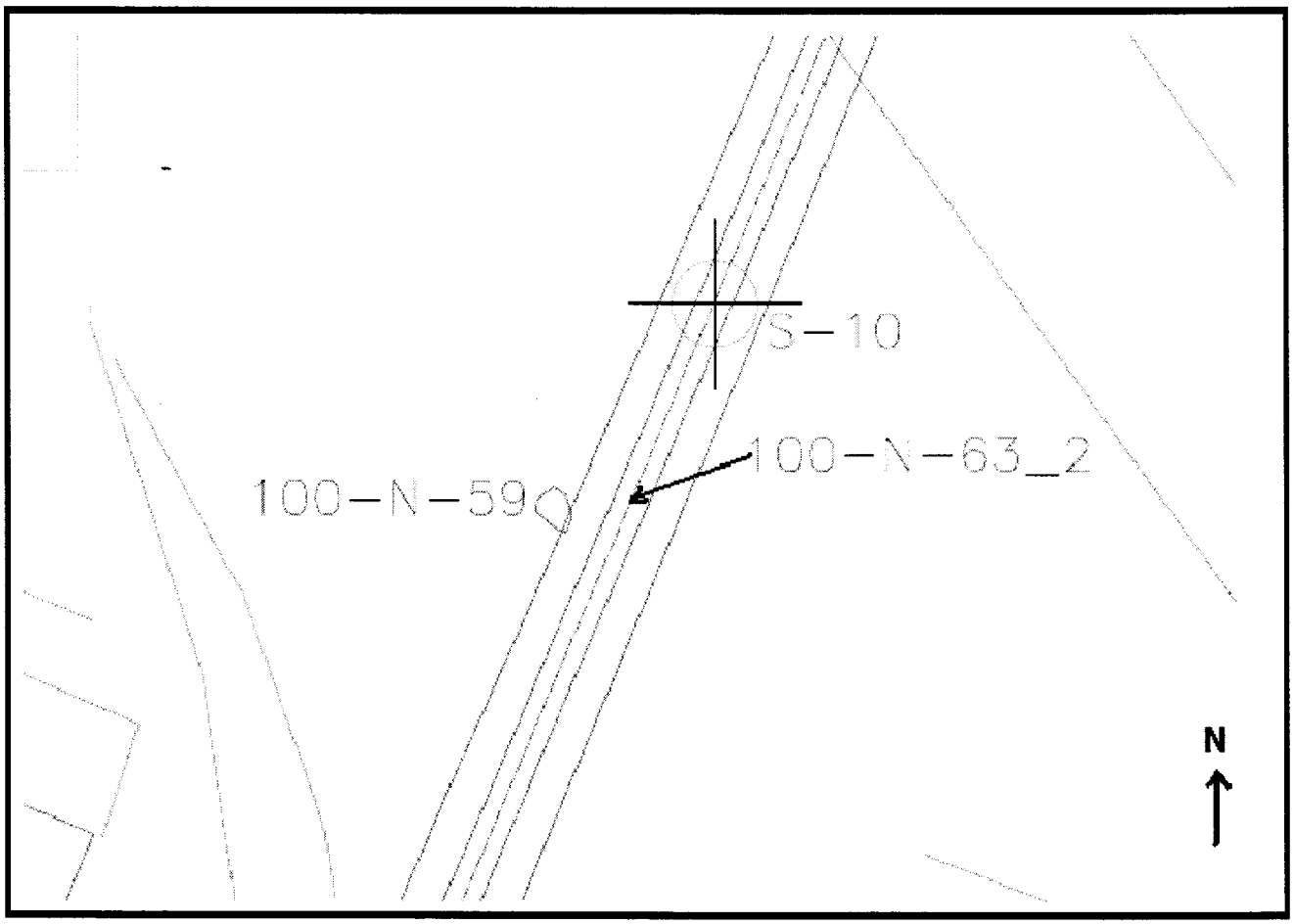
COPCs were added to the 100-N-63:2 VWI due to collocated waste site however are not applicable to 100-N-59 based on the site location and history. Therefore only the above listed analytes would be analyzed for.

The composite sample and duplicate design will be collected in accordance with the 100-N Area CERCLA SAP (DOE/RL-2005-92), Appendix B, Section B.2 last paragraph.

