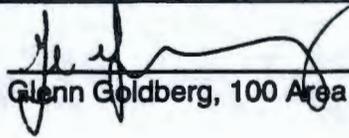
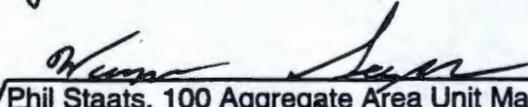


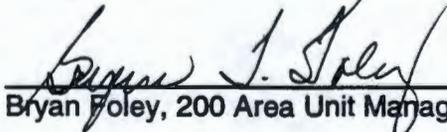
Meeting Minutes Transmittal/Approval
Unit Managers' Meeting
Remedial Action and Waste Disposal Unit/Source Operable Unit
3350 George Washington Way, Richland, Washington

FROM/ APPROVAL:  Date 9/22/98
Glenn Goldberg, 100 Area Unit Manager, RL (H0-12)

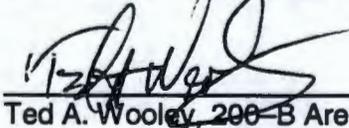
APPROVAL:  Date 11-23-98
Wayne Soper/Phil Staats, 100 Aggregate Area Unit Manager, Ecology (B5-18)

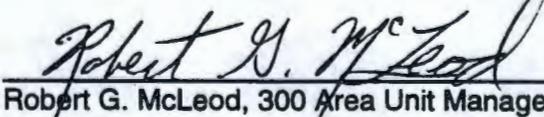
APPROVAL:  Date 9-22-98
Dennis Faulk, 100 Aggregate Area Unit Manager, EPA (B5-01)

APPROVAL: (N/A - did not attend) Date _____
Dorina Wanek, 100-N Area Unit Manager, RL (H0-12)

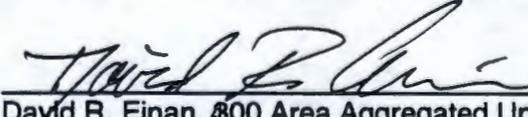
APPROVAL:  Date 11/18/98
Bryan Foley, 200 Area Unit Manager, RL (H0-12)

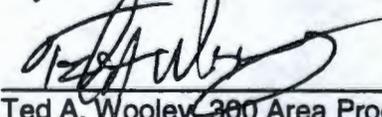
APPROVAL: (N/A - did not attend) Date _____
Joan Bartz/Shri Mohan, 200 Aggregate Area Unit Managers, Ecology (B5-18)

APPROVAL:  Date 9/22/98
Ted A. Wooley, 200-B Area Project Manager, Ecology (B5-18)

APPROVAL:  Date Sept. 22, 1998
Robert G. McLeod, 300 Area Unit Manager, RL (H0-12)

APPROVAL: (not available) Date _____
Jeanne Wallace, 300 Area Aggregate Area Unit Manager, WDOE (B5-18)

APPROVAL:  Date 22 Sept 98
David R. Einan, 300 Area Aggregated Unit Manager, EPA (B5-01)

APPROVAL:  Date 9/22/98
Ted A. Wooley, 300 Area Process Trenches Subproject Manager, Ecology (B5-18)

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

Attachment #1a, b, and c	--	Agendas
Attachment #2a, b, and c	--	Attendance Records
Attachment #3	--	Meeting Minutes
Attachment #4	--	Status Package
Attachment #5	--	Outline of Proposed Strategy on Handling Closeout and Backfill of Large Lateral Vadose Zone Plumes
Attachment #6	--	100 B/C and 100 D Area Air Monitoring Evaluation
Attachment #7	--	CERCLA Activities List for 100 B/C and 100 D Remedial Action Project
Attachment #8	--	Rejected and Reclassified Rejected Sites in the 100 Areas (6/25/98)
Attachment#9	--	Letter from BHI to RL, <i>Round One Groundwater Data for Fiscal Year 1998 for the 300-FF-2 Operable Unit</i>
Attachment #10	--	Waste Information Data System General Summary Report

Prepared by:

Michelle Peterson Date 12/10/98
Michelle Peterson (H0-10)/Tamen Rodriguez (H0-17)

Concurrence by:

Vern Dronen Date 12/14/98
Vern Dronen, BHI Remedial Action and Waste Disposal Project Manager (H0-17)

UNIT MANAGERS' MEETING AGENDA
3350 George Washington Way, Room 2A01
June 25, 1998

2:00 p.m. -- 100 Area

Remedial Action (B/C, D, H, F, and K)

- Effluent Pipeline Remediation -- Closeout and Backfill Strategy
- Large Lateral Vadose Plumes, and Associated Waste Sites -- Closeout and Backfill Strategy
- Inclusion of UPR Sites
- Deep Vadose Zone Characterization at 100-D; also 100-H, -F, and -K in the future
- Other Items (e.g., 116-C-1 Test Pit, Archived Composite Samples)
- Re-evaluation of Potential to Emit (PTE) Air Emissions and Associated Interface with Department of Health

100 Area Assessments and Remedial Design

- 100 Area Remaining Sites
 - Status of Region 10 and Lacy Review of Proposed Plan
 - Homework Assignment Status -- Proposed Categorization of Pending Sites and Continued Disposition Sites
 - Appendix C Update
- Burial Ground FS Status
- North Slope Deletion Status

UNIT MANAGERS' MEETING AGENDA
3350 George Washington Way, Room 2A01
June 30, 1998

