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100/300 AREA UNIT MANAGER MEETING
ATTENDANCE AND DISTRIBUTION
December 14, 2006

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100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MINUTES
December 14, 2006

APPROVAL: _____ Date 1/11/2007
Kevin D. Bazzell, DOE (A3-04)
River Corridor Project Manager

APPROVAL: _____ Date 1/11/2007
Briant Charboneau, DOE (A6-33)
Groundwater Project Manager

APPROVAL: _____ Date 1/11/2007
John Price or Rick Bond, Ecology (H0-57)
Environmental Restoration Manager

APPROVAL: _____ Date 1-11-2007
Larry Gadbois or Dennis Faulk, EPA
(B1-46) Rod Walsh for Dennis Faulk
100 Aggregate Area Unit Manager

APPROVAL: Alicia Boyd Date 1-11-2007
Alicia Boyd, EPA (B1-46)
300 Aggregate Area Unit Manager

100 & 300 AREA UNIT MANAGER MEETING MINUTES

Groundwater, Source Operable Units, Facility (D4 and ISS), and End States and Final Closure

December 14, 2006

Washington Closure Hanford (WCH) Building, 2620 Fermi Drive, Richland, Washington

ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) - The next meeting will be held January 11, 2007 at Washington Closure Hanford (WCH) Office Building, 2620 Fermi Avenue, Room C209.
- Quorum - A quorum of Tri-Party project managers was present to conduct the business of the Unit Managers Meeting.
- Attendees/Delegations - Attachment A is the list of attendees. Attachment B documents any delegations received from the regulatory agencies; none were received.
- Approval of Minutes - The approval and signing of the November 9, 2006 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 - Status of action items was covered and updated (Attachment C).
- Agenda: Attachment D is an agenda for the meeting.

EXECUTIVE SESSION (Tri-Parties Only)

- 1325-N Certification of Closure

No issues were identified, and no actions were documented.

Agreement: Ecology and RL agreed that RL previously submitted a certification of closure for this unit.

- Analogous Site Data Use for Waste Site Closeout

No issues were identified, and no agreements were documented.

Action 1: RL to evaluate whether it endorses use of analogous sites for site closeout (proposed by WCH), and communicate its opinion to Ecology and EPA. As a first step, RL will set up a meeting to focus on a current example of a waste site being proposed for closeout using this approach.

Action 2: RL to meet with EPA and Ecology on what systems or processes are in place to track remedial action costs for waste site closeout. Remedial Action Closeout Reports will capture this information but EPA and Ecology want to hear an update since the development of the 300-FF-1 Remedial Action Report (DOE/RL-2004-74, Rev. 0).

- Ecological Reference Sites

No agreements or actions were documented.

Issue: Ecology hired a private consultant to evaluate current ecological reference sites versus EPA guidance. This review includes both the 200 Area and the River Corridor Workplan and Risk Assessment Workplan. A presentation by the consultant included discussions of interview comments by the Hanford

Natural Resource Trustees (Trustees). Ecology's consultant is preparing a report that will focus only on the adequacy of the ecological reference sites, not on the Trustee comments.

100 AREA GROUNDWATER

Attachment 1 provides a status or information. No issues were identified, and no agreements were documented.

Action: RL (John Morse) will provide EPA with "DAVE" access.

300 AREA GROUNDWATER

Attachment 1 provides a status or information. No issues were identified.

Agreement 1: Attachment 2 documents EPA approval of the "Waste Management Plan for the 300-FF-5 Operable Unit: Revised List of Sampling Sites (Appendix A List)."

Agreement 2: Attachment 3 documents EPA approval of the "Sampling and Analysis Instructions Limited Groundwater Characterization Beneath the 618-2 Burial Ground, 300-FF-5 Operable Unit, Fiscal Year 2007."

GROUNDWATER/SOURCE OPERABLE UNIT INTEGRATION

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

100 AREA FIELD REMEDIATION CLOSURE

Attachments 4, 5, 6, 7, 8, and 9 provide a status or information for various projects in the 100 Area field remediation project. Attachment 4 covers sampling and design. Attachment 5 covers 100-B/C, and Attachment 6 covers agreements for 100-B/C. Attachment 7 covers 118-K-1. Attachment 8 covers 100-D. Attachment 9 covers 100-F. No issues were identified.

Agreement 1: Attachment 6 documents approval from EPA on the backfill concurrence for waste sites 100-C-9:1(South) Southern Process Sewer Line, and 100-C-9:2 Sanitary Sewer Lines at the 100-B/C Area.

Agreement 2: At the 100-N area pertaining to the 1301-N fencing, Ecology provided the following agreement language, "Based on discussions on December 7, 2006 between DOE and Ecology, there was agreement reached that sections of the 1301-N TSD fencing could be removed temporarily. The purpose of this agreement is to allow access for demolition and remediation of several structures including: 1310-N (Golf Ball), 1322-N/NA/NB, and 1312-N. It was also agreed, that no permit modifications would be required for moving the fencing."

Action: RL (Chris Smith) will provide EPA with the spent nuclear fuel disposition schedule for 100-B/C.

300 AREA FIELD REMEDIATION CLOSURE

Attachments 10 and 11 provide a status or information. Attachment 10 covers 300-FF-2, while Attachment 11 covers 618-10/11. No issues were identified, and no actions were documented.

Agreement: Attachment 12 documents approval from EPA on the "Air Monitoring Plan Addendum for the 300-FF-2 Waste Sites Remedial Action," dated October 2006.

END STATES AND FINAL CLOSURE PROJECT

Attachment 13 provides a status or information. No issues were identified, no agreements were documented, and no actions were documented.

DEACTIVATION, DECONTAMINATION, DECOMMISSION, DEMOLITION (D4)

Attachments 14 and 15 provide a status or information. Attachment 14 covers the 100 Area, while Attachment 15 covers the 300 Area. No issues were identified.

Action: RL shall provide EPA with status on the 324/327 building demolition strategy.

Agreement: Attachment 16 documents approval from EPA on the National Priorities List Agreement/Change Control Form, Number 139. Approval is to allow D4 activities of the facilities addressed under *Action Memorandum #3 for the 300 Area* to follow the requirements outlined in the *Removal Action Work Plan #1 for the 300 Area*, Rev. 1, until the removal action work plan revision has been issued and approved by RL and EPA.

INTERIM SAFE STORAGE (ISS)

Attachment 17 provides a status or information. No issues were identified, no agreements were documented, and no actions were documented.

SPECIAL TOPICS

- TPA Change Number P-11-06-01 for 200 Area Operable Units

Issue: RL (Kevin Bazzell) asked about the applicability of changes proposed in this change package governing the 200 Area Remedial Design Reports/Remedial Action Work Plans (RDR/RAWPs), and whether those changes were expected in the 100 and 300 Area RDR/RAWPs. Mr. Bazzell was not aware of any specific language specifying the change only applied to the 200 Area, and he was not aware of these changes. EPA (Dennis Faulk) believed these changes were not going to affect the 100 and 300 Area RDR/RAWPs. Because Ecology was not in attendance during this topic, an Ecology agreement will have to be documented in a future meeting.

- Revision to 100 Area RDR/RAWP

Attachment 18 outlined key areas of revision for the subject document. EPA looked forward to working the items.

Attachment A

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Attachment B

Attachment C

100/300 Area UMM
Action List

Open (O)/Closed (X	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-003	RL	K. Bazzell	Field Remediation Closure	EPA and Ecology request DOE prepare a schedule for cleanup of the 200-CW-3 waste sites listed in the 100 Area Remaining Site Record of Decision.	Open: 7/13/06; Action: Closed 12/14/2006.
X	100-004	WC	L. Dittmer	Sample Design and Cleanup Verification	Present an errata sheet to provide consistent tritium cleanup levels between the 100 Area Burial Ground SAP and the 100 Area SAP.	Open: 7/31/06; Action: Closed 11/9/2006.
X	100-005	RL	K. Bazzell	General RCCC	EPA and Ecology request a meeting with the DOE person who can approve/disapprove language in the 100 Area Remedial Design Report. (Action associated with a proposed revision to the RDR to include descriptive language on ecorisk screening.)	Open: 7/13/06; Action: Closed 11/9/2006.
O	100-005B	EPA	L. Gadbois	General RCCC	Revise the 100 Area RDR to include more specific language on the methodology and process for conducting ecological risk screening during closeout process.	Open: 9/14/06; Action: Agreement to be sought at 1/11/2007 UMM.
X	100-006	RL	J. Zeisloft	100-K Field Remediation	RL to provide EPA and Ecology a copy of the NorthWind Characterization Report for 118-K-1.	Open: 7/13/06; Action: Completed 10/26/06
X	100-007	RL	J. Zeisloft	100-K Field Remediation	RL provide EPA and Ecology the status of the AMEC Report on 118-K-1.	Open: 7/13/06; Closed: 8/10/06 Action did not occur
X	100-008	RL	K. Bazzell	Field Remediation	Provide WCH direction to evaluate other, existing, options for handling bottles containing liquids that are unearthed during remedial actions. Evaluate what is being done at other sites (Brookhaven; Sandia; DOE Lessons Learned website); evaluate how HAZM	Open: 9/14/06; Action: Competed 10/2/06

100/300 Area UMM
Action List

	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-009	RL	R. Guercia	100-K D4	Send a copy of a building completion report (a quarterly report prepared to satisfy the DOE Order to take a facility "off the books.") as an alternate format of retrievable documentation.	Open: 9/14/06; Action: Complete 9/15/06
X	300-002	PN	B. Peterson M. Hartman	300-FF-5 Groundwater	Invite Jacqui Shea (Ecology), Alica Huckaby (Ecology), Alicia Boyd (EPA) to the September 300 Area aquifer tube sampling event.	Open: 7/13/06; Action: Completed 9/5/06
X	100-110	ECY	J. Price	100-H	John Price (Ecology) will send Kent Westover (RL) an email afte looking at the information on the 116-H-4 table provided at the 10/12/06 UMM.	Open: 10/12/06; Action: Completed 10/13/06
O	100-111	RL	K. Westover	RCC General	RL shall propose a process for resolving sampling approaches where Ecology and RL differ, and multiple attempts at a technical level are exchanged without resolution.	Open: 10/12/06; Action: RL is drafting a process.
O	100-112	RL	B. Charbone au	100-HR-3	RL will respond to Ecology's email request on the data and analysis request regarding the 100-HR-3 system.	Open: 10/12/06; Action: Meeting will be scheduled.
X	100-113	ECY	J. Price	100-HR-3	John Price will respond to RL's request to submit an annual report for the ISRM system versus a quarterly report. However, monthly data will still be sent to Ecology.	Open: 10/12/06; Action: Ecology approval documented in minutes. Completed 11/9/2006.
X	100-114	RL	B. Charbone au	Unknown	RL will send Ecology the schedule for the EM-22 Treatability Test Report	Open: 10/12/06; Action: Schedule entered into minutes. Completed 11/9/2006.

100/300 Area UMM
Action List

X	100-115	RL	B. Charbonneau	100-D	RL will send Ecology the plans/actions for the 182-D Reservoir.	Open: 10/12/06; actions documented in minutes. Completed 11/9/2006.
X	100-116	RL	J. Zeisloft	100-D	RL and Ecology shall talk about the liquid removal from the 100-D-56 pipe.	Open: 10/12/06; Action: Completed 11/9/2006
X	100-117	ECY	J. Price	100-N	Ecology shall review the revegetation proposal for the 116-N-1 site and provide feedback.	Open: 10/12/06; Action: Proposal approved in minutes. Completed 11/9/2006.
X	100-118	ECY	J. Price	100-D	Ecology shall review the 100-D-56 chromium treatment plan	Open: 10/12/06; Action: Ecology submitted comments. Completed 11/9/2006.
X	300-003	RL	C. Smith	300-FF-2	RI shall provide EPA with the contamination control measures to move the MO-905 trailer within the onsite area.	Open: 10/12/06; Action: Completed 10/18/2006
O	100-119	RL	J. Morse	100-HR-3	RL (John Morse) will set up a meeting with Ecology (John Price) on overall long-term picture for 100-HR-3.	Open: 11/9/06; Action:RL to schedule meeting in Jan. 2007
O	100-120	RL	J. Morse	100-HR-3	RL (John Morse) will provide Ecology (Mandy Jones) with the 100-D well installation schdule, as well as the EM-22 Treatability Test well installation plans.	Open: 11/9/06; Action:Remains open.

100/300 Area UMM
Action List

X	100-121	RL	J. Morse	100-FR-3	RL (John Morse) will provide EPA (Rod Lobos) with the Contaminates of Concern (COCs) plot for each well in 100-FR-3, including a list of wells sampled in October 2006 and those scheduled to be sampled in November 2006.	Open: 11/9/06; Action:Closed 12/14/2006
O	100-122	RL	J. Zeisloft	100-D	RL (Jamie Zeisloft) will set up a meeting with Ecology on the holistic 100-D characterization approach.	Open: 11/9/06; Action:Remains open.
X	100-123	RL	J. Zeisloft	100-D	RL (Jamie Zeisloft) will provide Ecology (Mandy Jones) with the overall 100-D project remediation schedule.	Open: 11/9/06; Action:Closed 12/14/2006
X	300-004	RL	C. Smith	618-10/11	RL (Chris Smith) will set up a meeting with EPA to discuss the M-16-67 milestone for 618-10/11 to ensure there are no issues with the design solution and completing the milestone.	Open: 11/9/06; Action:Closed 12/14/2006
O	100-124	RL	K. Westover	General RCCC	RL to evaluate whether it endorses use of analogous sites for site closeout (proposed by WCH), and communicate its opinion to Ecology and EPA. As a first step, RL will set up a meeting to focus on a current example of a waste site being proposed for closeout using this approach.	Open:12/14/06; Action:

100/300 Area UMM
Action List

O	100-125	RL	K. Bazzell	General RCCC	RL to meet with EPA and Ecology on what systems or processes are in place to track remedial action costs for waste site closeout. Remedial Action Closeout Reports will capture this information but EPA and Ecology want to hear an update since the development of the 300-FF-1 Remedial Action Report (DOE/RL-2004-74, Rev. 0).	Open:12/14/06; Action:
O	100-126	RL	J.Morse	General RCCC	RL (John Morse) will provide EPA with "DAVE" access.	Open:12/14/06; Action:
O	100-127	RL	C. Smith	100-B/C	RL (Chris Smith) will provide EPA with the spent nuclear fuel disposition schedule for 100-B/C.	Open:12/14/06; Action:
O	300-005	RL	R. Guercia	300 Area D4	RL shall provide EPA with status on the 324/327 building demolition strategy.	Open:12/14/06; Action:

Attachment D

100/300 Area Unit Manager Meeting
December 14, 2006
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99352
Room A110
1:00-4:30 p.m.