Below is a sketch of the 100-N-59 waste site location as it relates to the 100-N-63:2 waste site. From this you can see that there is also a verification sample for the 100-N-63:2 (S-10) near the 100-N-59 waste site. WCH is not intending to use the results of this sample to support 100-N-59 closure.

Please let me know if you have question or comments.

Thanks toni



^WCH Document Control

From: Chance, Joanne C [joanne.chance@RL.gov]
Sent: Friday, January 13, 2012 10:53 AM
To: Faust, Toni L
Subject: RE: 100-N-59 verification sampling

Toni,

Based on your map from 12-28-11 meeting, my impression is that this is a small site, so I am fine with a composite sample as long as Ecology is. I thought, however, that Ecology has not been receptive to them in the past.

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

From: Faust, Toni L [mailto:tlfaust@wch-rcc.com]
Sent: Thursday, January 12, 2012 6:49 AM
To: Boyd, Alicia; Yokel, Jerel W; Chance, Joanne C
Cc: Walker, Jeffrey L; Saueressig, Daniel G; Buckmaster, Mark A
Subject: 100-N-59 verification sampling

Alica and Joanne

WCH request an email concurrence with the below to initiate writing the verification work instruction for 100-N-59 waste site. This site was previously cleaned up as part of the spill response/line leak repair in 1995. The clean backfill has recently been removed as part of the 100-N-63:2 waste site remediation including removal of the pipe that is believed to be the source of the 100-N-59 release.

Based on Jerel's review of the WIDs information, site visit and conversations with FR, it is proposed that the 100-N-59 waste site verification sampling will consist of a composite sample and duplicate which results will then be directly compared to the RAGs. FR would like to base the COPCs for 100-N-59 on the contents of the 100-N-63:2 pipe waste since it would be the potential source.

The verification work instructions list the COPCs for 100-N-63 as americium-241, cesium-137, cobalt-60, europium-154, europium-155, nickel-63, plutonium-239/240, strontium-90, thorium-228, thorium-232, uranium-233/234, uranium-238, tritium, ICP metals (cadmium, lead, and total chromium), mercury, and hexavalent chromium based on the TSD ROD and TSD RDR/RAWP (DOE/RL-2000-16 rev 2). Other COPCs were added to the 100-N-63:2 VWI due to collocated waste site however are not applicable to 100-N-59 based on the site location and history. Therefore only the above listed analytes would be analyzed for.

The composite sample and duplicate design will be collected in accordance with the 100-N Area CERCLA SAP (DOE/RL-2005-92), Appendix B, Section B.2 last paragraph.

Below is a sketch of the 100-N-59 waste site location as it relates to the 100-N-63:2 waste site. From this you can see that there is also a verification sample for the 100-N-63:2 (S-10) near the 100-N-59 waste site. WCH is not intending to use the results of this sample to support 100-N-59 closure.

Please let me know if you have question or comments.

Thanks toni

<< OLE Object: PBrush >>

Attachment 11

163745

^WCH Document Control

From: Faust, Toni L
Sent: Tuesday, January 31, 2012 11:30 AM
To: ^WCH Document Control
Cc: Saueressig, Daniel G; Walker, Jeffrey L
Subject: FW: 100-N-63:2 area of High Radiological background and Verification work Instruction Requirement

Please provide a Chron number for the below email series as a regulatory agreement. Please electronically distribute to the below.

Mark Buckmaster
Toni Faust
Dan Saueressig
Jeff Walker

Thanks toni

From: Boyd, Alicia (ECY) [mailto:aboy461@ecy.wa.gov]
Sent: Tuesday, January 31, 2012 8:40 AM
To: Faust, Toni L
Cc: Chance, Joanne C
Subject: RE: 100-N-63:2 area of High Radiological background and Verification work Instruction Requirement

Toni
The logic to collect a sample rather than perform GPERS is sound. Please proceed as described in your e-mail 1/12/2012.