2:00 p.m. -- 200 Area

- 200-CW-3 200 North Cooling Water Waste Group
-- Status Path Forward
- 200 Area Implementation Plan Status
- 200-CW-1 Gable/B-Pond and Ditches Cooling Water Waste Group DQO Status
- 216-B-2-2 Ditch Borehole Characterization Status
-- Borehole Summary Report Completion
- Hanford Prototype Barrier Monitoring
-- Expectations for Fiscal Year 1999

200-ZP Groundwater

- 200-ZP-1/ZP-2 Status and Update
- Path Forward for Determining Future Remedial Alternatives for Groundwater and Vadose Zone

UNIT MANAGERS' MEETING AGENDA
3350 George Washington Way, Room 1B45
June 18, 1998

1:00 p.m. – 300 Area

300-FF-1

Process Trenches

- Backfill and Regrading Status
- Documents
 - Vadose Zone Clean Closure Report
 - Inspection, Monitoring, and Maintenance Plan/Regrading Plan
 - Independent PE Report and Certification
- Permit Revisions
 - Post-Closure Plan, Modification D
 - Class 3 to 1; Groundwater
- Landfill 1D
 - Treatability Variance Status
 - Lead Analytical Study

Burial Ground 618-4

- Drum DQO Status

Landfill 1A

- Cultural Resource Test Trench

North Process Pond

- Excavation Status
- UCL Areas (Berms and Scrapings Area Approval)

South Process Pond

- Excavation Depths

300-FF-2

- TPA Milestone Change Notice
- Near-Term Planning for FFS/PP

Remedial Action and Waste Disposal Unit Managers' Meeting
Official Attendance Record - 100 Areas
June 25, 1998

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
W RENTZEN	BHI		2-9620
A L LANGSTAFF	BHI		3-5876
JOAN WOOLARD	BHI		372-9649
FRANK M. CORPZ	BHI	Engineering	3-1661
Glenn Goldberg	DOE	OU Manager	376-9552
Phil Starr	Ecology	part	736-3029
Wayne Soper	Ecology		736-3049
Dennis Faulk	EPA	RPM	376-8631
CLARENCE ORRIVEAU	BHI	Task Lead	372-9565
Bam Mukherjee	BHI		372-9218
Christ Heide	CHI	100 Area	372-4637
Andie Nietz	BHI	WIDS	372-9378
Steven V. Clark	CHI	100 Area	372-9613
Tanet Badden	CHI	100 Area	372-9698
Michelle Peterson	BHI	RAWD Technical Editor	372-9516

**MEETING MINUTES
REMEDIAL ACTION AND WASTE DISPOSAL
UNIT MANAGERS' MEETING – 100 AREA
June 25, 1998**

Attendees: See Attachment #2a.

Agenda: See Attachment #1a for copy of meeting agenda.

Topics of Discussion:

Remedial Action (B/C, D, H, F, and K)

1. Effluent Pipeline Remediation (Closeout and Backfill Strategy) -- A handout was provided (Attachment #5) on closeout and backfill strategy for the effluent pipeline. BHI proposed looking at primary decision units using bare minimum calculations of sampling maps, GEA analysis, 95% UCL, sum of the fractions, etc.

EPA commented that the RDR 50-50 vadose zone model was not necessarily appropriate to use, and that site- or area-specific data will need to be used to model the vadose zone for pipelines. An example would be scaling the results from the 116-C-1 test pit to the results encountered at the bottom of a selected pipeline section. EPA and Ecology generally concurred with the approach, and a subsequent meeting will be scheduled to go over additional details and examples, and to come to final agreement on a process, which will be captured in meeting minutes (to be approved at a later UMM).
2. Large Lateral Vadose Plumes and Associated Waste Sites (Closeout and Backfill Strategy) -- An outline of a proposed strategy was presented (Attachment #5) on how to handle closeout and backfill of the large lateral vadose plumes. A subsequent meeting will be scheduled to go over additional details and examples and to come to a final agreement on a process, which will be captured in meeting minutes (to be approved at a later UMM).
3. Inclusion of UPR Sites -- BHI would like to approach some of the Remaining Sites while they are working in those locations (for example, the site south of DR-9, as there are three UPR sites there). Discussion was held on this topic, and it was concluded that all Remaining Sites should already be covered in the Remaining Sites FFS/Proposed Plan and ROD, and the UPR sites are included in the April 1995 ROD as proximity sites. Correspondence between RL and Ecology has previously confirmed this application of the proximity provision. The UPR sites are to be remediated as Group 2 sites.
4. Deep Vadose Zone Characterization at 100-D; also 100-H, -F, and -K in the Future -- For the 100-B/C Area, BHI's recently prepared closeout report for 116-C-1 demonstrated that the RAOs and RAGs for the site have been attained. BHI is planning to also perform deep vadose zone characterization at the 100-D Area, and likely at the 116-DR-1 site sometime during FY 1999. EPA and Ecology concurred with the approach to include in the planning, evaluation of analogous conditions, and/or application of the 100-B/C and 100-D Area vadose zone data to the 100-H, -F, and -K Areas.

5. Other Items (e.g., 116-C-1 Test Pit, Archived Composite Samples) -- Samples for the 116-C-1 test pit have been in storage for 6+ months. EPA, as the lead regulatory agency, concurred with appropriately disposing of the samples, as they are not anticipated at this time to be needed for future testing.

