

## Distribution

## Unit Managers' Meeting: 300 Areas Remedial Action Unit/Source Operable Units

Mary Jarvis.....	DOE-RL, RP (A5-15)
Kevin Leary .....	DOE-RL, RP (A6-38)
Owen Robertson .....	DOE-RL, RP (A3-04)
Mike Thompson.....	DOE-RL, RP (A6-38)
Hector Rodriguez .....	DOE-RL, RP (A5-15)
Mike Goldstein .....	EPA (B5-01)
Brenda Jentzen.....	WDOE (Kennewick) (B5-18)
John Price .....	WDOE (Kennewick) (B5-18)
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Lynn Albin .....	Washington Dept. of Health
Eileen Murphy-Fitch .....	FD (A1-14)
Kim Anselm.....	CHI (H9-02)
John April .....	BHI (L6-06)
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Ella Feist .....	CHI (H9-01)
Larry Hulstrom .....	FH (E6-35)
Jeff Lerch .....	CHI (L6-06)
Jenifer Linville .....	CHI (H9-01)
Debbie Roskelley .....	BHI (H0-17)
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Please inform Debbie Roskelley (372-9562) – BHI (H0-17)  
 of deletions or additions to the distribution list.

Meeting Minutes Transmittal/Approval  
300 Area Unit Managers' Meeting  
Remedial Action and Waste Disposal Unit/Source Operable Unit  
3350 George Washington Way, Richland, Washington  
September 2003

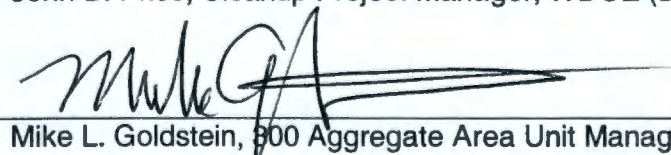
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APPROVAL:  Date Oct 21 03  
Owen Robertson, 300-FF-1 & 300-FF-2 Area Unit Manager, RL (A3-04)

APPROVAL:  Date 10/22/03  
Kevin Leary, 618-10 & 618-11 Area Unit Manager, RL (A6-38)

APPROVAL:  Date 10/22/03  
Mike Thompson, 300-FF-5 Area Unit Manager, RL (A6-38)

APPROVAL: Not Present Date \_\_\_\_\_  
John B. Price, Cleanup Project Manager, WDOE (B5-18)

APPROVAL:  Date 10/21/03  
Mike L. Goldstein, 300 Aggregate Area Unit Manager, EPA (B5-01)

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Meeting minutes are attached. Minutes are comprised of the following:

- Attachment 1 -- Agenda and Outstanding Action Items
  - Attachment 2 -- Attendance Record
  - Attachment 3 -- 300 Area Meeting Minutes – September 16, 2003
  - Attachment 4 -- Outstanding 300 Area Unit Managers' Meeting Action Items (Updated)
  - Attachment 5 -- 300 Area Unit Managers Meeting, September 16, 2003, 300-FF-5 Operable Unit
  - Attachment 6 -- 618-4 Burial Grounds Closeout Results – Statistical & Bias Samples
- 

Prepared by:



K. A. Anselm/P. E. Krueger/D. L. Roskelley (H0-17)

Date

10-14-03

Concurrence by:



Vern Dronen, Project Manager  
BHI Remedial Action and Waste Disposal Project (H0-17)

Date

10/14/03

# UNIT MANAGERS MEETING AGENDA

3350 GWW 1B45

September 16, 2003, 1:30 – 3:30 p.m.

## 300 Area

### **Administrative (1:30 – 1:45)**

- Meeting minutes status
- Next UMM is October 21, 2003, 1:30 – 3:30, 3350 GWW (1B45)
- 3 week extension by EPA for IC Assessments Report Review

### **300-FF-5 (1:45 – 2:00)**

- 300 Area Groundwater Issues
- 618-10, 316-4, and 618-11 Groundwater Issues
- Sampling and Analysis schedule

### **300 Area Remedial Action (2:00 – 2:30)**

- 618-4 Remediation Status
- 618-5 Remediation Status
- Regrading Plan for FF-1 Sites

### **300 Area Design & Assessment (2:30 – 3:00)**

- 300 Area RDR/RAWP and SAP revisions
- ESD to change cleanup standards for outlying 300-FF-2 waste sites

### **618-10/11 Update (3:00 – 3:30)**

- In-situ TRU Waste delineation and removal pilot (EM-50)
- Appendix for RDR/RAWP update

## **Review and Update of Action Item List**

### **Meeting Minutes Schedule**

- Draft – 1 week
- Distribute – 1 Day
- Review – 1 week
- Incorporate – 1 week
- Finalize – Next UMM

## Outstanding 300 Area Unit Managers' Meeting Action Items

### April 2003 Actions

- Rich Carlson (BHI) will ensure that the ESD scope is initiated. Rich will also prepare the North Process Pond batch leach test and 300-FF-1 closeout letter for the administrative record.