1:00 - 1:50 p.m. **Executive Session (Tri-Parties Only):**

- 1325-N TSD closure (informational discussion): RL submitted a request for closure on the 1325-N TSD. This unit will be included in the renewal of the Site-wide RCRA permit. The 1325-N chapter will include a requirement for a comprehensive groundwater monitoring plan
- RL requested use of an analogous sites approach and Ecology's 11/30 email asked 3 questions of RL: RL provide a status/response).
- Reference sites (informational discussion): Ecology to explain scope of their consultant's report on ecological reference sites, compared to consultant's presentation that included interviews w/ Natural Resource Trustees

2:00 p.m. - 2:20 p.m. **Administrative:**

- Approval and signing of previous meeting minutes (November 2006)
- Update to Action Items
- Next UMM (01/11/2007)
- New Project Actions, Commitments, Agreements

2:20 - 4: 30 p.m. **Open Session: Project Updates:**

- 100/300 Area Groundwater
- 100/300 Area Field Remediation and Closure (FR)
  - Sampling and FR Design (Lorna Dittmer/Rich Carlson)
  - 100-B/C (Dean Strom)
  - 118-K-1 (Dale Obenauer)
  - 100-D (Jon Fancher)
  - 100-N (Scott Parnell)
  - 100-F (Mark Buckmaster)
  - 300-FF-2 (John Darby)
    - Approval of air monitoring plan addendum
  - 618-10/11 (Scott Parnell)
- End States and Final Closure
- D4 (100/300 Area)
- Interim Safe Storage (ISS)
- Special Topics
  - 100 Area RDR Revision Topics (identify key areas)

Attachment 1

100/300 Areas Unit Managers Meeting for December 14, 2006

100-NR-2 Groundwater OU - Russ Fabre

Apatite Pilot Test #1 (199-N-138)

- Performance assessment sampling is ongoing, latest data provided in Figure 1. Locations shown in Figure 3.
- There has been a decrease of Strontium-90 concentration in aquifer tube (APT-1, 40 ft from N-138) during last sampling event.
- Strontium-90 sequestration performance monitoring will continue bi-monthly.

Apatite Pilot Test #2 (199-N-137)

- A 60,000 gal. apatite solution injection was performed on September 27, 2006.
- Laboratory analyses to assess injection performance are ongoing; Available Sr-90 performance data is provided in Figure 2. Levels have continued to decrease from the post injection levels and have generally reached baseline levels.

Figure 1. Sr-89/90 performance assessment monitoring through September, 2006 (~3 mo) for Pilot Test #1.

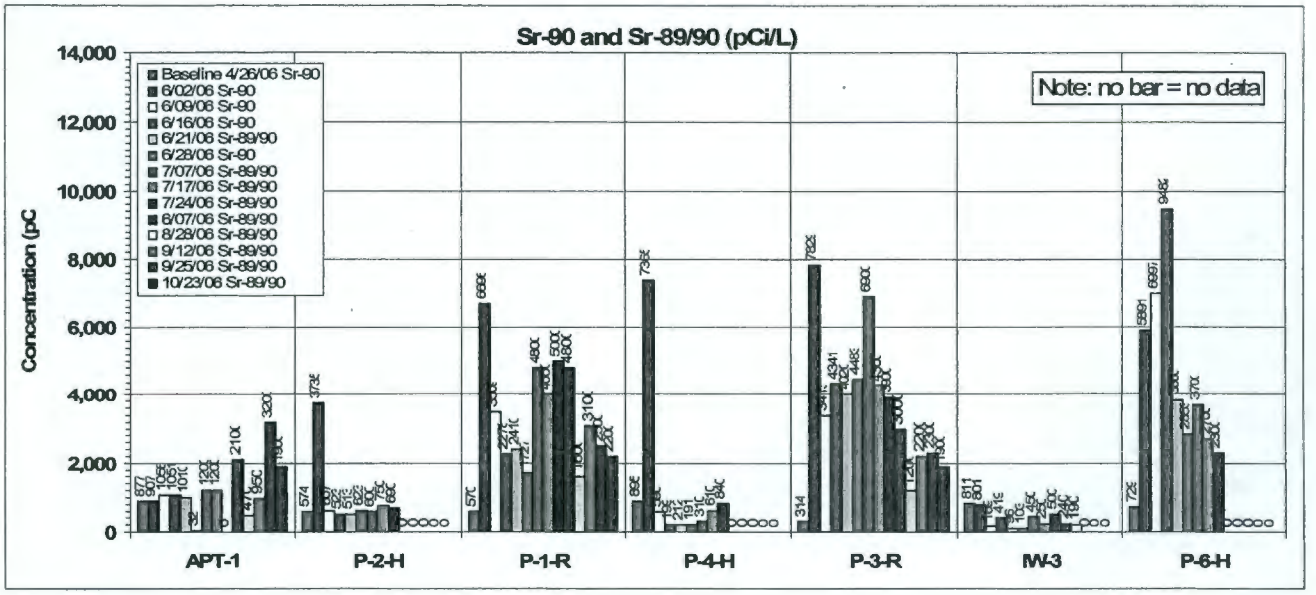


Figure 2. Sr-90 performance assessment monitoring for Pilot Test #2: baseline and first post-injection samples.

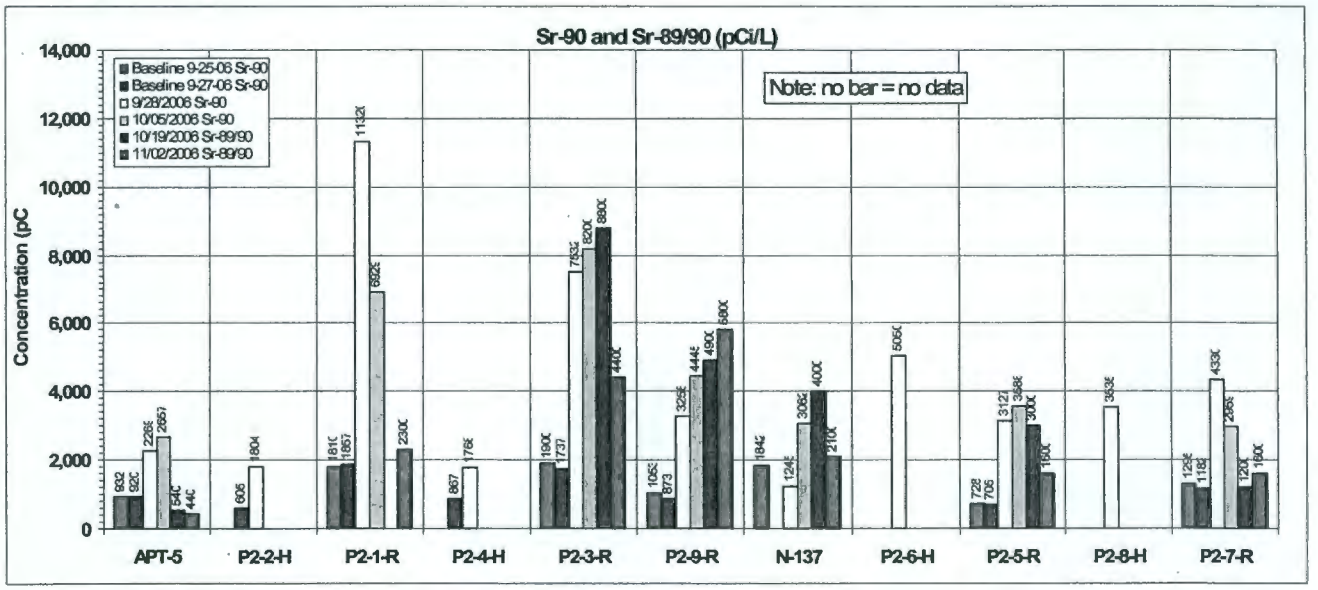
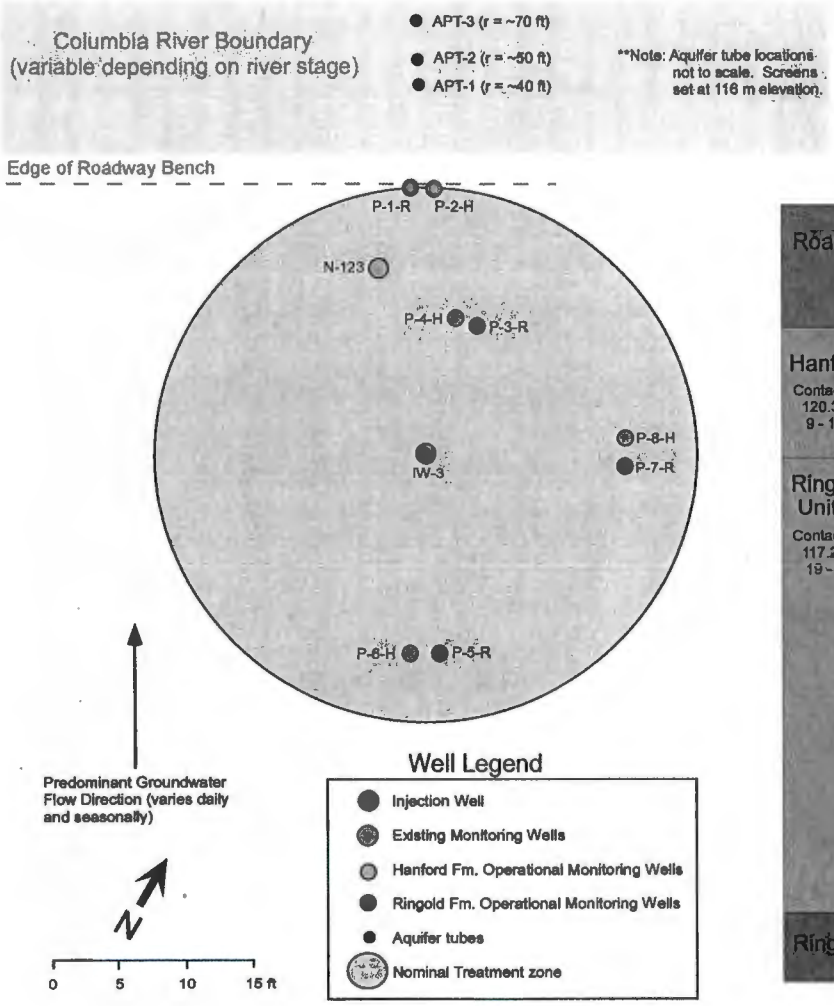
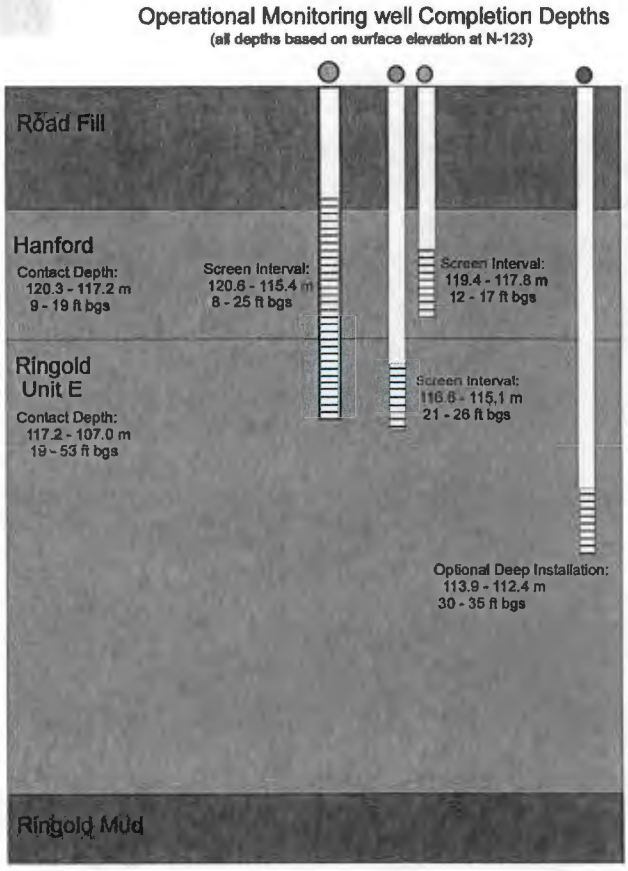


Figure 3. Well layout for Pilot Test Site #1.


Columbia River Boundary
(variable depending on river stage)
APT-3 (r = ~70 ft)
APT-2 (r = ~50 ft)
APT-1 (r = ~40 ft)
**Note: Aquifer tube locations not to scale. Screens set at 116 m elevation.
Edge of Roadway Bench
P-1-R
P-2-H
N-123
P-4-H
P-3-R
P-8-H
IW-3
P-7-R
P-6-H
P-5-R
Predominant Groundwater Flow Direction (varies daily and seasonally)
0
5
10
15 ft
Well Legend
Injection Well
Existing Monitoring Wells
Hanford Fm. Operational Monitoring Wells
Ringold Fm. Operational Monitoring Wells
Aquifer tubes
Nominal Treatment zone


Operational Monitoring well Completion Depths
(all depths based on surface elevation at N-123)
Road Fill
Hanford
Contact Depth:
120.3 - 117.2 m
9 - 19 ft bgs
Screen Interval:
120.6 - 115.4 m
8 - 25 ft bgs
Screen Interval:
119.4 - 117.8 m
12 - 17 ft bgs
Ringold
Unit E
Contact Depth:
117.2 - 107.0 m
19 - 53 ft bgs
Screen Interval:
116.6 - 115.1 m
21 - 26 ft bgs
Optional Deep Installation:
113.9 - 112.4 m
30 - 35 ft bgs
Ringold Mud

100-KR-4 Groundwater OU - Ron Jackson

- Remediation Treatment Status
  - For the period of November 1-30, 2006:
    - System operated normally. Extraction well 199-K-114 went down on 11/23 due to low flow and could not be restarted as a result of freezing conditions.
    - Total average flow through the system was approximately 275 gpm.
    - Average influent hexavalent chromium concentration was 0.053 mg/L.
  - KR-4 Expansion
    - Continue on the construction of the treatment building and two transfer buildings. Three treatment skids are currently being fabricated.
- KW Groundwater Remediation
  - Working on the tie in two the 199-K-35 injection wells. The second injection well will be drilled in January, 2007. The draft Revision 1 of the RDR/RAWP was reviewed by EPA.

- Calcium Polysulfide Treatability Test
  - Hexavalent chromium remains below 10 ppb in the injection well; concentrations in the extraction well are approximately 30 ppb.