Other topics included brief discussion on the plumes discovered at C-5, and this plume chasing impact for completion at 116-B-14, and closeout verification packages for 100 Area sites. EPA stated that they only wanted to receive the closeout packages for review when the cumulative risk information has been added to the report and the package is completely ready for review/signature. BHI will revisit the issue of closeout verification package submittal based on the need of the regulators to view the cumulative risk, and a revised schedule for the upcoming closeout verification packages will be prepared.

6. Re-evaluation of Potential to Emit Air Emissions and Associated Interface with Department of Health -- A handout was provided containing information on a recent 100-B/C and 100-D re-evaluation of potential to emit calculations (Attachments #6 and #7). All parties concurred that BHI would coordinate a meeting on July 7, 1998, with BHI, EOA, Ecology, and DOH to discuss the issue further.

A handout was provided (Attachment #7) that contains a table of details on radionuclides found in the 100-B/C and 100-D Areas (CERCLA activities) and proposed actions regarding the conditions.

100 Area Assessments and Remedial Design

100 Area Remaining Sites

1. Status of Region 10 and Lacy Review of Proposed Plan -- BHI would like to meet with EPA regarding changes that BHI would like to provide input on. A meeting is scheduled for July 14, 1998.
2. Homework Assignment Status -- Proposed Categorization of Pending Sites and Continued Disposition Sites -- It was agreed that sites 126-D-1 and 126-H-1 will be rejected from WIDS, sites 600-30 100-D-7 will be added to the "Confirmation Sampling" category, and site 100-D-9 will be added to the "Other Regulatory Programs" category. Rejection forms for sites 126-D-1 and 126-H-1 were signed at the meeting.

A handout was provided (Attachment #8) on the rejected/reclassified sites in the 100 Areas. Upon reviewing a WIDS printout of the sites, discussion ensued. Ecology asked questions based upon a comparison of the latest WIDS sites and a list from approximately a year ago.

EPA noted that the ROD needs to explicitly cover pipelines. RL indicated that, as discussed during comment resolution for the Remaining Sites during April 1998, the seven pipeline sites in the "Pending" category (100-B-7, 100-C-5, 100-D-50, 100-FR-1, 100-H-28, 100-K-47, and 100-K-60) are to be "plugged-in" to the Remaining Sites ROD after the ROD is completed during FY 1999. The intent to do this is addressed in the FY 1999 DWP (currently in preparation).

3. Appendix C Update -- Discussion ensued on the update to Appendix C. EPA has some comments and changes that still need to be incorporated, and these comments/changes were submitted to BHI at this UMM. BHI has been addressing EPA's comments and is currently going through internal review. BHI anticipates delivering the update to RL within the next week, and then the regulators will be able to review Appendix C again after the changes/comments have been incorporated.

Burial Ground FS Status

1. Status -- BHI anticipates having a draft of the burial ground report ready for regulator and RL review in August 1998.

**REMEDIAL ACTION AND WASTE DISPOSAL
UNIT MANAGERS' MEETING – 200 AREA
June 30, 1998**

Attendees: See Attachment #2b.

Agenda: See Attachment #1b for copy of meeting agenda.

Topics of Discussion:

1. 200-CW-3 200 North Cooling Water Waste Group (Status of Path Forward) -- EPA decided that it would be permissible to address the 200-CW-3 Waste Group as part of the 100 Area Remaining Sites ROD. RL assumes that the 200-CW-3 sites as a waste group would be maintained as part of the Appendix C update, and the ROD will be used to document what happens to the waste group.
2. 200 Area Implementation Plan Status -- The RL review period for the 200 Area Implementation Plan will start July 13, 1998. Although the RL review was expected to start July 6, 1998, additional time was needed to make additional improvements to Chapter 2 RCRA/CERCLA Integration). RL requested that the revised Chapter 2 be sent out for the team to review, followed by a team meeting before the RL review starts. The Tri-Party Agreement milestone delivery date for the Plan is on schedule.
3. 200-CW-1 Gable/B-Pond and Ditches Cooling Waste Waste Group DQO Status -- RL noted that comments were due on the draft DQO workbook. RL anticipates having comments back to BHI by July 2, and Ecology anticipates having comments ready by July 6.
4. 216-B-2-2 Ditch Borehole Characterization Status -- BHI has completed the Borehole Summary Report and transmitted the report to RL. RL will be transmitting the report to Ecology.
5. Hanford Prototype Barrier Monitoring (Expectations for FY 1999) -- A DWP is currently in process outlining details of the workscope for FY 1999. A treatability test report is planned for FY 1999; however, no additional barrier testing and monitoring is being planned. Asphalt testing and a settlement and subsidence study is planned for FY 2000. Within the next month, RL and the regulators will meet on the entire DWP scope for the upcoming fiscal year.

EPA asked about performing a literature search on capping, and RL stated that a literature search was not planned, as extensive information is already available.
6. 200-ZP Groundwater -- No discussion was held on this agenda item, as a meeting will be held on July 6, 1998, to discuss the issues in further detail.

**REMEDIAL ACTION AND WASTE DISPOSAL
UNIT MANAGERS' MEETING – 300 AREA
June 18, 1998**

Attendees: See Attachment #2c.

Agenda: See Attachment #1c for copy of meeting agenda.