### July 2003 Actions

- Bob Peterson (PNNL) and Mike Thompson (RL) to provide the 300-FF-5 letter report/SAP update to Mike Goldstein (EPA).
- Mike Goldstein (EPA) to evaluate and provide a response letter (if necessary) to the City of Richland regarding the 300 Area redevelopment plan/resolution on the backfill issue.
- Rex Miller (BHI) to provide a presentation of the 618-4 and -5 Burial Grounds at the next UMM meeting, to include sampling, closeout, regrading, and activities scheduled this year and next.
- Owen Robertson (RL) to provide a decision to Mike Goldstein (EPA) on whether or not the ESD for changing the land use designation for eight waste sites outside the 300-FF-2 fence will be pursued.
- Ella Feist (CHI) to coordinate adding the ESD for changing uranium cleanup standards to the HAB agenda and include it in the Hanford Update.
- Larry Hulstrom (FH) to provide the draft RDR/RAWP appendix update to Kevin Leary (RL) and Mike Goldstein (EPA) by July 25, 2003.

### August 2003 Actions

- Rich Carlson (BHI) will resolve the discrepancy in the meeting minutes.
- Bob Peterson (PNNL) will schedule a meeting for the second week in September to discuss the draft letter with RL and EPA.
- Mike Goldstein (EPA) to send draft EPA Policy on Ready for Reuse Delineation Guidance to Owen Robertson (RL).
- Mike Goldstein (EPA) will write up changes to the ESD and send to Owen Robertson (RL).



**300 AREA UNIT MANAGERS' MEETING MINUTES**  
**Tuesday, September 16, 2003**  
**3350 GWW (1B40), 1:30 – 3:30 p.m.**

**ADMINISTRATIVE**

- **Meeting Minutes Status** – The May and August meeting minutes were signed. Mike Goldstein (EPA) will give the June meeting minutes to John Price (Ecology) for signature. The July meeting minutes are in the process of being corrected.
- **Next UMM** – The next regularly scheduled meeting would occur on October 21, 2003, 1:30-3:30 p.m., 3350 GWW (1B45).
- **ICs Assessments** – Alex Teimouri (RL) stated that post closure requirements and deep vs. shallow zone require action. Mike Goldstein (EPA) will await a letter from RL to EPA discussing proposed actions.

**300-FF-5 OPERABLE UNIT**

- **300-FF-5 O&M Plan/SAP** – Bob Peterson (Pacific Northwest National Laboratory [PNNL]) reported the status of sampling and analysis activities per the operations and maintenance (O&M) plan/sampling and analysis plan (SAP) (Attachment 5). There is no significant change from the previous UMM briefing.
- Soil sample results are starting to come in, which will help build a clear picture of the transport characteristics of uranium in the vadose zone at the 300 Area. There is no evidence of groundwater impacts from potential releases from the 618-10 Burial Ground, based on results from the two newly-installed monitoring wells. The tritium plume at 618-11 shows minor changes in extent, and the level of contamination appears to be decreasing. There is no indication of a continuing source that may have caused the highest levels of tritium observed near the burial ground.
- The annual Columbia River shoreline water quality and sediment sampling is underway. The sampling is being conducted under CERCLA and the current SAP.
- A letter has been drafted that includes an updated schedule for the SAP. More details will be discussed at a meeting scheduled for Monday, September 22, involving RL, EPA, and PNNL. After the meeting, adjustments will be made and the letter will be issued. Bob Peterson will take a map showing existing plumes and sampling locations to the Monday meeting.
- Planning is underway for Fluor Hanford (FH) installation of aquifer sampling tubes along the Hanford Reach, including locations at the 300 Area shoreline. Aquifer tube

sampling is conducted annually in the fall to evaluate groundwater releases to the river. For fiscal year 2004, provisions have been added to go back to selected sites several times a year to monitor seasonal changes.

- **Preparation for 5-Year ROD Review** - Mike Goldstein (EPA) requested that planning begin to answer issues and questions anticipated during the next 5-year ROD review. Alternate regulatory or remediation pathways may be necessary if it is determined that groundwater maximum contaminant levels for uranium cannot be met in a predictable timeframe. Mike Thompson (RL) suggested consideration of risk-based end states for the 300 Area without cleaning up to meet drinking water standards.