100-KR-4: K-Basins Monitoring Task—Bob Peterson (PNNL)

- Leak Detection Monitoring:
  - Most recent results were reported during the November 2006 UMM; results for samples collected in late October and November 2006 are not yet available.
- Monitoring Well Network:
  - Monthly monitoring continues at three wells close to the KE Basin, 199-K-27, 199-K-29, and 199-K-109A, with the most recent sampling on December 1.
  - Stable conditions at 199-K-29, and the well's position to the "side" of the area most likely to be impacted by leakage, suggests that the frequency at that well could be reduced back to quarterly.
  - Additional monitoring wells downgradient from the KE reactor are being installed during December 2006 (contact: Chris Wright, Fluor Hanford, Inc.).
- Reporting:
  - The quarterly K-Basins report for July, August, and September 2006 is complete and is being distributed as an adobe pdf file via email this week. There are no significant changes to conditions or interpretations compared to the previous report.
  - The draft K-Basins subsection of the FY 2006 annual groundwater report is complete and undergoing internal review at PNNL.

100-HR-3 Groundwater OU - Ron Jackson

- Remediation Treatment Status
  - For the period November 1-30, 2006:
    - System operated normally.
    - Total average flow through the system was approximately 164 gpm.

- Average influent hexavalent chromium concentration for H Area was approximately less than 0.019 mg/L.
- Average influent hexavalent chromium concentration for D Area was approximately 0.166 mg/L.

- DR-5 Treatment Status
  - For the period November 1-30, 2006:
    - System operated normally.
    - Total average flow was approximately 35 gpm.
    - The average influent hexavalent chromium concentration was 0.905 mg/L.

- Summary of ISRM Status
  - Collected and analyzed samples from all ISRM barrier wells in November. Chromium concentrations were comparable to those measured last November.

- EM-22 Technology Developments
  - The contract for injecting micron-size iron into selected ISRM boreholes was awarded on December 5th to MSE-Technology Applications. The project kickoff meeting is scheduled for December 14th.
  - The contract for the electrocoagulation pilot test in the 100-D Area was awarded November 29, 2006 to AVENTech. The kickoff meeting was held on December 11, 2006. Ecology comment due week of December 25, 2006.
  - The Field Investigation Plan for the chromium source investigation is in review. Drilling is anticipated to begin shortly after the first of the year.

300-FF-5 Operable Unit—Bob Peterson (PNNL) and Ron Smith (PNNL)

- Operations and Maintenance Plan Requirements:
  - Entire Operable Unit: Completed draft of 300-FF-5 section of the FY 2006 annual groundwater report, which is currently undergoing internal review at PNNL.
  - Recent sampling events and results: [No change from November unit manager meeting briefing]
  - RCRA Integration, 300 Area Process Trenches: [No new information to report]
- Phase III Feasibility Study and Limited Field Investigation:
  - Draft report describing the results of the LFI drilling program is undergoing internal review at PNNL.
- Other Tasks:
  - Drilling associated with the polyphosphate treatability test is complete, and preparations are underway to start the tracer test, which is being used to determine the hydraulic characteristics of the test injection area.
  - Plutonium Investigation in the groundwater beneath 618-2 burial ground will start December 19.
  - Planning for characterization drilling associated with the discovery of volatile organic compounds during the LFI drilling has begun. One new borehole is to be drilled near 399-3-20, which is the characterization borehole where relatively high TCE concentrations (630 ug/L) were discovered in a sandy unit of the Ringold Formation, at a depth well below the uppermost hydrologic unit

100-BC-5 and 100-FR-3 Operable Units—Mary Hartman (PNNL)

- 100-BC-5: Nothing new to report. Wells are scheduled for sampling in January 2007.
- 100-FR-3: All but 3 wells scheduled for FY 2007 sampling have been completed. Maintenance is being performed so the last 3 wells can be sampled.
  Metals and anions data from four of the wells sampled earliest have been loaded and are consistent with previous trends.

Attachment 2

(2)

DOE/RL-2000-56
Rev. 1
OU: 300-FF-5
TSD: N/A
ERA: N/A

CONCURRENCE PAGE

Title: Waste Management Plan for the 300-FF-5 Operable Unit: Revised List of Sampling Sites (Appendix A List)

Concurrence:

K. M. Thompson
U.S. Department of Energy, Richland Operations Office

John Morse, for
Signature

11/09/06
Date

A. L. Boyd
U.S. Environmental Protection Agency

A. L. Boyd
Signature

12-4-2006
Date

Attachment:

Page 5 and Page 6 replacement pages for DOE/RL-2000-56 (updated November 9, 2006)

APPENDIX A: 300-FF-5 OPERABLE UNIT MONITORING SITES (updated November 9, 2006)

radiologically released or waste that has not contacted potentially contaminated materials may be disposed offsite to a solid waste landfill, to an onsite demolition landfill in the case of demolition debris such as concrete, or may be recycled, as appropriate.

5.0 PACKAGING AND LABELING

Materials requiring collection will be placed in containers appropriate for the material and the receiving facility. Drums may be used for some materials (e.g., drill cuttings). However, packaging for large or irregular-shaped waste (e.g., well casing) may include containment other than drums. The packaging shall provide insurance against migration of contaminants and protection from environmental degradation. The packaging may include, but is not limited to, plastic wrap.

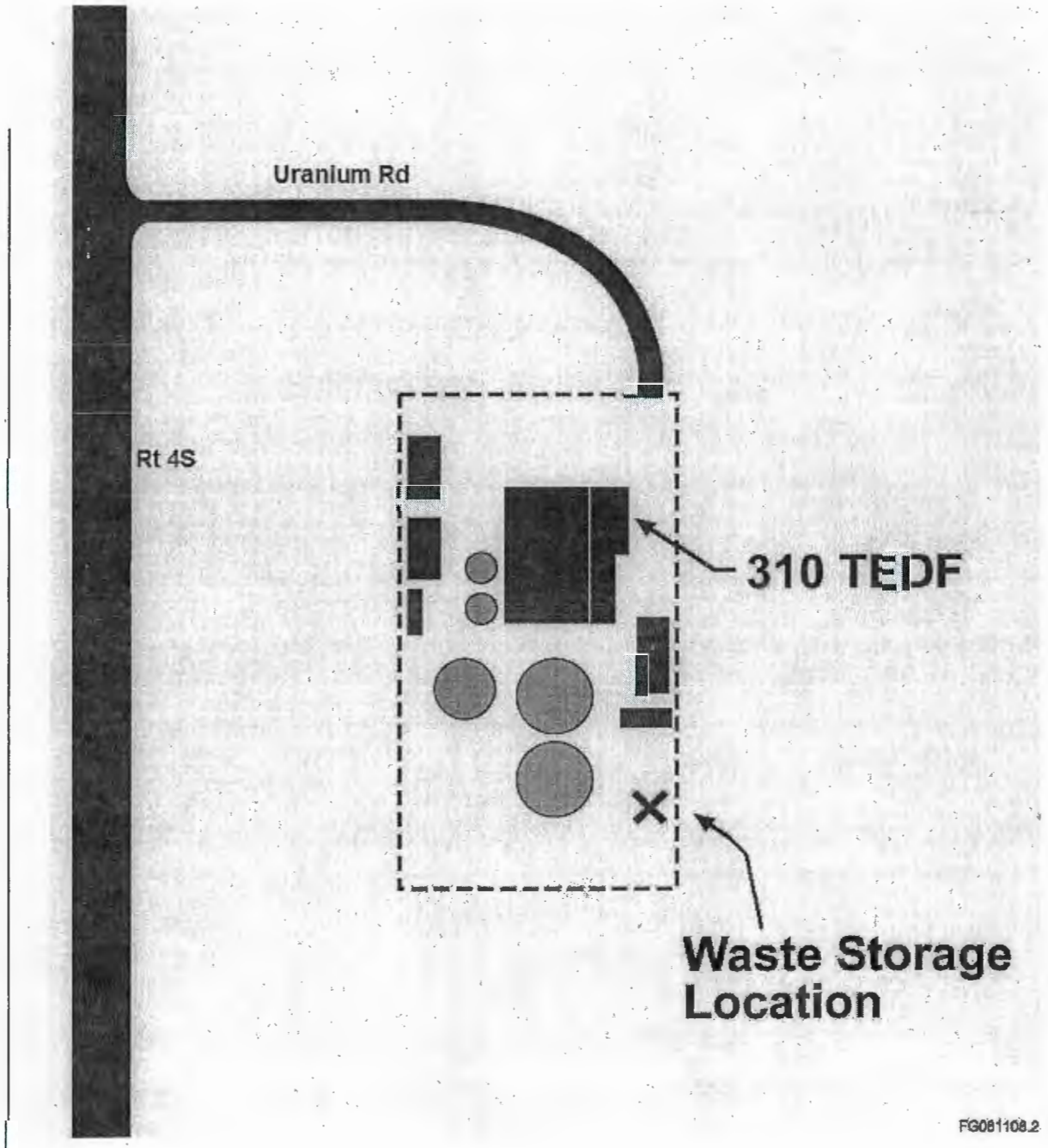
Low-volume miscellaneous materials associated with activities such as groundwater well sampling, water level measurements, and groundwater well maintenance may be bagged, taped, and labeled with the well number at the well head. The bagged material will be transported in a protective manner (i.e., containment of the material is maintained) with the workers while proceeding from well to well in the operable unit. Upon arrival at the storage location, the materials will be placed in an accumulation drum and managed as waste. The material may also be taken directly to ERDF for disposal without storage, if appropriate.

Packaging and labeling during storage and transportation must meet WAC 173-303 and U.S. Department of Transportation requirements, as appropriate. The containers will be labeled as containing investigation-derived waste (IDW) or remediation waste, as appropriate. Packaging exceptions to U.S. Department of Transportation requirements that are documented and provide an equivalent degree of safety during transportation may be used for onsite waste shipments. Containers will be labeled and marked appropriately to match the designation established for each waste stream. The containers will be sealed and shipped to the identified disposal facility.

6.0 STORAGE/TRANSPORTATION

The amount of waste stored at the site should be kept to a minimum. Full containers should be prepared for disposal as quickly as economically feasible. Any designated dangerous waste will be stored in a temporary storage area meeting the substantive requirements of WAC 173-303-630 and will be inspected weekly. The 300-FF-5 Operable Unit waste will be stored inside the 300 Area Treated Effluent Disposal Facility fence near the southeast corner of the facility (Figure 1). Some wastes (e.g., drill cuttings) may be temporarily accumulated near the point of generation.

Figure 1. 300 Area Waste Storage Location.



APPENDIX A
300-FF-5 OPERABLE UNIT MONITORING SITES
(Shading indicates current change)

300-FF-5 Sub-Region	Well ID or Site ID[a]	Well or Site Name	Site Type
300 Area	A5018	399-1-1	Well
300 Area	A5035	399-1-2	Well
300 Area	A5036	399-1-3	Well
300 Area	A5037	399-1-4	Well
300 Area	A5039	399-1-6	Well
300 Area	A5040	399-1-7	Well
300 Area	A5041	399-1-8	Well
300 Area	A5042	399-1-9	Well
300 Area	A5411	399-1-10A	Well
300 Area	A8064	399-1-10B	Well
300 Area	A5020	399-1-11	Well
300 Area	A5021	399-1-12	Well
300 Area	A5412	399-1-13A	Well
300 Area	A8065	399-1-13B	Well
300 Area	A5413	399-1-14A	Well
300 Area	A8066	399-1-14B	Well
300 Area	A5024	399-1-15	Well
300 Area	A5025	399-1-16A	Well
300 Area	A5026	399-1-16B	Well
300 Area	A5027	399-1-16C	Well
300 Area	A5028	399-1-17A	Well
300 Area	A5029	399-1-17B	Well
300 Area	A5030	399-1-17C	Well
300 Area	A5031	399-1-18A	Well
300 Area	A5032	399-1-18B	Well
300 Area	A5033	399-1-18C	Well
300 Area	A8068	399-1-20	Well
300 Area	A5414	399-1-21A	Well
300 Area	A5415	399-1-21B	Well
300Area	C5000	399-1-23	Well (2006)
300 Area	A5043	399-2-1	Well
300 Area	A5044	399-2-2	Well
300 Area	A5045	399-2-3	Well

300-FF-5 Sub-Region	Well ID or Site ID[a]	Well or Site Name	Site Type
300 Area	A5046	399-3-1	Well
300 Area	A8071	399-3-2	Well
300 Area	A8072	399-3-3	Well
300 Area	A5049	399-3-6	Well
300 Area	A8076	399-3-8	Well
300 Area	A5051	399-3-9	Well
300 Area	A5047	399-3-10	Well
300 Area	A8077	399-3-11	Well
300 Area	A5048	399-3-12	Well
300 Area	C4999	399-3-18	Well (2006)
300 Area	C5001	399-3-19	Well (2006)
300 Area	C5002	399-3-20	Well (2006)
300 Area	A5052	399-4-1	Well
300 Area	A5055	399-4-7	Well
300 Area	A5056	399-4-9	Well
300 Area	A5053	399-4-10	Well
300 Area	A5054	399-4-11	Well
300 Area	A8089	399-4-12	Well
300 Area	A5057	399-5-1	Well
300 Area	A8091	399-5-2	Well
300 Area	A8094	399-5-4B	Well
300 Area	A5058	399-6-1	Well
300 Area	A8095	399-6-2	Well
300 Area	A5059	399-8-1	Well
300 Area	A5060	399-8-2	Well
300 Area	A5061	399-8-3	Well
300 Area	A8096	399-8-4	Well
300 Area	A5416	399-8-5A	Well
300 Area	A5417	399-8-5B	Well
300 Area	A5418	399-8-5C	Well
300 Area	C5351	399-1-24	Well
300 Area	C5352	399-1-25	Well
300 Area	C5353	399-1-26	Well
300 Area	C5354	399-1-27	Well
300 Area	C5355	399-1-28	Well
300 Area	C5356	399-1-29	Well

300-FF-5 Sub-Region	Well ID or Site ID[a]	Well or Site Name	Site Type
300 Area	C5357	399-1-30	Well
300 Area	C5358	399-1-31	Well
300 Area	C5359	399-1-32	Well
300 Area	C4855	699-S20-E10	Well (new 2005)
300 Area	A5422	699-S22-E9A	Well
300 Area	A5423	699-S22-E9B	Well
300 Area	A5424	699-S22-E9C	Well
300 Area	A5425	699-S27-E9A	Well
300 Area	A5426	699-S27-E9B	Well
300 Area	A5427	699-S27-E9C	Well
300 Area	A5371	699-S27-E14	Well
300 Area	A5429	699-S29-E16A	Well
300 Area	A5430	699-S29-E16B	Well
300 Area	A5431	699-S29-E16C	Well
300 Area	A9209	699-S30-E14	Well
300 Area	A5377	699-S30-E15A	Well
300 Area	A9210	699-S30-E15B	Well
300 Area	VOC-1[1]	---	Well
300 Area	VOC-2[1]	---	Well
300 Area	VOC-3[1]	---	Well
300 Area	VOC-4[1]	---	Well
618-2	C5387	NA[2]	Well
618-2	C5388	NA[2]	Well
618-2	C5389	NA[2]	Well
316-4/618-10	A9152	699-S6-E4A	Well
316-4/618-10	A9153	699-S6-E4B	Well
316-4/618-10	A9154	699-S6-E4C	Well
316-4/618-10	A9788	699-S6-E4CP	Well
316-4/618-10	B2831	699-S6-E4CS	Well
316-4/618-10	A5406	699-S6-E4D	Well
316-4/618-10	A9155	699-S6-E4E	Well
316-4/618-10	A9156	699-S6-E4F	Well
316-4/618-10	A9157	699-S6-E4G	Well
316-4/618-10	A9158	699-S6-E4H	Well
316-4/618-10	A9159	699-S6-E4J	Well
316-4/618-10	C4072	699-S6-E4K	Well