Topics of Discussion:

300-FF-1

300 Area Process Trenches

1. Backfill and Regrading Status -- Backfilling of the 300 Area Process Trenches started on June 9, 1998; however, work has been temporarily suspended until backfilling of the ashpits is completed.
2. Documents (Vadose Zone Clean Closure Report; Inspection, Monitoring, and Maintenance Plan/Regrading Plan; and Independent PE Report and Certification -- All documents were submitted and Ecology informally concurred, and Ecology will formally submit a concurrence letter on the closure/post-closure plan. All conditions of clean closure have been met. Ecology plans to issue a letter on the Inspection, Monitoring, and Maintenance Plan. RL is working on the PE certification report, and the report will be submitted to Ecology in mid-July 1998 (within a 60-day time frame).
3. Permit Revisions --
 - *Post-Closure Plan, Modification D:* The modification is on schedule for December 1998, with the public comment period taking place in July 1998. Discussion ensued regarding the permit.
 - *Class 3 to 1, Groundwater:* Significant changes to the groundwater monitoring program will not be included in the Permit Modification. Ecology believes that the minor changes in statistical approach can be handled as a Class 1 change. It was agreed that any other changes will require additional discussion.

Landfill 1D

1. Treatability Variance Status -- Nothing new to report, as EPA is still reviewing. If and when a variance is acted upon, the information may need to be repackaged differently via a more formal request to EPA.
2. Lead Analytical Study -- Lead-contaminated soil at Landfill 1D was discussed. There currently is no budget for treatment of the lead-contaminated soil. Discussion ensued regarding time/expense and the possibility of treating the lead and barium from Burial Ground 618-4 at the same time. BHI will include the barium-contaminated soil in the workscope for FY 1999.

The lead study is currently underway. Basic XRF analysis was conducted on lead-contaminated soil at the site. The same samples were then sent offsite for TCLP analysis, and the results should be back from the laboratory soon. BHI will evaluate and compare the results of the analysis, hoping to discuss the results at the next UMM.

Burial Ground 618-4

1. Drum DQO Status -- The DQO workbook will be ready for review by July 6-7, and a meeting will be held on July 8 to discuss the workbook and to discuss the sampling approach to be used for the drums. Two phases of sampling could possibly be required, depending upon what is discovered after the first round of sampling. Currently, five to six categories of drums exist. A subsequent meeting will be held on July 15, 1998, if necessary.

Landfill 1A

1. Cultural Resources Test Trench -- No cultural artifacts were found during the excavation of the cultural resources test trench at Landfill 1A. Therefore, plans for excavation in FY 1999 will be based on an assumption that there will be no cultural resource delays.

North Process Pond

1. Excavation Status -- The southwest pond quadrant was cleared to the depth of remedial design (there are four quadrants total in the pond, and the southwest was the first of the four). A radiological survey was performed and it was discovered that excavation would have to continued further than the base design. Excavation on the second quadrant was just started. After this quadrant is finished, test pits will be excavated to determine the extent of additional remediation required to meet cleanup levels.
2. UCL Areas (Berms and Scrapings Area Approval) -- Information on the berms and scrapings area was sent to EPA. BHI needs to receive documented concurrence from EPA on the berms. EPA asked if the distribution was normal or lognormal. Immediately following the UMM (the same afternoon), the calculation of distribution was performed and forwarded to EPA. The distribution was identified as lognormal. DOE and EPA then concurred on the berm and scrapings area plan as attached to last month's 300 Area UMM. Signing this set of UMM minutes documents the concurrence.

South Process Pond

1. Excavation Depths -- BHI examined the contamination and design depths of the pond. The excavation will need to be deeper to reach the contamination in some of the berm areas, which will increase the volume in the South Process Pond by about 50 percent (BHI will include this in the DWP). Some engineering issues need to be discussed pertaining to the excavation (e.g., approaching fence lines, power poles, existing site, etc.).

300-FF-2

1. Tri-Party Agreement Milestone Change Notice -- The Tri-Party Agreement Change Control form that proposes to move the submittal date for the FFS and Proposed Plan to November 1999 will be approved at the June IAMET meeting. EPA noted that they would like to ensure that the Proposed Plan is nearing completion by the November submittal date. BHI and RL are planning to see if they can work ahead of this date for completion. The goal is to complete the ROD during the year 2000.
2. Near-Term Planning for FFS/PP -- Discussion ensued on RCRA interfaces with FFS work. BHI is currently working with RL and the regulators on interface and regulatory issues. Disposition on the 67 PNNL sites should be ready by August 1998. BHI is currently talking with contractors about budgets for this year and the upcoming year.

Ecology discussed work in the 300 Area that has been deferred to CERCLA (after review of closure plans and permits). Ecology has developed a list (currently in a preliminary draft format) and will look further into this issue to develop a complete list. Conducting closures uniformly at the operable unit is the intention of this review. Discussion ensued on how this effort fits into the long-range plan for the 300 Area.

A handout was provided (Attachment #9) on the round one groundwater data for FY 1998 for 300-FF-2. Discussion ensued regarding eliminating TPH samples during the next round of sampling. It was agreed that the TPH analyses could be dropped from future sampling event.

STATUS PACKAGE
UNIT MANAGERS' MEETING - JULY 1998
SOURCE OPERABLE UNITS

100-B/C, 100-K, 100-D, 100-H, 100-F

200 AREAS

300 AREA

Prepared by DOE-RL

07/31/98

100 AREAS

100 Area Burial Ground Focused Feasibility

Work continued on the 100 Area Burial Ground Feasibility Study. This feasibility study addresses 45 burial grounds associated with former plutonium reactors in the 100 Areas. Drafts of Sections 1 through 7 will begin ERC internal reviews in August 1998.