### **300 AREA REMEDIAL ACTION**

- **618-4 Remediation Status** – Jeff Lerch, CH2M Hill Hanford, Inc. (CHI), presented preliminary analytical results of cleanup verification sampling at the 618-4 Burial Ground (Attachment 6). Preparation of calculation briefs for the cleanup verification package will begin shortly.
- **618-5 Remediation Status** – The 618-5 Burial Ground cleanup verification sampling design has been completed and sampling locations have been staked. Sample collection will be performed following concurrence from EPA on the closeout approach.
- **Regrading Plan for FF-1 Sites** - The regrading procurement package has been issued for bidding. Field operations to regrade the 300-FF-1 Operable Unit waste sites and the 618-5 Burial Grounds are to begin in mid-November.

### **300 AREA DESIGN AND ASSESSMENT**

- **300 Area RDR/RAWP and SAP Revisions** – Owen Robertson (RL) stated that RL will agree to changes to the RDR/RAWP proposed by EPA. This includes closing out the “outside the fence” waste sites to 100 Area cleanup standards wherever possible. Language needs to be added to the RDR/RAWP and an explanation of significant differences may be needed to make it an enforceable commitment.
- **300 Area Redevelopment Study** – Mike Goldstein (EPA) stated that this item needs to be added to the agenda. A grant has been issued to the City of Richland to look into redevelopment alternatives for the 300 Area. This effort will kick off with a trip to the Mound site in Ohio during the second week of October.



**618-10/11 BURIAL GROUNDS**

- Kevin Leary (RL) stated that the workshop held in June was very successful. Approximately 140 people and 18 vendors attend the workshop. Larry Hulstrom (FH) will finalize the workshop proceedings on a website.
- **In-situ TRU Waste delineation and removal pilot (EM-50)** – There are multiple awards to be finalized before the end of the 2003 fiscal year on September 30.

**Review and Update of Action Item List** – All action items are still current. The updated action item list is provided as Attachment 4.

## Outstanding 300 Area Unit Managers' Meeting Action Items (Updated)

### April 2003 Actions

- Rich Carlson (BHI) will ensure that the ESD to change cleanup standards for outlying 300-FF-2 waste sites from 350 pCi/g to 267 pCi/g for uranium is initiated. Rich will also prepare the letter for the administrative record that documents the analysis and conclusions of the batch leach test data for the North Process Pond to tie together closeout of the 300-FF-1 waste sites. **Update as of 10/9/03 per Rich Carlson: The draft ESD is currently in the regulator review cycle. The first part of this action item is closed. The North Process Pond batch leach test has been completed and a draft calculation has been prepared and is undergoing internal review. When the review is complete, Rich Carlson will forward to RL and it will be included in the administrative record at that time. This part of the action item should be complete within the next couple of weeks.**

### July 2003 Actions

- Bob Peterson (PNNL) and Mike Thompson (RL) to provide the 300-FF-5 letter report/SAP update to Mike Goldstein (EPA).
- Mike Goldstein (EPA) to evaluate and provide a response letter (if necessary) to the City of Richland regarding the 300 Area redevelopment plan/resolution on the backfill issue.
- Rex Miller (BHI) to provide a presentation of the 618-4 and -5 Burial Grounds at the next UMM meeting, to include sampling, closeout, regrading, and activities scheduled this year and next.
- Owen Robertson (RL) to provide a decision to Mike Goldstein (EPA) on whether or not the ESD for changing the land use designation for eight waste sites outside the 300-FF-2 fence will be pursued.
- Ella Feist (CHI) to coordinate adding the ESD for changing uranium cleanup standards to the HAB agenda and include it in the Hanford Update.
- Larry Hulstrom (FH) to provide the draft RDR/RAWP appendix update to Kevin Leary (RL) and Mike Goldstein (EPA) by July 25, 2003. **Action completed July 25, 2003, per email from Larry Hulstrom.**

### August 2003 Actions

- Rich Carlson (BHI) will resolve the discrepancy in the meeting minutes.
- Bob Peterson (PNNL) will schedule a meeting for the second week in September to discuss the draft letter with RL and EPA.
- Mike Goldstein (EPA) to send draft EPA Policy on Ready for Reuse Delineation Guidance to Owen Robertson (RL).
- Mike Goldstein (EPA) will write up changes to the ESD and send to Owen Robertson (RL).

## 300 Area Unit Managers Meeting

September 16, 2003

### 300-FF-5 Operable Unit

#### 300 Area Groundwater Issues

- Uranium concentration increase at well 399-1-10A:
- RCRA Monitoring Plans:

#### 618-10/361-4 and 618-11 Groundwater Issues

- Groundwater downgradient of 618-10 and 316-4:
- Groundwater downgradient of 618-11:

#### Sampling and Analysis

- Update to Sampling and Analysis schedules:
  - Revised well schedules in the system for FY 2004
  - Shoreline activities underway soon (CERCLA; SESP; EcoMon)
  - Meeting September 22 to present letter update to SAP