300-FF-5 Sub-Region	Well ID or Site ID[(a)]	Well or Site Name	Site Type
316-4/618-10	C4073	699-S6-E4L	Well
316-4/618-10	A9163	699-S6-E16A	Well
316-4/618-10	A9164	699-S6-E16B	Well
316-4/618-10	A9181	699-S11-E12A	Well
618-11	A8124	699-2-E14	Well
618-11	A8246	699-12-2A	Well
618-11	C3253	699-12-2C	Well
618-11	C3256	699-13-0A	Well
618-11	A8260	699-13-1A	Well
618-11	A8261	699-13-1B	Well
618-11	A8262	699-13-1C	Well
618-11	C3251	699-13-1D	Well
618-11	C3798	699-13-1E	Well
618-11	C3254	699-13-2D	Well
618-11	B2540	699-13-3A	Well
618-11	A5070	699-14-E6T	Well
618-11	A8318	699-15-15B	Well
618-11	A8338	699-15-E13	Well
618-11	A5085	699-20-E12	Well
618-11	C3071	ENW-MW1	Well
618-11	C3072	ENW-MW2	Well
618-11	C3073	ENW-MW3	Well
618-11	C3074	ENW-MW4	Well
618-11	C3075	ENW-MW5	Well
618-11	C3076	ENW-MW6	Well
618-11	C3077	ENW-MW7	Well
618-11	C3078	ENW-MW8	Well
618-11	C3079	ENW-MW9	Well
618-11	C3080	ENW-MW31	Well
618-11	C3081	ENW-MW32	Well
300 Area	C4347	AT-3-1-S	Aquifer tube
300 Area	C4346	AT-3-1-M	Aquifer tube
300 Area	C4348	AT-3-1-D(2)	Aquifer tube
300 Area	C4345	AT-3-1-D(1)	Aquifer tube
300 Area	C4350	AT-3-2-S	Aquifer tube
300 Area	C4349	AT-3-2-M	Aquifer tube

300-FF-5 Sub-Region	Well ID or Site ID[a]	Well or Site Name	Site Type
300 Area	C4642	300SPR9A-19cm	Aquifer tube
300 Area	C4643	300SPR9A-86cm	Aquifer tube
300 Area	C4644	300SPR9A-142cm	Aquifer tube
300 Area	C4741	300-3-3C-409cm	Aquifer tube
300 Area	C4742	300-3-3C-589cm	Aquifer tube
300 Area	C4646	300-3-3B-376cm	Aquifer tube
300 Area	C4740	300-3-3B-518cm	Aquifer tube
300 Area	C4690	300-3-3A-124cm	Aquifer tube
300 Area	C4645	300-3-3A-410cm	Aquifer tube
300 Area	C4739	300-3-3A-579cm	Aquifer tube
300 Area	C4353	AT-3-3-S	Aquifer tube
300 Area	C4352	AT-3-3-M	Aquifer tube
300 Area	C4351	AT-3-3-D	Aquifer tube
300 Area	C4356	AT-3-4-S	Aquifer tube
300 Area	C4355	AT-3-4-M	Aquifer tube
300 Area	C4354	AT-3-4-D	Aquifer tube
300 Area	C4358	AT-3-5-S	Aquifer tube
300 Area	C4357	AT-3-5-M	Aquifer tube
300 Area	C4361	AT-3-6-S	Aquifer tube
300 Area	C4360	AT-3-6-M	Aquifer tube
300 Area	C4359	AT-3-6-D	Aquifer tube
300 Area	C4364	AT-3-7-S	Aquifer tube
300 Area	C4363	AT-3-7-M	Aquifer tube
300 Area	C4362	AT-3-7-D	Aquifer tube
300 Area	C4367	AT-3-8-S	Aquifer tube
300 Area	C4366	AT-3-8-M	Aquifer tube
300 Area	C4365	AT-3-8-D	Aquifer tube
300 Area	S1170[a]	Spr-1	Riverbank spring
300 Area	S1171[a]	Spr-2	Riverbank spring
300 Area	S1172[a]	Spr-3	Riverbank spring
300 Area	S1173[a]	Spr-4	Riverbank spring
300 Area	S1174[a]	41-1	Riverbank spring
300 Area	S1175[a]	Spr-5	Riverbank spring
300 Area	S1176[a]	Spr-6	Riverbank spring
300 Area	S1177[a]	42-1	Riverbank spring
300 Area	S1178[a]	S3-42-2 (Spr-7)	Riverbank spring

300-FF-5 Sub-Region	Well ID or Site ID[a]	Well or Site Name	Site Type
300 Area	S1179[a]	Spr-8	Riverbank spring
300 Area	S1180[a]	S3-DR42-2 (Spr-9)	Riverbank spring
300 Area	S1181[a]	Spr-10	Riverbank spring
300 Area	S1182[a]	Spr-11	Riverbank spring
300 Area	S1183[a]	Spr-12	Riverbank spring
300 Area	S1184[a]	Spr-13	Riverbank spring
300 Area	S1185[a]	Spr-14	Riverbank spring
300 Area	S1186[a]	43-2	Riverbank spring
300 Area	S1187[a]	43-3	Riverbank spring

[1] Placeholder for VOC investigation

[2] No well or site name assigned as these small diameter wells will be decommissioned immediately following groundwater sample collection.

(a) Site ID's for riverbank springs are proposed, i.e., they are not in HEIS databases as of the date of this change.

Attachment 3

CONCURRENCE PAGE

Title: Sampling and Analysis Instructions Limited Groundwater Characterization Beneath the 618-2 Burial Ground, 300-FF-5 Operable Unit, Fiscal Year 2007

Concurrence: K. M. Thompson
U.S. Department of Energy, Richland Operations Office

K. M. Thompson — 11/21/06
Signature — Date

A. L. Boyd
Environmental Protection Agency

A. L. Boyd — 11-27-06
Signature — Date

Attachment 4

(4)

Field Remediation and Sample Design Cleanup Verification for the December 2006 UMM

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
300 AREA			
	RL/Reg review Draft A Closure Document 618-2	**12/7/2006**	12/21/2006
	Air Monitoring Plan for RL/Reg Approval for 618-1 Design	2/26/2007	3/8/2007
	RL/Regulator Design Briefing for 618-1 Design	3/15/2007	3/15/2007
	Design Eng ESD (FY07) RL/Ecology Rev of Draft A	4/11/2007	5/29/2007
	RL/Reg review Draft A Closeout Doc for 331-LSLDF	6/13/2007	7/18/2007
	Air Monitoring Plan for RL/Reg Approval (300 Area Design #2)	7/10/2007	7/23/2007
	RL/Reg Sign Rev 0 Closure Doc for 331-LSLDF	8/6/2007	8/9/2007
	Design Eng ESD (FY07) Approval from EPA/Ecology	8/22/2007	9/26/2007
	RL/Regulator Design Briefing (300 Area Design #2)	8/29/2007	8/29/2007
	RL/Regulator Review Draft A WI for 300-32	12/12/2007	1/14/2008
100-IU-6 UXO			
	Air Monitoring Plan for RL/Reg Approval	6/6/2007	6/19/2007
	RL/Regulator Design Briefing	8/6/2007	8/6/2007
618-10/11			
	RL Review 618-10/11 Design Solution	1/25/2007	4/24/2007
	Cultural/Ecological APE Review for 618-10/11	8/9/2007	9/11/2007
	DOE Review of Cultural Review 618-10/11	9/12/2007	9/27/2007
	RL Transmit 618-10/11 RDR to Regulators Review	10/8/2007	10/18/2007
	RL Transmit 618-10/11 SAP to Regulators Review	10/8/2007	10/18/2007
	RL/Reg Review of 618-10/11 RDR	10/22/2007	12/10/2007
	RL/Reg Review of 618-10/11 SAP	10/22/2007	12/10/2007
100-B/C			
	RL/Reg review of Draft A Closeout Doc for 1607-B-2	12/21/2006	1/31/2007
	RL/Reg review of Draft A Closeout Doc for 100-B-14	12/21/2006	1/31/2007
	RL/Regulator Review Draft A WI for 100-B-21	12/27/2006	1/15/2007
	RL/Regulator Review Draft A WI for 100-B-22	12/27/2006	1/24/2007
	RL/Regulator Review Draft A WI for 100-B-18	1/9/2007	2/5/2007
	RL/Regulator Review Draft A WI for 100-B-19	1/9/2007	2/5/2007
	RL/Regulator Review Draft A WI for 1607-B1	1/15/2007	1/29/2007
	RL/Regulator Review Draft A WI for 126-B-2	1/18/2007	2/1/2007
	RL/Reg review of Draft A Closure Doc for 100-C-9	1/22/2007	2/26/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-21	1/24/2007	1/31/2007
	RL/Regulator Review Draft A WI for 100-B-23	1/24/2007	2/21/2007
	RL/Regulator Review Draft A WI for 116-C-3	1/29/2007	2/1/2007
	RL/Reg Rev of Draft A Closure Doc for 118-C-1	1/31/2007	2/12/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-22	2/5/2007	2/12/2007
	RL/Regulator Sign Rev. 0 WI for 1607-B1	2/7/2007	2/14/2007
	RL/Reg Sign Rev 0 Closure Doc for 1607-B2	2/12/2007	2/14/2007
	RL/Reg Sign Rev 0 Closure Doc for 100-B-14	2/12/2007	2/14/2007
	RL/Regulator Sign Rev. 0 WI for 116-C-3	2/12/2007	2/14/2007
	RL/Regulator Sign Rev. 0 WI for 126-B-2	2/13/2007	2/21/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-18	2/14/2007	2/22/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-19	2/14/2007	2/22/2007
	RL/Reg Rev of Draft A Closure Doc for 118-B-1	2/28/2007	4/3/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-23	3/5/2007	3/12/2007
	RL/Reg Sign Rev 0 Closure Doc for 100-C-9	3/15/2007	3/21/2007
	Air Monitoring Plan for RL/Reg Approval	6/5/2007	6/19/2007
	Cultural/Ecological APE Review for 100-C-7	6/12/2007	7/19/2007
	RL/Reg review of Draft A Closure Doc for 116-C-3	6/20/2007	7/25/2007
	RL/Reg Review Draft A Closure Doc for 1607-B1	7/2/2007	8/15/2007

Field Remediation and Sample Design Cleanup Verification for the December 2006 UMM

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-B/C (Continued)			
	RL/Reg Review Draft A Closure Doc for 126-B-2	7/9/2007	8/21/2007
	RL/Reg Sign Rev 0 Closure Doc for 116-C-3	8/13/2007	8/16/2007
	RL/Reg Sign Rev. 0 Closure Doc for 1607-B1	9/10/2007	9/17/2007
	RL/Regulator Design Briefing for 100-C-7	9/12/2007	9/12/2007
	RL/Reg Sign Rev. 0 Closure Doc for 126-B-2	9/13/2007	9/20/2007
100-H			
	RL/Reg Sign Rev. 0 WI for 128-H-2	11/27/2006	11/30/2006
	RL/Reg Sign Rev. 0 WI for 128-H-3	11/27/2006	11/30/2006
	RL/Regulator Sign Rev. 0 WI for 100-H-28:9	12/21/2006	1/30/2007
	RL/Reg Sign Rev.0 Closure Doc for 100-H-28:10	12/21/2006	1/30/2007
	Review & Approval AMP for 100-H Design	1/16/2007	2/12/2007
	DOE Review Bid for 100-H	3/29/2007	4/27/2007
	Air Monitoring Plan for RL/Reg Approval Remaining Sites Design	7/19/2007	8/2/2007
	RL/Regulator Design Briefing	8/13/2007	8/13/2007
	RL/Reg Review Draft A Closure Doc for 100-H-28:2	8/14/2007	9/27/2007
	RL/Reg Review Draft A Closure Doc for 100-H-28:3	8/20/2007	10/3/2007
	RL/Reg Review Draft A Closure Doc for 100-H-28:4	8/23/2007	10/9/2007
	RL/Reg Review Draft A Closure Doc for 100-H-28:5	8/29/2007	10/15/2007
	RL/Reg Review Draft A Closure Doc for 100-H-3	9/5/2007	10/18/2007
	RL/Reg Review Draft A Closure Doc for 100-H-4	9/11/2007	10/24/2007
	RL/Reg Review Draft A Closure Doc for 100-H-7	9/17/2007	10/30/2007
	RL/Reg Review Draft A Closure Doc for 128-H-2	9/20/2007	11/5/2007
	RL/Reg Review Draft A Closure Doc for 128-H-3	9/26/2007	11/8/2007
	RL/Reg Review Draft A Closure Doc for 1607-H1	10/2/2007	11/14/2007
	RL/Reg Review Draft A Closure Doc for 1607-H3	10/8/2007	11/20/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-H-28:2	10/22/2007	10/29/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-H-28:3	10/25/2007	11/1/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-H-28:4	10/31/2007	11/7/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-H-28:5	11/6/2007	11/13/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-H-3	11/12/2007	11/19/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-H-4	11/15/2007	11/27/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-H-7	11/26/2007	12/3/2007
	RL/Reg Sign Rev. 0 Closure Doc for 128-H-2	11/29/2007	12/6/2007
	RL/Regulator Review Draft A WI for 116-H-9	11/29/2007	12/31/2007
	RL/Reg Sign Rev. 0 Closure Doc for 128-H-3	12/5/2007	12/12/2007
	RL/Reg Sign Rev. 0 Closure Doc for 1607-H1	12/11/2007	12/18/2007
	RL/Reg Sign Rev. 0 Closure Doc for 1607-H3	12/17/2007	12/26/2007
	RL/Regulator Review Draft A WI for 600-152	12/26/2007	1/23/2008
100-N			
	RL/Reg Sign Rev 0 Closure Doc for 116-N-1	11/27/2006	11/30/2006
	ESD - RL/Regulator Review of Draft	1/31/2007	4/23/2007
	RL/Regulator Review Draft A WI for 100-N-28	2/27/2007	3/26/2007
	RL/Regulator Review Draft A WI for 100-N-53	3/6/2007	4/2/2007
	RL/Regulator Review Draft A WI for 100-N-55	3/13/2007	4/9/2007
	RL/Regulator Review Draft A WI for 100-N-65	3/20/2007	4/16/2007
	RL/Regulator Review Draft A WI for 100-N-66	3/27/2007	4/23/2007
	RL/Regulator Review Draft A WI for 100-N-68	4/3/2007	4/30/2007
	RL/Regulator Sign Rev. 0 WI for 100-N-28	4/4/2007	4/11/2007
	RL/Regulator Review Draft A WI for 100-N-79	4/10/2007	5/7/2007
	RL/Regulator Sign Rev. 0 WI for 100-N-53	4/11/2007	4/18/2007
	RL/Reg Review Draft A WI for 100-N-62 Pipes	4/17/2007	5/14/2007