100 Area Remaining Sites

Following receipt of informal comments on the Proposed Plan on June 3, 1998, plans have been made to perform necessary document revisions during July and to conduct final reviews by Region 10 and Lacey during August 1998. Subsequent revisions to the AR Document (DOE/RL-94-61, Appendix N) may also be required as a result of changes made to the Proposed Plan. It is anticipated that a 45-day public comment period can begin by the end of FY 1998.

100-D Area Soil Sampling

Laser-induced breakdown spectroscopy (LIBS), an emerging technology for characterizing subsurface soils, had been planned for use in the 100-D Area during FY 1998 to detect chromium in the vadose zone. Deployment, originally scheduled for October 1997, had been delayed several times at the subcontractor's request. The delays were due to technical difficulties that the subcontractor experienced with instrumentation. The inability of the contractor to mobilize the 100-D Area by the end of April 1998 has resulted in abandoning plans to use the LIBS technology. RL is now finalizing a report summarizing characterization work performed during September 1997 at, and in the vicinity of, the 190-D Building in an earlier phase before closing out the project in August 1998.

100-D Ponds Closure Plan Revision

Ecology has incorporated the revised Closure Plan into Modification D to the RCRA Sitewide Permit. Ecology plans to submit Modification D for public review and comment during the summer of 1998. Following public review, the Closure Plan is anticipated to be incorporated into the permit, completing the process of clean closure for the 100-D Ponds.

Partial Deletion of the 100 Area NPL Site for the 100-IU-1 and 100-IU-3 Operable Units

Effective July 8, 1998, the 100-IU-1 (Riverland) and the 100-IU-3 (Wahluke Slope) operable units were removed from the National Priorities List. The notice of partial deletion appears in the *Federal Register*.

Remedial Design Report/Remedial Action Work Plan

Regulatory approval of the Remedial Design Report/Remedial Action Work Plan, Rev. 1, and the 100 Area Sampling and Analysis Plan, Rev. 1, was received on June 29, 1998.

100-B/C Remedial Action

Baseline excavation at the 116-C--5 retention basins is completed. Remedial action excavation work on previously identified lateral vadose plumes is in progress.

EPA and Ecology comments on the 116-C-1 closeout verification package have been received and ERC is in the process of comment resolution and revision, which will address cumulative risk within the main body of the report.

Remedial action excavation at 116-B-11 is ongoing.

Procurement/other activities are ramping up, to begin work on the Group 3 small sites at the 100/B-C Area in the near future. The exact date for the start of remediation is to be determined. These sites include the following: 116-B-9, 116-B-10, 116-B-3, 116-B-2, 116-B-12, 116-B-6A, 116-B-6B, 116-B-16, 116-C-2A, 116-C-2B, and 116-C-2C.

100-DR Remedial Action

Remedial action of overburden and concrete basin construction debris at the 116-D-7 is essentially completed, and closeout sampling activities have commenced. The lateral plumes to the north will be remediated, sampled, and the associated closeout verification process will be included with the effluent pipeline to the north of 116-D-7.

Remedial action excavation at the 116-DR-9 basins is ongoing and will continue through approximately the end of FY 1998 and beyond.

Remedial action excavation around the perimeter of the 1607-D2 septic tank has commenced. The contents of the septic tank will be air dried in place prior to excavation and shipment to ERDF.

Ecology's comments on the 107-D-5 closeout report were received by BHI. Response to Ecology's comments, including evaluation of cumulative risk and a final closeout package, is planned for submittal by the end of FY 1998. Upcoming closeout packages in progress to include the evaluation of cumulative risk include the following: 107-D-1, 107-D-2, and 107-D3 sludge pits, and the 1607-D2 abandoned tile field.

Procurement/other activities are ramping up, to begin remedial action work on the large diameter effluent pipelines from the reactor areas to the effluent disposal trenches and basins. The exact start date for remediation is to be determined.

100-H/-F/-K Remedial Action

Procurement/other activities are in full progress, to begin remedial action work at the 100-H Area Group 4 sites, followed by Group 4 sites at 100-F and 100-K. The target date for Request for Proposals to be sent out is mid-August 1998. The target date for the bid due date is the beginning of October 1998.

100-N Area Remedial Action Decision Documents

The public comment period held for the 100-N Remedial Action Decision Documents ended April 29, 1998. Numerous public comments were received during the comment period and are currently being addressed in coordination between Ecology and DOE.

200 AREAS

200 Area Implementation Plan

The team review of the Draft Implementation Plan was completed June 5, 1998. The Implementation Plan was revised and transmitted to RL for review on July 10, 1998. RL review comments have been received and are in the process of being dispositioned. Following the incorporation of RL comments, the Implementation Plan will be issued for regulator review by August 31, 1998 (TPA Milestone M-13-18).

200-BP-1 Operable Unit

The barrier testing program continues to provide data on water balance (e.g., infiltration, storage, and evapotranspiration) and biointrusion associated with the Hanford Site.

200-CW-1 Operable Unit

The 216-B-2-2 Ditch Borehole Summary Report was finalized as a BHI document and transmitted to RL June 30, 1998. The report was transmitted to Ecology on July 20, 1998. The IDW waste associated with the borehole was disposed of at the ERDF on June 1, 1998.