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

From: Faust, Toni L [mailto:tlfaust@wch-rcc.com]
Sent: Tuesday, January 24, 2012 9:46 AM
To: Boyd, Alicia (ECY)
Cc: Kobierowski, Mitchell S; Chance, Joanne C; Saueressig, Daniel G; Walker, Jeffrey L
Subject: RE: 100-N-63:2 area of High Radiological background and Verification work Instruction Requirement

Alicia

Based on our conversation last night on performing GPERS of the high background portion of the 100-N-63:2 wastes site I checked with the 100-N FR Radcon lead and the GPERS lead. GPERS survey of the area will not indicate the source (shine from the building or fission product trap, or if it is actual soil contamination). The survey will not give an accurate interpretation of the area either since the background variance is fairly large even in this sort distance, partly because of the ongoing D4 excavation at the fission product trap (FPT) area. Because the fuel storage basin excavated material staged near the north west corner of the building and the soon to be exposed FPT it is important we get this resolved and collect any samples ASAP. Breaking into the FPT in the next couple of weeks will likely increase the background even more. I am requesting concurrence to obtain the composite soil samples and not

attempt to collect the GPERS. If possible please reply this afternoon.

Thanks toni

From: Boyd, Alicia (ECY) [mailto:aboy461@ecy.wa.gov]
Sent: Thursday, January 19, 2012 10:41 AM
To: Faust, Toni L
Subject: RE: 100-N-63:2 area of High Radiological background and Verification work Instruction Requirement

Toni,
I need some clarification on the picture you provided since it's not in color. Is the "red" portion the entire bubbled in portion northwest, north, and northeast of the 105 bulding? Or is it some other smaller sedction that I just can't see?
Also, could you give me a call? We'll talk for a bit about the concept of GPERS vs. the beta/gamma on soil samples.
Alicia

From: Faust, Toni L [tlfaust@wch-rcc.com]
Sent: Thursday, January 12, 2012 11:45 AM
To: Boyd, Alicia (ECY); Chance, Joanne C
Cc: Saueressig, Daniel G; Walker, Jeffrey L; Buckmaster, Mark A
Subject: 100-N-63:2 area of High Radiological background and Verification work Instruction Requirement

100-N FR is requesting concurrence with a slight deviation from the 100-N-63:2 verification work instruction (0100N-WI-G0022) section 3.0 (site remediation) includes the statement:

> *Ecology will be provided, for review and backfill concurrence, the sample data and GPERS for any area backfilled at risk when it becomes available. At the completion of excavation and prior to backfill of the remediated 100-N-63:2 subsite, GPERS will be performed for the area within the excavation footprint.*

The red portion of the 100-N-63:2 pipeline in the sketch below has a high radiological background which precludes obtaining an accurate GPERS survey. This background is most likely due to the current on going D4 activities at the reactor and fission product trap.
FR would like to collect two in-process composite soil samples and analyze then for GEA and gross beta which will give the same basic information as the GPERs except in a concentration not dpm units.
Note this portion of the 100-N-63:2 waste site is not part of the RCRA TSD permitted facility cloud.
Also there is no verification sample along this section. The results of the in process composite soil sample will be reported in the CVP but not specifically used in any calculation since it is being used to support what a GPERS survey would.
To keep both D4 and FR making progress, please provide your concurrence as soon as possible.
Thanks toni

Attachment 12

164121

^WCH Document Control

From: Saueressig, Daniel G
Sent: Thursday, February 09, 2012 8:48 AM
To: ^WCH Document Control
Subject: FW: OFFSITE APPROVAL REQUEST

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

Thanks,

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

-----Original Message-----
From: Saueressig, Daniel G
Sent: Thursday, February 09, 2012 8:47 AM
To: 'Laura Buelow'
Cc: Boyd, Alicia; Chance, Joanne C; Buckmaster, Mark A
Subject: RE: OFFSITE APPROVAL REQUEST

Thanks Laura, since I made this request, approximately 80 additional gallons of bunker oil was drained from these pipelines. WCH also plans to ship this material on March 20, 2012 in addition to any more material that is encountered prior to the shipment date. These pipelines continue to be encountered during remediation activities at 100-N.

Thanks again for your quick reply to this request.

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

-----Original Message-----
From: Laura Buelow [mailto:Buelow.Laura@epamail.epa.gov]
Sent: Wednesday, February 08, 2012 8:17 AM
To: Saueressig, Daniel G
Cc: Boyd, Alicia; Chance, Joanne C; Buckmaster, Mark A
Subject: Re: OFFSITE APPROVAL REQUEST

Dan,

Burlington Environmental is acceptable through April 3, 2012.