Field Remediation and Sample Design Cleanup Verification for the December 2006 UMM

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-N (Continued)			
	RL/Regulator Review Draft A WI for 120-N-4	4/17/2007	5/14/2007
	RL/Regulator Review Draft A WI for 628-2	4/17/2007	5/14/2007
	RL/Regulator Sign Rev. 0 WI for 100-N-55	4/18/2007	4/25/2007
	ESD - Public Review of Draft B	4/24/2007	6/14/2007
	RL/Regulator Sign Rev. 0 WI for 100-N-65	4/25/2007	5/2/2007
	RL/Regulator Sign Rev. 0 WI for 100-N-66	5/2/2007	5/9/2007
	RL/Regulator Sign Rev. 0 WI for 100-N-68	5/9/2007	5/16/2007
	Air Monitoring Plan for RL/Reg Approval for 100 N Design	5/15/2007	5/29/2007
	RL/Regulator Sign Rev. 0 WI for 100-N-79	5/16/2007	5/23/2007
	RL/Reg Sign Rev. 0 WI for 100-N-62 Pipes	5/23/2007	5/31/2007
	RL/Regulator Sign Rev. 0 WI for 120-N-4	5/23/2007	5/31/2007
	RL/Regulator Sign Rev. 0 WI for 628-2	5/23/2007	5/31/2007
	ESD - Issue Rev. 0 of ESD	6/18/2007	7/12/2007
	RL/Reg Review Draft A WI for 100 N Misc Pipe	8/8/2007	9/5/2007
	RL/Regulator Design Briefing for 100-N Design	8/16/2007	8/16/2007
	RL/Reg Sign Rev. 0 WI for 100N Misc Pipe	9/17/2007	9/24/2007
100-D			
	Reg Sign Rev. 0 Closure Doc for 100-D-50:5	12/4/2006	1/2/2007
	RL/Reg Review Draft A Closure Doc for 132-D-1	2/1/2007	3/15/2007
	RL/Regulator Review Draft A WI for 100-D-56	2/23/2007	3/20/2007
	RL/Reg review of Draft A Closure Doc 100-D--50:3	2/26/2007	3/21/2007
	RL/Reg Review Draft A Closure Doc 100-D-50:2	2/26/2007	3/29/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-56	3/1/2007	3/8/2007
	RL/Regulator Review Draft A WI for 126-DR-1	3/5/2007	3/29/2007
	RL/Regulator Review Draft A WI for 126-D-2	3/22/2007	4/18/2007
	RL/Regulator Review Draft A WI for 100-D-30	4/1/2007	5/1/2007
	RL/Regulator Review Draft A WI for 120-D-2	4/4/2007	5/1/2007
	RL/Regulator Review Draft A WI for 100-D-2	4/5/2007	5/2/2007
	RL/Reg Signature Rev 0 Closure Doc for 100-D-50:3	4/9/2007	4/12/2007
	RL/Regulator Sign Rev. 0 WI for 126-DR-1	4/10/2007	4/17/2007
	RL/Reg Sign Rev 0 Closure Doc. for 100-D-50:2	4/17/2007	4/23/2007
	RL/Regulator Sign Rev. 0 WI for 126-D-2	4/30/2007	5/7/2007
	RL/Regulator Sign Rev. 0 WI for 120-D-2	5/10/2007	5/17/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-30	5/13/2007	5/20/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-2	5/14/2007	5/21/2007
	RL/Reg review of Draft A Closure Doc for 100-D-14	5/21/2007	6/25/2007
	RL/Regulator Review Draft A WI for 1607-D2:2	6/25/2007	7/23/2007
	RL/Regulator Review Draft A WI for 100-D-1	6/27/2007	7/25/2007
	RL/Reg Review Draft A Closure Doc for100-D-56	6/27/2007	8/13/2007
	RL/Reg Review Draft A Closure Doc for100-D-30	7/9/2007	8/21/2007
	RL/Regulator Review Draft A WI for 116-D-5	7/10/2007	8/6/2007
	RL/Reg Sign Closure Document for 100-D-14	7/12/2007	7/18/2007
	RL/Regulator Review Draft A WI for 100-D-32	7/12/2007	8/8/2007
	RL/Reg Review Draft A Closure Doc for 126-DR-1	7/16/2007	8/28/2007
	RL/Regulator Review Draft A WI for 116-DR-5	7/18/2007	8/14/2007
	RL/Reg Review Draft A Closure Doc for100-D-2	7/24/2007	8/28/2007
	RL/Regulator Sign Rev. 0 WI for 1607-D2:2	8/1/2007	8/8/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-1	8/6/2007	8/13/2007
	RL/Regulator Review Draft A WI for 100-D-29	8/13/2007	9/10/2007
	RL/Regulator Review Draft A WI for 100-D-43	8/13/2007	9/10/2007
	RL/Regulator Review Draft A WI for UPR-100-D-5	8/14/2007	9/11/2007
	RL/Regulator Review Draft A WI for 100-D-45	8/14/2007	9/11/2007

Field Remediation and Sample Design Cleanup Verification for the December 2006 UMM

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-D (Continued)			
	RL/Regulator Review Draft A WI for 118-D-5	8/14/2007	9/11/2007
	RL/Regulator Sign Rev. 0 WI for 116-D-5	8/15/2007	8/22/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-32	8/20/2007	8/27/2007
	RL/Regulator Sign Rev. 0 WI for 116-DR-5	8/23/2007	8/30/2007
	RL/Reg Review Draft A Closure Doc for 120-D-2	8/30/2007	9/27/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-D-56	9/5/2007	9/12/2007
	RL/Reg Review Draft A Closure Doc for100-D-32	9/5/2007	9/27/2007
	RL/Reg Review Draft A Closure Doc for100-D-45	9/11/2007	9/27/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-D-30	9/13/2007	9/20/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-29	9/19/2007	9/26/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-43	9/19/2007	9/26/2007
	RL/Regulator Sign Rev. 0 WI for UPR-100-D-5	9/20/2007	9/27/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-D-2	9/20/2007	9/27/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-45	9/20/2007	9/27/2007
	RL/Regulator Sign Rev. 0 WI for 118-D-5	9/20/2007	9/27/2007
	RL/Reg Sign Rev. 0 Closure Doc for 126-DR-1	9/20/2007	9/27/2007
	RL/Reg Review Draft A Closure Doc for100-D-1	9/26/2007	9/27/2007
	RL/Reg Review Draft A Closure Doc for 126-D-2	10/10/2007	11/27/2007
	RL/Reg Sign Rev. 0 Closure Doc for 120-D-2	10/22/2007	10/29/2007
	RL/Regulator Review Draft A WI for 100-D-3	11/27/2007	12/26/2007
	RL/Regulator Review Draft A WI for 116-D-8	11/27/2007	12/26/2007
	RL/Regulator Review Draft A WI for 100-D-47	12/4/2007	1/3/2008
	RL/Reg Sign Rev. 0 Closure Doc for 126-D-2	12/19/2007	12/31/2007
100-F			
	RL/Regulator Review Draft A WI for 100-F-46	**12/4/2006**	12/21/2006
	RL/Reg Review Draft A Closure Doc for 118-F-3	**12/4/2006**	1/15/2007
	RL/Reg Sign Rev 0 Closure Doc for 118-F-3	**12/4/2006**	1/15/2007
	RL/Reg Review Draft A Closure Doc for 100-F-20	12/18/2006	2/5/2007
	RL/Reg review of Draft A Closeout Docm. 1607-F3	1/20/2007	2/20/2007
	RL/Regulator Review Draft A WI for 100-F-49	1/24/2007	2/21/2007
	RL/Regulator Review Draft A WI for 100-F-41	2/12/2007	2/23/2007
	RL/Regulator Review Draft A WI for 100-F-44	2/15/2007	3/1/2007
	RL/Regulator Review Draft A WI for 100-F-45	2/15/2007	3/1/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-46	2/15/2007	3/1/2007
	RL/Regulator Review Draft A WI for 100-F-47	2/15/2007	3/1/2007
	RL/Reg Sign Rev 0 Closure Doc for 100-F-20	2/16/2007	2/23/2007
	RL/Regulator Review Draft A WI for 100-F-48	2/20/2007	3/7/2007
	RL/Regulator Review Draft A WI for 100-F-50	2/20/2007	3/7/2007
	RL/Regulator Review Draft A WI for 100-F-51	2/20/2007	3/7/2007
	RL/Regulator Review Draft A WI for 100-F-52	2/20/2007	3/7/2007
	RL/Regulator Review Draft A WI for 100-F-54	2/20/2007	3/7/2007
	RL/Regulator Review Draft A WI for 100-F-53	2/24/2007	3/21/2007
	RL/Regulator Review Draft A WI for 100-F-55	2/24/2007	3/21/2007
	RL/Regulator Review Draft A WI for 100-F-56	2/24/2007	3/21/2007
	RL/Regulator Review Draft A WI for 100-F-57	2/24/2007	3/21/2007
	RL/Reg Review Draft A Closure Doc for 100-F-57	2/24/2007	3/21/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-41	2/26/2007	3/5/2007
	RL/Reg review Draft A Closeout Doc for 116-F-15	3/1/2007	3/21/2007
	RL/Reg Sign Rev 0 Closeout Doc for 1607-F3	3/5/2007	3/8/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-45	3/5/2007	3/12/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-47	3/5/2007	3/12/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-49	3/5/2007	3/12/2007

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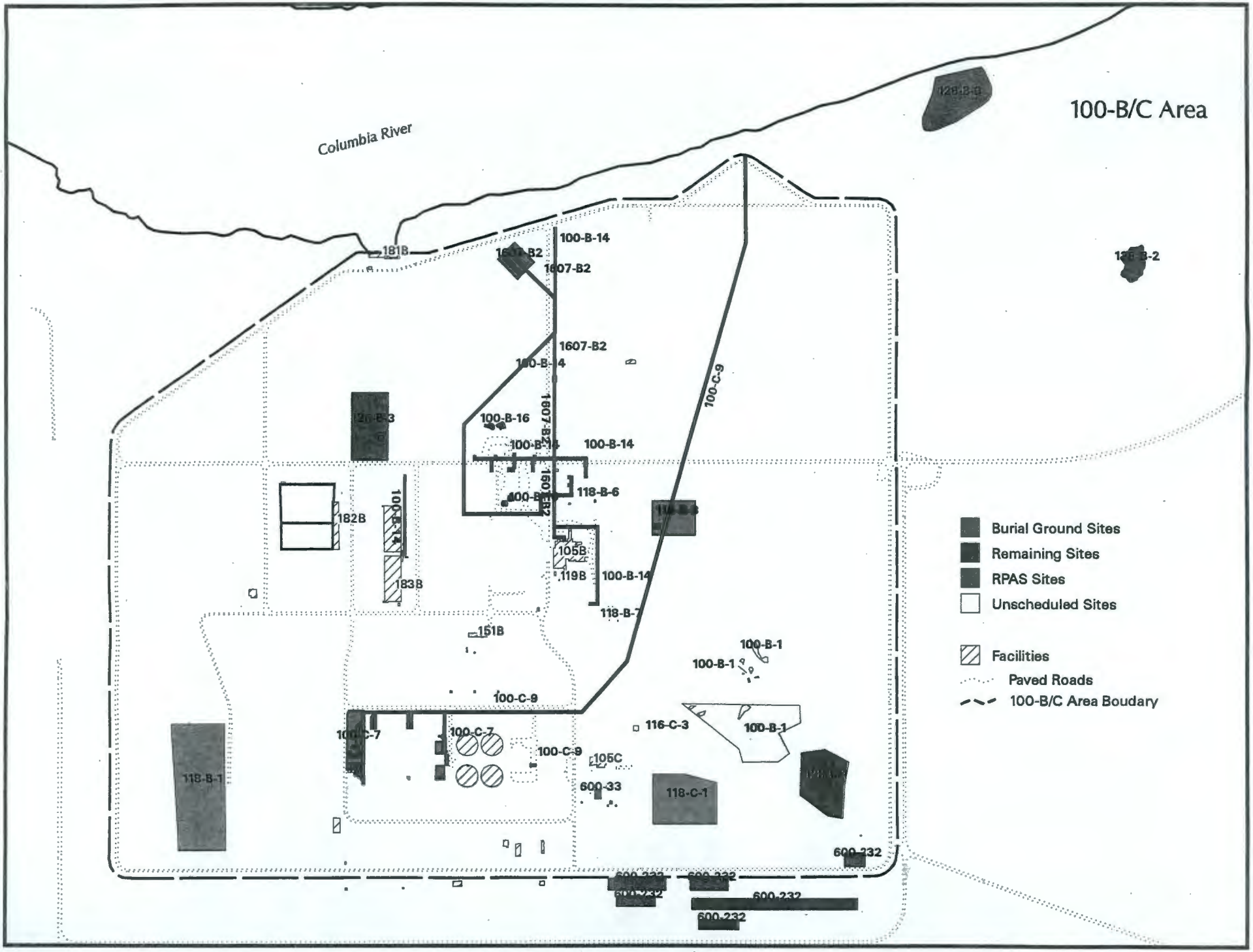
AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-F (Continued)			
	RL/Reg Review Draft A WI for 1607-F1	3/12/2007	4/5/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-44	3/13/2007	3/21/2007
	RL/Reg Review Draft A WI for 1607-F4	3/14/2007	4/10/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-48	3/15/2007	3/22/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-50	3/15/2007	3/22/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-51	3/15/2007	3/22/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-52	3/15/2007	3/22/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-54	3/15/2007	3/22/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-53	3/26/2007	3/29/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-55	3/26/2007	3/29/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-56	3/26/2007	3/29/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-57	3/26/2007	3/29/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-F-57	3/26/2007	3/29/2007
	RL/Reg Review Draft A WI for 118-F-8	3/26/2007	4/19/2007
	RL/Reg Sign Rev 0 WI for 1607-F1	4/4/2007	4/11/2007
	RL/Regulator Review Draft A WI for 120-F-1	4/5/2007	4/25/2007
	RL/Reg Sign Rev 0 Closeout Doc for 116-F-15	4/10/2007	4/16/2007
	RL/Reg Sign Rev 0 WI for 1607-F4	4/10/2007	4/17/2007
	RL/Reg review of Draft A Closure Doc 128-F-2	4/17/2007	5/14/2007
	RL/Reg Sign Rev 0 WI for 118-F-8	4/24/2007	5/1/2007
	RL/Regulator Sign Rev. 0 WI for 120-F-1	5/3/2007	5/9/2007
	RL/Reg Review Draft A Closure Doc for 118-F-5	5/14/2007	6/27/2007
	RL/Reg review of Draft A Closure Doc for 118-F-6	5/22/2007	6/19/2007
	RL/Reg Sign. & Issue Rev 0 Closure Doc 128-F-2	6/4/2007	6/7/2007
	RL/Reg Review Draft A Closure Doc for 100-F-46	6/14/2007	7/31/2007
	RL/Reg Review Draft A Closure Doc for 118-F-1	6/27/2007	8/13/2007
	RL/Reg Sign Rev 0 Closure Doc for 118-F-5	6/28/2007	7/9/2007
	RL/Reg Review Draft A Closure Doc for 100-F-44	7/9/2007	8/21/2007
	RL/Reg Review Draft A Closure Doc for 100-F-45	7/11/2007	8/23/2007
	RL/Reg Review Draft A Closure Doc for 100-F-41	7/12/2007	8/27/2007
	RL/Reg Review Draft A Closure Doc for 120-F-1	8/6/2007	9/19/2007
	RL/Reg Review Draft A Closure Doc for 118-F-2	8/6/2007	9/19/2007
	RL/Reg Review Draft A Closure Doc for 100-F-26	8/6/2007	9/19/2007
	RL/Reg Sign Rev 0 Closure Doc for 118-F-1	8/14/2007	8/21/2007
	RL/Reg Review Draft A Closure Doc for 100-F-36	8/14/2007	9/27/2007
	RL/Reg Review Draft A Closure Doc for 118-F-8	8/14/2007	9/27/2007
	RL/Reg Review Draft A Closure Doc for 1607-F1	8/14/2007	9/27/2007
	RL/Reg Review Draft A Closure Doc for 1607-F-4	8/14/2007	9/27/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-F-46	8/22/2007	8/29/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-F-44	9/13/2007	9/20/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-F-45	9/18/2007	9/25/2007
	RL/Reg Sign Rev. 0 Closure Doc for 100-F-41	9/19/2007	9/26/2007
	RL/Reg Sign Rev 0 Closure Doc for 100-F-36	9/20/2007	9/27/2007
	RL/Reg Sign Rev 0 Closure Doc for 120-F-1	9/20/2007	9/27/2007
	RL/Reg Sign Rev 0 Closure Doc for 118-F-2	9/20/2007	9/27/2007
	RL/Reg Sign Rev 0 Closure Doc for 118-F-8	9/20/2007	9/27/2007
	RL/Reg Sign Rev 0 Closure Doc for 100-F-26	9/20/2007	9/27/2007
	RL/Reg Sign Rev 0 Closure Doc for 1607-F1	9/20/2007	9/27/2007
	RL/Reg Sign Rev 0 Closure Doc for 1607-F4	9/20/2007	9/27/2007
100-K			
	RL approve rev of PM-6 Compl 118-K-1 Loadout	**9/14/2006**	11/27/2006
	RL/Reg Review Dtaft A Closure Doc for 118-K-1	10/26/2007	11/12/2007