Data quality objectives (DQOs) are being developed jointly by the ERC, RL, and Ecology to define additional characterization for the 200-CW-1 Operable Unit. The results of the DQO process will support the 200 Area Implementation Plan and the preparation of a work plan for 200-CW-1 next fiscal year. A series of meetings/workshops have been held as part of the DQO development process. An updated DQO workbook was provided to RL and Ecology on June 12, 1998 for review. Following receipt of Ecology's comments, a follow-up DQO workshop is planned to resolve comments and to finalize the DQO workbook.

Nonradioactive Dangerous Waste Landfill (NRDWL)

Ecology issued a letter to RL requiring that a detailed soil and groundwater survey be conducted at NRDWL. A meeting has been scheduled in early August with Ecology to discuss the subject.

300 AREA

300-FF-1 Operable Unit

Process Trenches

Regrading of the process trenches is underway with approximately 6% completed by the end of June. Preparation of the independent engineer's certification of the closure report is well underway and is scheduled for delivery to Benton County and Ecology by July 13, 1998. Communications continue between Ecology and RL to finalize Modification D changes to the Hanford Sitewide RCRA permit. The 300 Area Process Trenches groundwater monitoring schedule and statistical approach for compliance monitoring for Modification D was submitted to Ecology for review.

Landfill 1D

EPA is continuing to evaluate RL's request for a treatability variance for lead-contaminated soils from Landfill 1D.

Burial Ground 618-4

A data quality objectives process and sampling and analysis plan development are well underway to support drum sampling, laboratory analysis, and data evaluation tasks to be completed by late September/early October 1998 for the uranium drums in the burial ground.

North Process Pond

Excavation work in the North Process Pond continued with approximately 30% completed by the end of June 1998. Contamination above the cleanup standard appears to extend deeper than design-cut elevation in the southwest cell of the pond.

300-FF-2 Operable Unit

Approval to eliminate TPH analyses from the sampling at well 699-S6-E4A was obtained at the June 1998 UMM. Sampling of this well is scheduled for early July 1998.

The TPA Change Control form for extension of Milestone M-15-23-B, *Submit the 300-FF-2 Operable Unit Focused Feasibility Study and Proposed Plan for Regulator Review*, was approved at the IAMIT meeting held on June 23, 1998. The new submittal date is November 31, 1999.

Effluent Pipeline Remediation – Close Out and Backfill Strategy

- Remedial Action Scope of Work:
 - Concrete, steel, and cast iron. Diameters from less than 18" up to 66". Invert elevations generally from near surface to 20 feet in depth.
 - Each reactor area (100 BC, D, H, F and K) has on the order of 2,000 to 7,000 linear meters of pipeline.
- Options for Closeout and Backfill strategy are needed to provide maximum flexibility in the field for BHI and Commercial Subcontractor forces, and to complete work in an efficient, safe, and cost effective manner.
- Issues:
 - Length and Duration of open excavation trench (access, safety, etc.)
 - Delay of backfilling/extended Commercial subcontract durations
 - Likelihood of differences/variance in long trench lengths.
- Option for consideration:
 - In reference to the Sampling and Analysis Plan (SAP) and Field Instruction Guide (FIG), utilize the *Primary Decision Unit* (PDU) size concept.
 - Utilizing an example case of a 60" diameter pipeline, 15 feet in depth, 1H: 1V side slopes and using the minimum primary decision unit size of 15,000 ft², the PDU length is on the order of 350feet (about 107m).
 - Prepare minimum analyses in a completed and approved engineering calculation brief, for each PDU, covering:
 - Sampling Location Map
 - Gamma Energy Analyses (GEA) variance (determines number of off-site closeout samples)
 - Closeout Verification Results/Determination of Statistical Values (95th UCL/other)
 - Sum of the Fractions analyses (15mrem/yr evaluation) for Direct Exposure for radionuclides, and direct comparison of MTCA values for Direct Exposure for chemical and metal COCs
 - MTCA 3-point statistical test.
 - Cumulative risk for non-rad COCs via Sum of Fractions.
 - With respect to demonstration of attainment of Groundwater and River RAGs, as the general case, where there is no documented evidence, field observation, or test results indicating significant pipeline, thrust block or junction box breaks and associated effluent leaks, utilize the default deep zone RDR/RAWP vadose zone model and associated soil look-up values, with special consideration where vadose zone has less thickness than the default model.
 - Where there is documented evidence, field observation or testing indicates high contamination, evaluate Groundwater and River RAGs on a case-by-case basis.
 - On completion of engineering calculation brief and documentation of attainment of Direct Exposure, Groundwater and River RAGs, allow backfilling of PDU, at Subcontractor option.
 - Upon completion of all PDU's along a logical grouped pipeline "run" (e.g., from reactor to a main access road, and from the road to the effluent basin, and from effluent basin to outfall), prepare a formalized and detailed, closeout/verification report, which would also include cumulative risk evaluation for rad COCs via RESRAD analyses.
- *A decision/direction is needed on above by the July, 1998 UMM, to incorporate into Detailed Work Plan and Subcontractor planning strategies for FY99.*