Laura Buelow, Environmental Scientist
U.S. Environmental Protection Agency
Hanford Project Office
309 Bradley Blvd, Suite 115
Richland, WA 99352
Phone: 509 376-5466
Fax: 509 376-2396
E-mail: buelow.laura@epa.gov

From: "Saueressig, Daniel G" <dgsauere@wch-rcc.com>
To: Laura Buelow/R10/USEPA/US@EPA
Cc: "Boyd, Alicia" <ABOY461@ECY.WA.GOV>, "Chance, Joanne C"

<joanne.chance@rl.doe.gov>, "Buckmaster, Mark A"
<MABUCKMA@wch-rcc.com>
Date: 01/26/2012 04:04 PM
Subject: OFFSITE APPROVAL REQUEST

Hi Laura, I'd like to request your approval in accordance with 40 CFR 300.440 and Section 4.2.3 of the RDR/RAWP for the 100-N Area
(DOE/RL-2005-93) to send some waste offsite for treatment/disposal.

7 container (approximately 325 gallons) on Bunker C oil from the 100-N are scheduled to go to Burlington Environmental, LLC, 20245 77th Ave., South, Kent, WA 98302, EPA ID #: WAD991281767 on February 21, 2012. If shipment can't be made by February 21, 2012, it may be shipped on March 20, 2012.

Let me know if you concur and we'll move forward with getting this material shipped for treatment and disposal.

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

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

Attachment 13

300 Area Closure Project Status
February 9, 2012
100/300 Area Combined Unit Manager Meeting

Ongoing Activities

- 309 – Turned over to subcontractor for reactor removal. Drilling of wire saw pilot holes has been initiated.
- 340 Complex – Completing shipment of 340-A Tanks to ERDF and demolition of 340-A slab.
- 307 Basins – Demolition of retention basins has been initiated.
- 3730 - Preparing to place source term array and grout sources in facility.
- 308 – Initiated demolition of the 308 building, completing load-out of 308-A above grade debris.
- 326 & 329 – Hazardous material removal ongoing.
- 320 – Completing below-grade demolition and process sewer removal.
- 327 – Restarted below-grade demolition activities.
- 321 & 3706 – Completing remediation.

Current Demolition & Remediation Preparation Activities

- Prepare procurement for subcontractor waste site remediation services south of Apple St.
- Finalize preparations for 310 TEDF demolition.

60-Day Project Look Ahead

- Continue 340 Complex waste site remediation and finalize engineering for vault removal.
- Continue 308 demolition. Finalize engineering for TRIGA reactor removal.
- Complete below-grade demolition and backfill of 320 Building.
- Complete 327 below-grade demolition.
- Complete work at the 337 Complex, backfill and close area.
- Initiate north of Apple (Zone 7) process sewer remediation.
- Complete remediation 321 and 3706 areas.
- Continue 309 reactor removal activities.
- Grout sources in 3730 gamma irradiation pit.

Attachment 14

Environmental Protection Mission Completion Project
February 9, 2012

Long-Term Stewardship

- The consolidated Rev. 0, 100-F/IU-2/IU-6 - Segment 2 turnover and transition package is in the process of being finalized for transmittal to RL by MSA.
- The 100-F/IU-2/IU-6 – Segment 3 turnover and transition package will be transmitted to RL the week of February 6, 2012.
- The 100-F/IU-2/IU-6 Area – Segment 3 Interim Remedial Action Report is scheduled to be transmitted to RL the week of February 27, 2012 for review and subsequent transmittal to EPA for review.

River Corridor Baseline Risk Assessment

- The RCBRA Ecological Risk Assessment (Volume I) is being finalized. The Rev 0 document will be submitted to DOE on February 23, 2012 for approval.

Remedial Investigation of Hanford Site Releases to the Columbia River

- Regulator comments on the Draft A screening level ecological risk assessment were received on December 27. Comment review and incorporation are underway. Comment resolution meetings were held on January 26 and February 6, 2012.
- The Draft A human health risk assessment was delivered to DOE on January 4, 2012 for initiation of the regulator review. The regulator review was initiated on January 11, 2012. Comments are anticipated by February 27, 2012.

Document Review Look-Ahead

Document	Regulator Review Start	Duration
Columbia River Component Risk Assessment – Baseline Human Health Risk Assessment Report (DOE/RL-2010-117, Draft A, Volume II)	January 11, 2012	45 days
100-F/IU-2/IU-6 Area – Segment 3 Interim Remedial Action Report	February 28, 2012	30 days