Attachment 5


100-B/C Area
Columbia River
181B
100-B-14
1607-B2
1607-B2
1607-B2
100-B-4
100-C-9
126-B-3
100-B-16
100-B-14
100-B-14
1607-B2
118-B-6
182B
183B
105B
119B
100-B-14
118-B-7
151B
100-B-1
100-B-1
100-C-9
116-C-3
100-B-1
100-C-7
100-C-9
105C
600-33
118-B-1
118-C-1
600-232
600-232
600-232
600-232
126-B-2
Burial Ground Sites
Remaining Sites
RPAS Sites
Unscheduled Sites
Facilities
Paved Roads
100-B/C Area Boudary

5

Subject: 100-BC Weekly report week ending December 15, 2006.

BC Remedial Action:

118-B-1

- IES has initiated the anomaly opening process.
- Continued to work on close-out issues associated with the site.
- Continued to work on technical issues associated with the characterization and shipment of SNF.
- Completed all pot holing/collection of samples associated with the tritium characterization.

118-C-1

- Continued to work on close-out issues associated with the site.
- Continued to work on technical issues associated with the characterization and shipment of SNF.
- Obtained backfill concurrence.

100-C-9:1S

- Continued to work on close-out issues associated with this site.

100-C-9:2

- Creating the close-out documentation for 1607-B9, B10 and B11 pipelines.

100-B-14:1

- Continuing backfill operations from local piles.

100-B-14:8

- Developing the close-out documentation (as part of 100-B-14:2).
- Started backfilling portions of this site.

100-B-14:2/1607-B2:2

- Continued to backfill portions of this site.

128-B-3

- Waiting on the completion of backfill prior to initiating re-vegetation.

100-B-22

- Evaluating pot hole data and developing a path forward for this site.

116-C-3

- Continue to create a Work Package document for the anticipated work associated with this site.
- Based on the new approach, outside resources (chemical application crew, concrete and fly ash sources) are being contacted and secured.
- Met with DOE and EPA to discuss the revised treatment plan.

Miscellaneous

Continued the electrical/utilities surveys for the roads that require grading at BC.

Finished ripping the sites to facilitate re-vegetation. Nearly 100 acres at 100-BC will be re-vegetated starting December 6. Sites include: 118-B-3, 118-B-2, 126-B-3, 128-B-2, 128-B-3, 100-B-16, 100-C-9:1N, 1607-B2/B7/B8/B10/B11 Septic Fields, and portions of 100-C-6 and 110-B-8.

To support IES' aggressive schedule, the 100-BC Project will be working the next 3 Fridays.

Attachment 6

(6)

0576982

Waste Site: 100-C-9:1 (South) Southern Process Sewer Main	**BACKFILL CONCURRENCE CHECKLIST** (Concurrence to Proceed with Waste Site Backfill Operations)	WIDS No: 100-C-9:1

This checklist is a summary of cleanup verification results for the southern portion of the 100-C-9:1 process sewer. The checklist is intended as an agreement allowing the RCCC subcontractor to backfill the excavation prior to the issuance of the final remaining sites verification package. Copies of calculations are included with this checklist with results summarized below.

Regulatory Requirement	Remedial Action Goals (RAG)	Results	RAG Attained	Ref.
Direct Exposure – Radionuclides	1. Attain 15 mrem/yr dose rate above background over 1,000 years.	1. No radionuclide contaminants of concern (COCs) or contaminants of potential concern (COPCs) were identified for the 100-C-9:1 subsite.	N/A	N/A
Direct Exposure – Nonradionuclides	1. Attain individual RAGs.	1. All individual COC/COPC concentrations are below the direct exposure RAGs. Benzo(a)pyrene was quantified above the direct exposure RAG in overburden material but was determined to be the result of asphalt cross-contamination and was not considered further as a COC/COPC.	Yes	A, B, C
Nonradionuclide Risk Requirements	1. Attain hazard quotient of less than 1 for noncarcinogens.	1. The hazard quotients for individual nonradionuclide COCs/COPCs are less than 1.	Yes	D
	2. Attain cumulative hazard quotient of less than 1 for noncarcinogens.	2. The cumulative hazard quotient for the combined shallow zone and overburden decision units is less than 1.		D
	3. Attain excess cancer risk of $<1 \times 10^{-6}$ for individual carcinogens.	3. Excess cancer risk values for individual nonradionuclide COCs/COPCs are less than 1×10^{-6}.		D
	4. Attain a total excess cancer risk of $<1 \times 10^{-5}$ for carcinogens.	4. The total excess cancer risk value for the combined shallow zone and overburden decision units is less than 1×10^{-5}.		D
Groundwater/River Protection – Radionuclides	1. Attain single COC groundwater & river RAGs.	1. No radionuclide COCs or COPCs were identified for the 100-C-9:1 subsite.	N/A	N/A
	2. Attain National Primary Drinking Water Regulations 4 mrem/yr (beta/gamma) dose standard to target receptor/organ.	2. No radionuclide COCs or COPCs were identified for the 100-C-9:1 subsite.	N/A	N/A
	3. Meet drinking water standards for alpha emitters: the more stringent of 15 pCi/L MCL or 1/25th of the derived concentration guide for DOE Order 5400.5.	3. No alpha-emittiting radionuclide COCs or COPCs were identified for the 100-C-9:1 subsite.	N/A	N/A
	4. Meet total uranium standard of 21.2 pCi/L.	4. Uranium was not identified as a COC/COPC for the 100-C-9:1 subsite.	N/A	N/A

Waste Site: 100-C-9:1 (South) Southern Process Sewer Main	**BACKFILL CONCURRENCE CHECKLIST** (Concurrence to Proceed with Waste Site Backfill Operations)	WIDS No: 100-C-9:1

Regulatory Requirement	Remedial Action Goals (RAG)	Results	RAG Attained	Ref.
Groundwater/River Protection – Nonradionuclides	1. Attain individual nonradionuclide groundwater and river cleanup requirements.	1. Residual concentrations of beryllium, chromium, copper, and mercury exceeded soil RAGs for the protection of groundwater and/or the Columbia River and/or failed one or more parts of the WAC 173-340 test in comparison against those RAGs. However, none of these constituents is predicted to migrate to groundwater (and thus the Columbia River) within 1,000 years. Therefore, residual concentrations achieve the remedial action objectives for groundwater and river protection.	Yes	A, C
Other Supporting Information	1. Work instruction for verification sampling			E

All citations above and attached sheets are on record with Washington Closure Hanford, Records and Document Control. Above noted regulatory requirements have been attained.

D. N. Strom 11-21-06		D. N. Strom 11-21-06		11/21/06	
WCH Manager	Date	WCH Project Engineer	Date	DOE Project Manager	Date

Given the attached information, DOE can proceed with backfill of the site with minimal risk. Final approval that the site has met remedial action objectives and goals will occur with the submittal, review, and approval of the Remaining Sites Verification Package(s) by the lead regulatory agency.

11/21/06		N/A	N/A
EPA Project Manager	Date	Ecology Project Manager	Date

(6)

0576981

Waste Site: 100-C-9:2 Sanitary Sewer Lines	**BACKFILL CONCURRENCE CHECKLIST** (Concurrence to Proceed with Waste Site Backfill Operations)	WIDS No: 100-C-9:2

This checklist is a summary of cleanup verification results for the 100-C-9:2 subsite, inclusive of the (discrete) sewer lines for the former 1607-B8, 1607-B9, 1607-B10, and 1607-B11 septic systems. The checklist is intended as an agreement allowing the RCCC subcontractor to backfill the excavation prior to the issuance of the final remaining sites verification package. Copies of calculations are included with this checklist with results summarized below.

Regulatory Requirement	Remedial Action Goals (RAG)	Results	RAG Attained	Ref.
Direct Exposure – Radionuclides	1. Attain 15 mrem/yr dose rate above background over 1,000 years.	1. Following detection of elevated strontium-90 in the 1607-B9 feeder line remediation footprint, additional remediation was performed and strontium-90 was not detected in resampling. Cesium-137 was quantified significantly below its single-radionuclide 15 mrem/yr dose-equivalence lookup value in the 1607-B9 feeder line remediation footprint. No other radionuclide contaminants of concern (COCs) or contaminants of potential concern (COPCs) were detected in verification samples.	Yes	A, B
Direct Exposure – Nonradionuclides	1. Attain individual RAGs.	1. All individual COC/COPC concentrations are below the direct exposure RAGs.	Yes	A, B
Nonradionuclide Risk Requirements	1. Attain hazard quotient of less than 1 for noncarcinogens.	1. The hazard quotients for individual nonradionuclide COCs/COPCs are less than 1.	Yes	C
	2. Attain cumulative hazard quotient of less than 1 for noncarcinogens.	2. The cumulative hazard quotient for each feeder line remediation footprint (including overburden/below-cleanup-levels material, as applicable) is less than 1.		C
	3. Attain excess cancer risk of $<1 \times 10^{-6}$ for individual carcinogens.	3. Excess cancer risk values for individual nonradionuclide COCs/COPCs are less than 1×10^{-6}.		C
	4. Attain a total excess cancer risk of $<1 \times 10^{-5}$ for carcinogens.	4. The total excess cancer risk value for each feeder line remediation footprint (including overburden/below-cleanup-levels material, as applicable) is less than 1×10^{-5}.		C
Groundwater/River Protection – Radionuclides	1. Attain single COC groundwater & river RAGs.	1. No radionuclide COCs or COPCs were quantified above lookup values for the protection of groundwater and the Columbia River.	Yes	A,B
	2. Attain National Primary Drinking Water Regulations 4 mrem/yr (beta/gamma) dose standard to target receptor/organ.	2. Residual cesium-137 (the only radionuclide detected in final verification sampling) is not predicted to migrate to groundwater (and thus the Columbia River).	Yes	A,B
	3. Meet drinking water standards for alpha emitters: the more stringent of 15 pCi/L MCL or $1/25^{th}$ of the derived concentration guide for DOE Order 5400.5.	3. Gross alpha activity was not detected above background for the 1607-B8 and 1607-B9 feeder lines. No alpha-emittiting radionuclide COCs or COPCs were identified for the 1607-B10 and 1607-B11 feeder lines.	Yes	A,B
	4. Meet total uranium standard of 21.2 pCi/L.	4. Uranium was not identified as a COC/COPC for the 100-C-9:2 subsite.	N/A	N/A

Waste Site: 100-C-9:2 Sanitary Sewer Lines	**BACKFILL CONCURRENCE CHECKLIST** (Concurrence to Proceed with Waste Site Backfill Operations)	WIDS No: 100-C-9:2

Regulatory Requirement	Remedial Action Goals (RAG)	Results	RAG Attained	Ref.
Groundwater/River Protection – Nonradionuclides	1. Attain individual nonradionuclide groundwater and river cleanup requirements.	1. Residual concentrations of multiple metals and organic compounds exceeded soil RAGs for the protection of groundwater and/or the Columbia River. However, none of these constituents is predicted to migrate to groundwater (and thus the Columbia River) within 1,000 years. Therefore, residual concentrations achieve the remedial action objectives for groundwater and river protection.	Yes	A, B
Other Supporting Information	1. Work instructions for verification sampling			D

All citations above and attached sheets are on record with Washington Closure Hanford, Records and Document Control. Above noted regulatory requirements have been attained.