**Large Lateral Vadose Zone Plumes and Associated Waste Sites
Close Out and Backfill Strategy**

- At the 100 Area Remedial Action waste sites, at 100 BC, D, H, F and K Areas, there is a potential that relatively large, lateral vadose zone plumes, could be encountered during Remedial Action, approaching the size of PDU's.
- Options for Closeout and Backfill strategy are needed to provide maximum flexibility in the field for BHI and Commercial Subcontractor forces, and to complete work in an efficient, safe, and cost effective manner.
- Issues:
 - Length and Duration of open excavation (access, safety, etc.)
 - Delay of backfilling/extended Commercial Subcontract durations
- Option for consideration:
 - In reference to the Sampling and Analysis Plan (SAP) and Field Instruction Guide (FIG), utilize the *Primary Decision Unit* (PDU) size concept.
 - Where individual lateral plumes of a waste site are less than or equal to the minimum PDU size of 15,000 ft², remediate plume with waste site and include in site closeout and verification report for waste site.
 - Where individual lateral plumes of a waste site are greater than the minimum PDU size of 15,000 ft²:
 - Proceed with testing and prepare closeout and verification package for parent waste site and any associated small plumes ($\leq 15,000$ ft²), technically address parent site as "stand-alone". Reference to associated larger plume, handled technically separately (see below).
 - Allow Subcontractor option to proceed with backfilling of the parent waste site and associated smaller plumes.
 - Remediate larger plume(s) ($>15,000$ ft²) as PDUs.
 - Prepare minimum analyses in a completed and approved engineering calculation brief, for each PDU, covering:
 - Sampling Location Map
 - Gamma Energy Analyses (GEA) variance (determines number of off-site closeout samples)
 - Closeout Verification Results/Determination of Statistical Values (95th UCL/other)
 - Sum of the Fractions analyses (15mrem/yr evaluation) for Direct Exposure for radionuclides, and direct comparison of MTCA values for Direct Exposure for chemical and metal COCs
 - MTCA 3-point statistical test and cumulative risk for rad and non-rad COCs.
 - With respect to demonstration of attainment of Groundwater and River RAGs, utilize same model and approach as for the parent waste site.
 - On completion of engineering calculation brief and documentation of attainment of Direct Exposure, Groundwater and River RAGs, allow backfilling of PDU, at Subcontractor option.
 - Upon completion of all PDU's for a parent waste site, submit a formal revision to the closeout/verification report, including the PDU engineering calculation brief as reference.
- *A decision/direction is needed on above by the July, 1998 UMM, to incorporate into Detailed Work Plan and Subcontractor planning strategies for FY99.*

Inclusion of Unplanned Release (UPR) Sites

- There is a small amount of sites in the UPR category (e.g., UPR 100-D2, 100D-3 and 100D-5 at the 100 DR-1 OU sites, and there could be others) that are not covered in the current ROD/ROD amendment sites, Remaining Sites ROD, or list of sites to be verified as clean. Further, these sites are in immediate proximity to currently planned remedial action waste sites, and some are within plumes.
- Similar to Proximity sites, request concurrence for inclusion in current remedial action via letter to lead Regulatory Agency.

**Deep Vadose Zone Characterization at 100-D
Considerations for 100 H, F, and K Areas in the Future**

- The completed vadose zone test pit at 116-C1/100 BC OU was successful in technically demonstrating that at the high volume/high inventory, unlined effluent site, Groundwater and River RAGs were attained after remediation. Direct use/and application of this data to the balance of the 100 BC-1 OU, Group 1 sites has been established with EPA. Validity of the direct use/application of this data to other OUs is not immediately apparent at this time.
- For the current Detailed Work Plan (DWP) exercise for FY99, FY00 and FY01, deep zone/vadose characterization is being planned for the 100 D Area (targeting 116-DR1/2; and consideration of known effluent pipeline leak areas), via either a vadose zone test pit, or boreholes.
- A scope placeholder in the DWP for vadose characterization is being considered for each of the 100 H, F and K areas.
- In the detailed planning and implementation of the vadose characterization effort at 100 D adequate testing and analysis (including analogous waste site approach) will be performed for the purpose of attempting to utilize the planned 100 D vadose zone characterization data and the 100 BC vadose zone characterization data for 100 H, F and K area, liquid effluent sites.

Other Items

- **116-C-1 Vadose Zone Test Pit, Archived Composite Samples.** It has been more than 6 months since completion of the test pit, and all analyses and reporting are essentially completed. Unless EPA or Ecology takes exception, the archived composite samples will be appropriately disposed of.
- **Waste site plumes extending into other waste sites/pipelines.** Where waste site plumes intersect other waste sites, the analysis will be approached on a case-by-case basis with concurrence from the lead Regulator. For general planning purposes, the analysis and COCs listing will be a combination of both the plume (from the parent waste site) and the waste site.
- **Site Closeout Verification Schedule, Update, Balance of FY98:**
 - Due to logistics of remediating, evaluating and closing out lateral plumes at 116-C5, submittal of the 116-B-14 and 116-C5 closeout and verification packages will probably be deferred to the beginning of FY99 (TBD).
 - 116-C1 Verification Package was submitted to RL on June 19, 1998.
 - Remaining planned submittals to RL for balance of FY 98 are:
 - 107-D1 Sludge Trench (July 17)
 - 107-D3 Sludge Trench (July 31)
 - 1607-D2 Abandoned Tile Field (July 31)
 - 107-D2 Sludge Trench (August 21)
 - Before the end of FY98, it is currently planned to finalize the 107-D5 Verification Package submittal, including response to Ecology comments and the inclusion of cumulative risk analyses for rad and non-rad COCs, per the technical approach agreed to at the June 3, 1998 UMM.