Bob Peterson, PNNL  
373-9020

Sample	Decision Unit	Location	As mg/kg	Pb mg/kg	U-234 pCi/g	U-235 pCi/g	U-238 pCi/g	U (total) pCi/g
J00WT8	Deep Zone	A-1	1.9	20	2.56	0.114 u	2.14	4.814
J00WV2	Deep Zone	A-1 (dup)	2.2	18.4	20.2	1.09	21.5	42.79
J00WW8	Deep Zone	A-1 (split)						
J00WT9	Deep Zone	A-2	1.4	4.6	1.19	0 u	1.54	2.73
J00WV0	Deep Zone	A-3	2	3.1	0.333	0.031 u	0.512	0.876
J00WV1	Deep Zone	A-4	2	13.4	2.05	0.116 u	2.05	4.216
J00WV3	Shallow Zone	A-1	2.5	3.3	0.744	0.053 u	0.678	1.475
J00WV7	Shallow Zone	A-1 (dup)	3.2	4.1	0.485	0 u	0.536	1.021
J00WW9	Shallow Zone	A-1 (split)						
J00WV4	Shallow Zone	A-2	2.7	6	0.865	0.028 u	1.23	2.123
J00WV5	Shallow Zone	A-3	2.8	49	3.22	0.089 u	3.07	6.379
J00WV6	Shallow Zone	A-4	3.2	6.6	1.73	0.186 u	1.91	3.826
J00HD0	BCL #1	A-1			1.3	0.137 u	1.41	2.847
J00HD1	BCL #1	A-2			0.376	0.035 u	0.463	0.874
J00HD4	BCL #1	A-2 (dup)			0.451	0.03 u	0.552	1.033
J00HH9	BCL #1	A-2 (split)						
J00HD2	BCL #1	A-3			0.364	0 u	0.571	0.935
J00HD3	BCL #1	A-4			0.36	0 u	0.194	0.554
J00WV8	BCL #2	A-1	4.9 u	4.5	0.36	0.01 u	0.4	0.77
J00WW2	BCL #2	A-1 (dup)	5 u	2.3 u	0.424	0.01	0.359	0.793
J00WX0	BCL #2	A-1 (split)						
J00WV9	BCL #2	A-2	4.9 u	5	0.378	0.026	0.437	0.841
J00WW0	BCL #2	A-3	4.9 u	4	0.419	0.027	0.438	0.884
J00WW1	BCL #2	A-4	4.9 u	3.8	0.373	0.032	0.342	0.747
J00WW3	BCL #3	A-1	4.9 u	4.5	0.808	0.021 u	0.756	1.585
J00WW7	BCL #3	A-1 (dup)	5 u	3.8	0.942	0.04 u	0.942	1.924
J00WX1	BCL #3	A-1 (split)						
J00WW4	BCL #3	A-2	4.8 u	4.8	0.365	0 u	0.402	0.767
J00WW5	BCL #3	A-3	4.7 u	4.2	0.473	0 u	0.508	0.981
J00WW6	BCL #3	A-4	4.9 u	4	0.401	0 u	0.551	0.952

count	20	20	25	25	25	25
min	1.4 u	2.3 u	0.333	0 u	0.194	0.554
max	5 u	49	20.2	1.09	21.5	42.79
cleanup level	219	1000	NA	NA	NA	267
site background						

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618-4 Burial Ground Closeout Results - Bias Samples

Sample	Waste Stream	Location	As mg/kg	Pb mg/kg	Ba mg/kg	Cr mg/kg	Cd mg/kg	U-234 pCi/g	U-235 pCi/g	U-238 pCi/g	U (total) pCi/g
J00WX2	lead soil stockpile	X-1		7.9				1.04	0 u	1.18	2.22
J00WX3	lead solids stockpile	X-2		6.5				3.15	0.21 u	3.38	6.74
J00WX4	barium soil stockpile	X-3		3.8	84.5	6		7.18	0.512	6.9	14.592
J00WX5	barium soil layer	X-4		3.4	89.7	8.7		0.391	0.028	0.428	0.847
J00WX6	asbestos	X-5									
J00WX7	asbestos	X-6									
J00WX8	drummed waste	X-7		2.8	76.2		0.07	1.02	0.07	1.15	2.24
J00WX9	drummed waste	X-8		3.4	77.5		0.04 u	0.27	0.073 u	0.509	0.852
J00WY0	drummed waste	X-9		8.2	90.6		0.04 u	1.19	0.064	1.36	2.614

count	0	7	5	2	3	7	7	7	7	7
min	0	2.8	76.2	6	0.04 u	0.27	0 u	0.428	0.847	0.847
max	0	8.2	90.6	8.7	0.07	7.18	0.512	6.9	14.592	14.592
cleanup level	219	1000	245,000	>1,000,000	3500	NA	NA	NA	NA	267
site background										

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