D. N. Strom	11-21-06	D. N. Strom	11-21-06		11/21/06
WCH Manager	Date	WCH Project Engineer	Date	DOE Project Manager	Date

Given the attached information, DOE can proceed with backfill of the site with minimal risk. Final approval that the site has met remedial action objectives and goals will occur with the submittal, review, and approval of the Remaining Sites Verification Package(s) by the lead regulatory agency.

	11/21/06	N/A	N/A
EPA Project Manager	Date	Ecology Project Manager	Date

Attachment 7

(7)

Donnelly, Jack W

From: Obenauer, Dale F
Sent: Wednesday, December 13, 2006 3:44 PM
To: Donnelly, Jack W
Subject: UMM on 12/14/06

Attachments: NovemberK.pdf

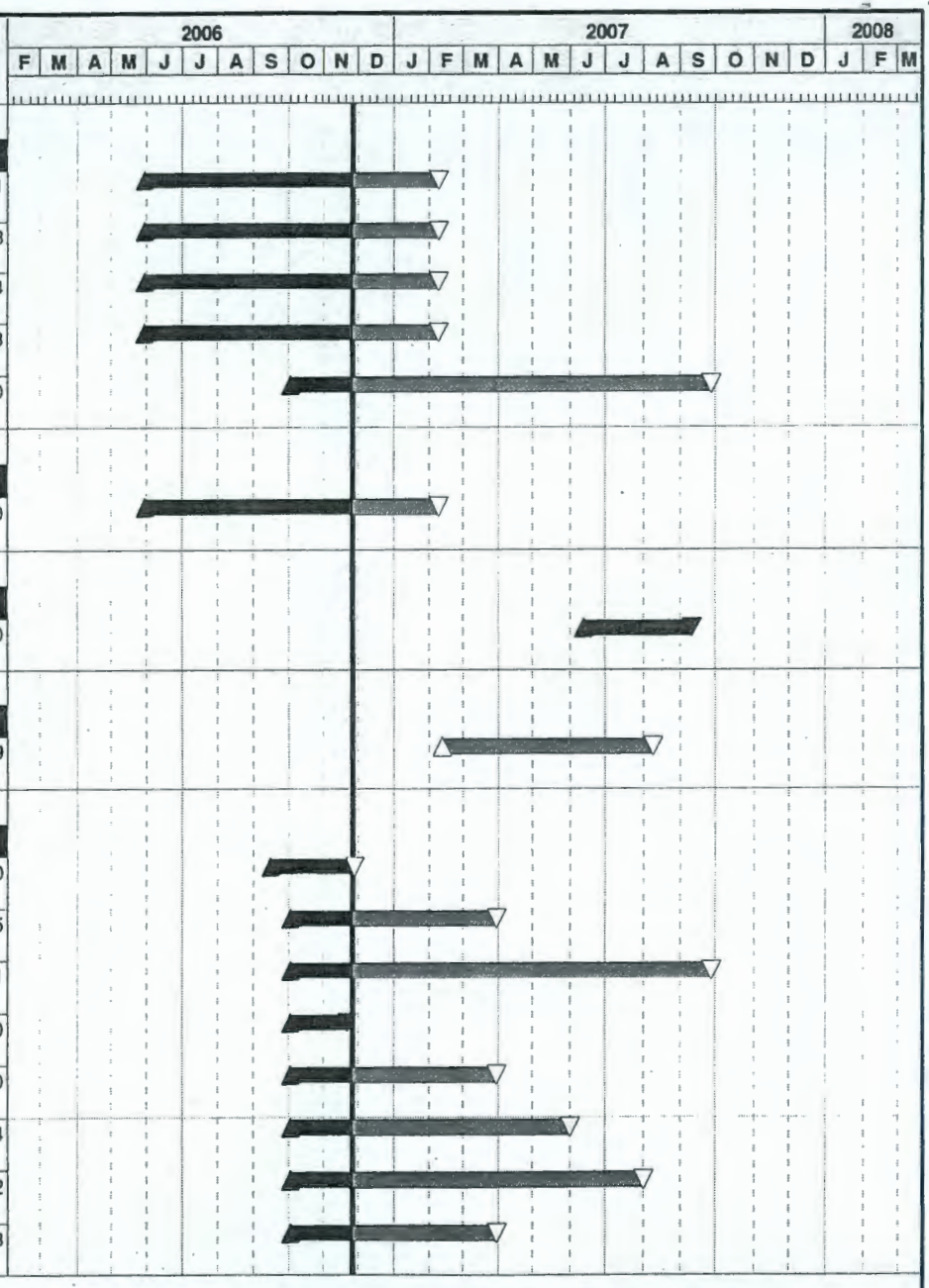
Jack - I will be unable to attend the UMM on Thursday. Can I delegate my status report to you? Below are some key points. There are no project issues or concerns identified. I have also attached the schedule. Please let me know if you have any questions on this information.

- Three of 15 trenches have been completed
- Currently excavating waste from 7 trenches
- Have shipped 51,000 tons of waste as of 11/30/06
- Based on actuals to date, the project is estimating an increase in waste volume of 125% over design volume estimates
- Working with North Wind, Inc. to secure funding for additional characterization of 6 reactor hardware silos

Dale Obenauer
Field Remediation Manager - 118-K-1
Washington Closure Hanford, LLC
MO755/8/100K/MSIN X3-16
(509) 539-9433

NovemberK.pdf (10 KB)

Activity ID	Activity Description	Earned value cost (BCWP)	Cost to Complete
1.03.05.03.06.02.01 Excavation process			
CEC0602A			
RK18K16010	IN PROCESS SAMPLING - 118-K-1 BG	180,062.81	90,914.31
RK18K18002	Overburden Removal for 118-K-1	0.00	3,055.23
RK18K18010	Excavation/Sorting for 118-K-1	1,549,132.86	433,273.54
RKDPM6020A	Excavation/Sorting Process Revisions	363,102.11	63,095.98
RK18K16020	Anomalies	0.00	272,263.20
1.03.05.03.06.02.02 Loadout			
CEC0602B			
RK18K18020	Loadout for 118-K-1	803,001.38	256,000.00
1.03.05.03.06.02.03 Backfill			
+ CEC0602C Backfill 118-K-1			
		0.00	154,695.00
1.03.05.03.06.02.04 Closeout Sampling & Documentation			
+ CEC0602D			
		0.00	277,557.49
1.03.05.75.25.01.01 Fld. Rem.-100K Non Site Specific Support			
CER2501A3 100K Area Non Site Specific FY07			
PM6118K1	RL approve rev of PM-6, Compl 118-K-1 Loadout	0.00	0.00
RKDPM60050	Environmental Air Monitoring/Sampling	64.86	7,772.75
RKDPM60210	118-K-1 FY07 Project Support	29,307.68	704,014.61
RKDPM60230	In-Scope	10,000.00	0.00
RKDPM60310	Queue Manangement FY07	5,411.87	124,161.10
RKDPM6R020	Rad. Routines	983.38	47,458.34
RKSUBOPS10	Subcontractor Monthly Ops FY07	5,576.46	594,441.32
RKTENT1000	Trailer, Tent, and Scale FY07	1,976.40	43,086.48



Start Date 29AUG05
Finish Date 30SEP09
Data Date 27NOV06
Run Date 12DEC06 10:33

Early Bar
Progress Bar
Critical Activity

FKC7 WCH
118-K-1 Burial Ground
Sheet 1 of 1

Date	Revision	Checked	Approved

© Primavera Systems, Inc.

Attachment 8

(8)

Golden, James W

From: Fancher, Jonathan D (Jon)
Sent: Thursday, December 14, 2006 11:04 AM
To: Golden, James W
Subject: For UMM

Importance: High

Jim
We are very busy at D, with FEC digging 100-D-56 and SEC mobilizing. Highlights follow:

- 100-D-56 work has shifted from removal of the piping from the southern portion to removal of overburden from the northern section of the 100-D-56 pipe.
- Construction ~~of construction~~ of the 100D Container Transfer Area (que) has begun.
- 100-D-56 clear liquid is scheduled to ship to ETF December 20, 2006.

Jon Fancher ☺
100D Field Remediation Closure FRM
☎(509) 373-**3127**/ (509) 531-0700
page 373-PAGE, 7345
jon.fancher@wch-rcc.com

Attachment 9

(9) 8

Donnelly, Jack W

From: Buckmaster, Mark A
Sent: Thursday, December 14, 2006 11:11 AM
To: Donnelly, Jack W
Subject: FW: F Area weekly report ending December 14, 2006

Thanks - I will see about getting a schedule to you.

From: Buckmaster, Mark A
Sent: Thursday, December 14, 2006 9:57 AM
To: Miller, Larry R (Rex); Smith, Chris; Waring, Joseph J; Biro, Brian A; Wright, Allison K; Donahoe, Richard L; Wilkinson, Stephen G; Smet, Ann K (Annie); Darby, John W (300 Area TL); Fancher, Jonathan D (Jon); Carlson, Richard A; Obenauer, Dale F; Bigham, Shane D; Callison, Stacey W; 'Lobos.Rod@epamail.epa.gov'; Strom, Dean N; Golden, James W
Subject: F Area weekly report ending December 14, 2006

118-F-1 (Reactor Hardware Burial Ground)

- Completed Primary sorting (Side slope cleanup in process)
- Completed Secondary sorting
- Loadout
- Size reducing concrete/steel structures
- Anomalies - 1 piece of suspect spent nuclear fuel (dose rate - 70 R/hr on contact)

118-F-2 (Reactor Hardware Burial Ground/Experimental Animal Waste)

- Size reducing steel caissons

128-F-1 Burn Site

- In process samples indicated additional material will require remediation below the ordinary high water mark. Remediation strategy has been submitted to the Corp of Engineers for concurrence.

1607-F3 Septic System

- Completed remediation activities associated with Pb/As plume. Verification sampling to be initiated next week.

100-F-36 (108 F Building Footprint)

- Waiting on Pothole data

100-F-26 Pipelines

- Initiated overburden removal

Attachment 10

(13)

Donnelly, Jack W

From: Darby, John W (300 Area TL)
Sent: Thursday, December 14, 2006 4:38 PM
To: Donnelly, Jack W
Subject: 300-FF-2 Status

- Backfill of 618-2 is complete.
- We are giving Fluor access to the site in order for them to complete the drilling of 4 boreholes for the GW investigation.
- We will schedule re-vegetation of the site after Fluor has completed their work. The scheduling of the re-veg will have to be coordinated with other re-veg that is being performed in the 100 Area. We will bring the subcontractor to our site when it is most cost-effective.
- The SWB containing the TRU waste recovered from 618-2 is ready for shipment. We are attempting to expedite transfer to CWC by Dec. 28.
- Mobilization for 618-7 continues. Delayed delivery of a drum opener system has impacted the planned start of remediation. Start of remediation is now planned for mid-February.
- We are planning to set up a briefing early January with the EPA to provide more information about the remediation, drum opening facility, potential for fire, and our response planning

John W. Darby, PE
Field Remediation Manager - 300 Area
Washington Closure Hanford, LLC
(509) 373-3008 office
(509) 781-0314 cell
(509) 373-5373 fax

Attachment 11

Donnelly, Jack W

From: Parnell, Scott E
Sent: Thursday, December 14, 2006 4:03 PM
To: Donnelly, Jack W
Subject: 618-10/11 UMM update

Meeting was held yesterday (12/13) with EPA and DOE to provide status of 618-10/11 project.
The design solution will be submitted by the 1/31/07.
WCH to provide Chris Smith (DOE) with scheduled submittal date early next week.

Attachment 12

Golden, James W

From: Boyd.Alicia@epamail.epa.gov
Sent: Wednesday, December 13, 2006 9:22 AM
To: Douglas_C_Chris_Smith@rl.gov
Cc: Golden, James W; Kevin_D_Bazzell@rl.gov
Subject: Re: 300-FF-2 AMP addendum files

Attachments: Addendum 300-FF-2 AMP.doc; Revised- PTE Group 2 Table_JGW.doc; (October 11 2006) 0300X-CA-V0014 Rev 4.xls

Addendum 0-FF-2 AMP.doc (34

Revised- PTE Group 2 Table_JGW...

(October 11 2006) 0300X-CA-V00...

Chris
The U.S. Environmental Protection Agency (EPA) has reviewed and approves the addendum (and supporting documentation, both attached below) for the Air Monitoring Plan for the 300-FF-2 Waste Sites Remedial Action.
Please see that this approval makes it into the minutes of the upcoming unit managers meeting. Thanks.

Alicia L. Boyd
EPA Hanford Project Office
309 Bradley Blvd Suite 115
Richland, WA 99352
(509) 376-4919

"Golden, James W" <james.golden@wch-rcc.com>
12/06/2006 01:30 PM

To: Alicia Boyd/R10/USEPA/US@EPA
cc: "Golden, James W" <james.golden@wch-rcc.com>
Subject: 300-FF-2 AMP addendum files

<<Addendum 300-FF-2 AMP.doc>> <<Revised- PTE Group 2 Table_JGW.doc>> <<(October 11 2006) 0300X-CA-V0014 Rev 4.xls>>

Alicia:

Here are all the files that support the 300-FF-2 addendum. If you're okay with these, please provide email concurrence and I'll make sure to provide a hard copy for submittal to the Administrative Record at the next Unit Managers Meeting.

Thanks,

Jim
521-0877 (See attached file: Addendum 300-FF-2 AMP.doc)(See attached file: Revised- PTE Group 2 Table_JGW.doc)(See attached file: (October 11 2006) 0300X-CA-V0014 Rev 4.xls)

Air Monitoring Plan Addendum for the
300-FF-2 Waste Sites Remedial Action
(October 2006)

Basis for revisions to the Air Monitoring Plan:

The potential to emit for Group 2 waste sites has been recalculated resulting in a reduction in the potential unabated offsite from 5.17 mrem/yr to 4.13 mrem/yr. Primary changes to the calculation include:

- Change in soil density
- Addition of discrete inventory for 618-7
- Addition of liquid inventory for 618-13 and 618-7
- Addition of thorium-232 nitrate and oxide drums to 618-7
- Reduced the number or uranium drums in 618-7 per the safety documents (10% uranium drums and 90% Zircaloy-2 drums)
- Revised soil volume (removed clean layback)

Revisions authorized by this addendum:

1. Section 1.1, Drum Handling, 1st paragraph. In the 2nd sentence, change 1008 drums to 670. Change the 4th and 5th sentence to read as follows: "Of the estimated total, approximately 156 drums are assumed to contain depleted uranium oxide powder, approximately 510 drums are assumed to contain depleted uranium chips immersed in oil, and approximately 4 drums contain thorium (thorium nitrate or thorium oxide) (WCH 2006a). There are also an estimated 773 drums containing Zircaloy-2 in the 618-7 Burial Ground (WCH 2006a).

2. Section 1.1, Table 2. Change drum count from "232" to "156" and from "776 to "510.

3. Section 1.1, last paragraph, 1st sentence. Change "1008" drums to "670" drums.

4. Section 2.1, 3rd paragraph, 3rd sentence. Change the 3rd sentence to read as follows: "The total waste site volumes used in calculating the inventory are documented in Calculation No. 0300X-CA-V00014, Rev 4 (WCH 2006a)."

5. Section 2.1, 3rd paragraph, 3rd sentence. Change the reference at the end of the 3rd paragraph to read (WCH 2006a)

6. Section 2.1, last paragraph. Replace the 3rd and 4th sentence with the following: The CAP88-PC model summary and synopsis are presented in WCH Calculation No. 0300X-CA-V0014, Rev. 4 (WCH 2006a). The

calculated total unabated offsite doses for the remedial action of Groups 1, 2, and 3 are 4.21 mrem/yr, 4.13 mrem/yr, and 1.84E-02 mrem/yr respectively.

7. Section 5.0. Modify references as follows:

- Delete "BHI, 2004a".
- Delete "BHI, 2005b".
- Add: WCH, 2006a, *Air Emissions Calculation for Removal of Contaminated Material from the 300-FF-2 OU sites*, No. 0300X-CA-V0014, Rev 4., Washington Closure Hanford, Richland, Washington."

8. Attachment 1.
   - Replace Group 2 sites potential to emit with the attached revised table.
   - Footnote 1 and 2, modify calculation reference to read: "Calculation 0300X-CA-V0014, Rev. 4, *Air Emission Calculation for Removal of Contaminated Material from 300-FF-2 OU Sites*.
   - Footnote [a] and [b] should read [1] and [2]

GROUP 2 SITES POTENTIAL TO EMIT (Ci/yr)							
	POTENTIAL TO EMIT (Ci/yr)[1]						
Isotope	Drums	Soils	HEPA Vacuums	Liquids	Discrete Items	Total PTE	UNABATED DOSE (mrem/yr)[2]
Co-60	N/A	3.67E-05	8.09E-06	1.00E-08	0.00E+00	4.48E-05	1.05E-04
Zn-65	N/A	2.04E-05	7.35E-07	1.00E-08	0.00E+00	2.11E-05	9.59E-06
Sr-90	N/A	2.43E-04	7.94E-06	1.00E-08	0.00E+00	2.51E-04	3.96E-04
Y-90	N/A	2.43E-04	7.94E-06	1.00E-08	0.00E+00	2.51E-04	9.27E-07
Ru-106	N/A	1.26E-05	3.82E-06	0.00E+00	0.00E+00	1.64E-05	4.34E-06
Cs-137	N/A	1.67E-04	3.65E-05	1.00E-08	0.00E+00	2.03E-04	1.13E-04
Ba-137m	N/A	1.58E-04	3.45E-05	1.00E-08	0.00E+00	1.92E-04	5.02E-09
Ra-226	N/A	4.38E-05	1.58E-06	0.00E+00	0.00E+00	4.54E-05	3.41E-04
Th-228	N/A	9.67E-05	3.49E-06	0.00E+00	0.00E+00	1.00E-04	9.59E-03
U-234	5.33E-05	3.46E-02	1.25E-03	1.00E-08	0.00E+00	3.59E-02	1.90E+00
U-235	3.30E-06	3.18E-03	1.15E-04	1.00E-08	0.00E+00	3.30E-03	1.65E-01
U-238	3.14E-04	3.46E-02	1.25E-03	1.00E-08	0.00E+00	3.61E-02	1.70E+00
Pu-238	N/A	1.75E-05	6.78E-07	1.00E-08	0.00E+00	1.82E-05	2.37E-03
Pu-239	N/A	1.48E-03	5.77E-05	1.00E-08	0.00E+00	1.54E-03	2.16E-01
Pu-241	N/A	1.48E-03	5.77E-05	1.00E-08	2.88E-07	1.54E-03	3.38E-03
Eu-155	N/A	0.00E+00	0.00E+00	1.00E-08	0.00E+00	1.00E-08	8.08E-10
Th-232	5.20E-04	9.05E-06	3.53E-07	0.00E+00	0.00E+00	5.30E-04	7.27E-02
Am-241	N/A	2.43E-04	1.09E-05	1.00E-08	5.40E-08	2.54E-04	5.49E-02
TOTAL							4.13E+00

[1]Radionuclide potential to emit values are presented in Calculation 0300X-CA-V0014, Rev. 4, *Air Emission Calculation for Removal of Contaminated Material from 300-FF-2 OU Sites*
[2]The annual unabated dose was determined using the CAP88-PC, Version 2 Model. The PTE was the input for the model, and the model generated the annual unabated dose. The CAPP-88 PC model summary and synopsis is presented in Attachment c of Calculation 0300X-CA-V0014, Rev. 4, *Air Emissions Calculation for Removal of Contaminated material from 300-FF-2 OU Sites.*
N/A = Not Applicable

Attachment 13

(13)

End State and Final Closure
December 14, 2006

Risk Assessment Status

100/300 Area RCBRA Component

- The next monthly workshop (via teleconference) to discuss risk assessment methodology with Tri-Parties and stakeholders is December 14, 2006.

Inter-Areas

- Approval copies of the SAP and Appendix E will be transmitted following disposition of final comments
- Sampling activities are in progress – MIS, pore-water, sediment, installation of aquifer tubes, clam-tubes and rock baskets.

Columbia River Component

- WCH is developing the estimate to complete the work plan and scoping study sampling plan

Source and Groundwater Assessment Integration Strategy

- The strategy document will be issued as a Draft B in early November.

Long-Term Stewardship Status

Long-Term Stewardship

- Planning for Transition to Long-Term Stewardship document in DOE review through end of January

Orphan Sites Evaluations

- 100-D Area summary report to be submitted for DOE/regulator review in late January
- 100-UI-2/100-IU-6 historical review near completion
- 100-IU-2 field walkdown underway
- 100-H Area historical review initiated

Long-Term Stewardship

- Planning for Transition to Long-Term Stewardship document in DOE review through end of January

(2)

RCC End State and Final Closure Project
Risk Assessment - Document and Involvement Look Ahead
December-06

Task	Document	Activity	Status	Target Start Date	Regulator Review	Target End Date
100 & 300 Area Component	100 Area and 300 Area Component of the RCBRA	Risk Assessment Report in Development	In Progress	1-Apr-06	1-Jul-07	22-Oct-07
Columbia River Component	Risk Assessment Work Plan, Scoping Study	WCH Drafting Scope, Schedule, Resource Estimate for WP completion and scoping study	In Progress	1-Oct-06	No review, but seeking input	29-Dec-06
Inter-Areas	Inter Areas SAP Addendum	SAP Rev. 1 Approval Copies being transmitted to agencies through RL.	Finalization	2-Aug-06	Aug 1,2006 - Sept 14, 2006	14-Dec-06
Integration	Integration Strategy	Draft B	In Progress	3-Oct-05	stakeholders - Nov. 9 - Dec 15	TBD
Meetings/ Workshops		102 Area and 300 Area Risk Assessment Workshop	Planned	14-Dec-06	Call-in, afternoon only	
		103 Area and 300 Area Risk Assessment Workshop	Tentative	16-Jan-06	In Richland	
		104 Area and 300 Area Risk Assessment Workshop	Planned	21-Mar-06	In Richland	

Attachment 14

(14)

100 Area D4 Status
December 14, 2006
100/300 Area Combined Unit Manager Meeting

Ongoing Demolition Activities

- **163-N/183-N –** Above grade demolition complete, load-out in progress.
- **MO-050/MO-358 –** Above grade demolition complete, load-out scheduled week of 12/18/06.
- **1314-N** – Continuing with below grade demolition, preparing to remove tank.

60-Day Project Look Ahead

- 107-N Tank resin removal.
- 1705N/NA and 1706N/NA load-out.
- 182-N Asbestos removal.
- 184-N/NA Hazardous material removal.
- 1312-N LERF Hazardous material removal.
- DOE and Ecology approval of 100-N Ancillary Facilities Waste Characterization SAP.

Attachment 15

(15)

300 Area D4 Status
December 14, 2006
100/300 Area Combined Unit Manager Meeting

Characterization/ Hazardous Material Removal

- **306W** –306W will start after 306E is completed (approx. December 18).
- **3731/3731A** – Hazardous material removal is completed.
- **3707-H** – Hazardous material removal is completed.
- **3706** – Hazardous material removal is ongoing.
- **3720** –Hazardous material removal is ongoing.
- **3718E** – Hazardous material removal is completed.
- **324** – Hazardous material removal is ongoing.
- **327** – Hazardous material removal is ongoing.

Ongoing Demolition Activities

- **305**
- **333**
- **306E**

60-Day Project Look Ahead

- Begin demolition of 306W, 3731, 3731A, 3707-H, and 3718E.
- Address DOE and EPA comments on revision to RAWP #1 (consolidated scope from Action Memo #1, #2, and #3).
- Complete installation of temporary fencing around the southern portion of the 300 Area.
- Pursue EPA/DOE approval of Air Monitoring Plan for RCF prior to January 1, 2007.
- Complete 305-B backfill in January

Attachment 16

(16)

Control Number:	NPL Agreement/Change Control Form	Date Submitted:
139	X Change ___ Agreement ___ Information Operable Unit(s): 300 Area Removal Action	11/20/06 Date Approved: 11/29/06

Document Number/Title:	Date Document Last Issued:
DOE/RL-2004-77 Rev 1, *Removal Action Work Plan #1 for the 300 Area Facilities*	August 2005
Originator: Donna Yasek	**Phone:** 372-9978

Summary Discussion:

Currently, 300 Area facility deactivation, decontamination, decommissioning, and demolition (D4) is authorized under *Action Memorandum #1 for the 300 Area* and being performed in accordance with *Removal Action #1 for the 300 Area.* The scope includes performing D4 of facilities located north of Apple Street in that are located in the 300 Area.

Action Memorandum #2 for the 300 Area authorizes D4 for the 324 and 327 Buildings and associated ancillary facilities. A separate removal action work plan was developed to implement the action memorandum.

Action Memorandum #3 for the 300 Area has been issued to authorize D4 activities for the remaining inactive facilities located in the 300 Area. *Removal Action Work Plan #1 for the 300* Area has been revised to incorporate the facilities addressed in Action Memorandum #3; and is under review by DOE and EPA.

The proposed change is to pursue D4 activities of the facilities addressed under *Action Memorandum #3 for the 300 Area*, following the requirements outlined *Removal Action Work Plan #1 for the 300 Area, Rev. 1*, until the removal action work plan revision has been issued and approved by DOE and EPA.

Justification and Impact of Change:

The proposed change allows for performing removal actions for facilities addressed in *Action Memorandum #3 for the 300 Area* until the removal action work plan revision has been issued and approved.

DOE Project Manager:	**Date:** 11/20/06
EPA Project Manager: A. L. Boyd	**Date:** 11/29/06

Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3

Attachment 17

(17)

Donnelly, Jack W

From: Hadley, Karl A
Sent: Thursday, December 14, 2006 9:33 AM
To: Donnelly, Jack W
Cc: Bond, Fredrick W
Subject: RE: 100/300 Area UMM Final Agenda (2620 Fermi Avenue, Room A110, Dec. 14, 2006)

Jack:

100-N ISS work is awaiting:

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Karl

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Sent: Thursday, December 14, 2006 9:24 AM
To: Donnelly, Jack W; Hildebrand, R Doug; Ayres, Jeffrey M; Bazzell, Kevin D; Bond, Fredrick W; Borghese, Jane V; Boyd, Alicia; Buckmaster, Mark A; Callison, Stacey W; Carlson, Richard A; Charboneau, Briant L; 'scimon@oregontrail.net'; Clark, Clifford E; Clark, Steven W; Corpuz, Franklin M; Darby, John W (300 Area TL); DeLozier, Mary P (Fran); Dieterle, Steven E; Dietz, Linda A; Dittmer, Lorna M; Fabre, Russel J; Fancher, Jonathan D (Jon); Faulk, Dennis A; Fruchter, Jonathan S; Gadbois, Larry E; Gano, Kenneth A (Ken); Golden, James W; Goswami, Dib; Guercia, Rudolph F; Hadley, Karl A; Hartman, Mary J; Hedel, Charles W; Huckaby, Alisa D; Hulstrom, Larry C; Jackson, Ron; Johnson, Vernon G; 'mjon461@ecy.wa.gov'; Koegler, Kim J; Landon, Roger J; LaRue, Deena N; Lerch, Jeffrey A; 'sandral@nezperce.org'; Lobos, Rod; Ludowise, John D; Miller, Larry R (Rex); Morse, John G; Obenauer, Dale F; Ovink, Roger W; Parnell, Scott E; Peterson, Robert E; Piippo, Rob; Price, John; Rochette, Elizabeth; Romine, Larry D; Sands, John P; 'Jash461@ecy.wa.gov'; Skinnarland, Ron R; Smet, Ann K (Annie); Smith, Chris; Smith-Jackson, Noe'l; Strom, Dean N; Swartz, Joseph M (Mike); Thompson, Mike; Thomson, Jill E; Tortoso, Arlene C; Vanni, Jean; Weiss, Stephen G; Westover, Kent R; 'Cwha461@ecy.wa.gov'; Yasek, Donna M; Zeisloft, Jamie; Proctor, Megan L; Saueressig, Daniel G; Vedder, Barry L; Bignell, Dale T
Subject: 100/300 Area UMM Final Agenda (2620 Fermi Avenue, Room A110, Dec. 14, 2006)

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<< File: UMM11-09-06 100-300 UMM Action List.xls >>

Donnelly, Jack W

From: Hadley, Karl A
Sent: Thursday, December 14, 2006 9:33 AM
To: Donnelly, Jack W
Cc: Bond, Fredrick W
Subject: RE: 100/300 Area UMM Final Agenda (2620 Fermi Avenue, Room A110, Dec. 14, 2006)

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Attachment 18

SPECIAL TOPICS

The key areas of revision that we would like to hear feedback from the regulators are:

- What constitutes a significant release and notification requirements
- Our spill evaluation protocol and reporting
- Anomalous waste definitions and management process
- Backfill versus temporary stabilization for worker protection or minimizing releases, and in process characterization in those cases
- Managing ERDF containers where radiation dose is high

Other areas for consideration are:

- Expectation on collecting all liquids from pipelines
- Identification of contractor documents as enforceable documents since they referenced in the RDR on occasion

The global idea is to use the 100 Area RDR as the primary focus and once agreement is near or achieved that the agreements would be applied to the 300 Area RDR as well for consistency.