100 B/C AND 100 D AREA AIR MONITORING EVALUATION

- Based on lessons learned from ERDF, re-evaluated potential-to-emit (PTE) for 100 B/C and 100 D.
- BHI evaluated projects with approved NOCs and CERCLA projects with equivalent documentation (e.g., meeting minutes).
- DOH issued a Notice of Violation to RL for noncompliant activities at the 324 Building (PNNL).
- NOV required RL to identify discrepancies between approved Notices of Construction (NOC) and actual work or planned work
- Evaluation of 100 B/C and 100 D Remedial Action Project (see attached) resulted in the following conclusions:
- 100 D/R
 - Application of fixatives documented in project specific form not log book.
 - Ni-63 and Eu-155 identified in soil but not in original inventory.
 - PTE is above original calculation
Original PTE: 3.39E-03
Re-calculated PTE: 7.34E-03 (based on new inventory and original distance/location of maximally exposed individual (MEI).
Proposed PTE: 2.58E-02 (based on new inventory and new MEI consistent with Group 3 & 4)
 - Project will extend beyond 22 months
- 100 B/C
 - Application of fixatives documented in project specific form not log book.
 - Ni-63 identified in soil but not in original inventory.
 - Potential-to-emit (PTE) is less than original calculation, may increase in future
Original PTE: 2.24E-02
Re-calculated PTE: 1.92E-02 (based on new inventory and original distance/location of MEI)
Proposed PTE: 4.1 E-02 (based on new inventory and new MEI consistent with Group 3 & 4)
 - Project will extend beyond 34 months
- Concurrence from EPA and Ecology for BHI to set up a consultation meeting with DOH, EPA, and Ecology.

ATTACHMENT 2 - CERCLA ACTIVITIES

Meeting Minutes	Existing Approval Conditions and Project Description	Current Configuration and Discrepancy	Proposed Action
<p>(100 B/C Remedial Action Project) Meeting Minutes. Meeting held May 23, 1995, May 20, 1996, and November 25, 1997</p>	<p>May 23, 1995 meeting minutes, 116B/C Area CERCLA Presentations: "Additionally, several other analogous "low priority" waste sites in the 100 Area were identified for future ERAs and would require concurrence of BARCT. Ms. Mueller asked if the worst-case-scenario for these low priority sites could be presented instead of presenting each one and that the concurrence for the worst-case would "blanket" the other listed low priority sites. This strategy would reduce redundant regulatory coordination activities and reduce generation of redundant documents. Mr. Conklin agreed with the strategy. Ms. Mueller then briefly discussed the worst-case site, 116-C-2."</p> <p>"The unabated dose for 116-B-4 is 1.25E-04 mrem/yr, for 116-B-5 is 7.68E-04 mrem/yr, 116-C-1 is 4.88E-03 mrem/yr and 116-C-2 is 1.64E-02 mrem/yr."</p> <p>May 20, 1996 meeting minutes, Background: "A Best Available Radionuclide Control Technology (BARCT) Summary was presented (attachment 4). It summarized the key items from the May 23, 1995 meeting with DOH regarding the B/C Area remedial activities, BARCT, and potential air emission calculations."</p> <p>May 20, 1996 meeting minutes, General Strategy for the Remediation Project: "Six waste sites (attachment 7) are scheduled for remediation starting July 1996 and lasting for the next 34 months."</p> <p>November 25, 1997 meeting minutes: "...only recording in the log book when dust control was applied to be used at the Group 1 Remedial Action Site (B/C Area)"</p>	<p>A mid-project evaluation of the air requirements was already underway when the NOV was received. The evaluation conclusions are described below.</p> <p>Due to increased scope of the remedial action, excavation of contaminated soil may extend beyond the project time-frame used in the potential-to-emit calculation. As excavation continues, the additional volume could result in an increase in the potential-to-emit airborne radionuclides and a revised estimate is required. The activities are currently below the existing potential-to-emit calculations.</p> <p>Ni-63 has been identified in soil samples from the 100 B/C excavation activities. Ni-63 was not included in the original potential-to-emit calculations.</p> <p>The application of fixatives is currently being documented in a project specific form as a substitution to the log book entry.</p>	<p>Prepare a revised potential-to-emit and schedule a consultation with DOH through EPA, the lead regulatory agency. The potential-to-emit calculation will be prepared consistent with the methodology for Group 3 and 4 remedial actions.</p>

Meeting Minutes	Existing Approval Conditions and Project Description	Current Configuration and Discrepancy	Proposed Action
<p>(100 D Remedial Action Project) Meeting Minutes. meetings held September 19, 1996 and November 25, 1997 AIR 98-204</p>	<p>September 19, 1996 meeting minutes: "The time frame basis for his calculations was based on a schedule of 22 months of excavation. The potential unabated offsite dose was calculated to be 3.39E-03 mrem/yr."</p> <hr/> <p>AIR 98-204: "WDOH is requesting that the Group 2 Remedial Action Site follow the same guidelines and requirements for application of dust control as those used for Group 1,3, and 4 as approved in the November 25, 1997 meeting mentioned above".</p> <p>November 25, 1997 meeting minutes: "...only recording in the log book when dust control was applied to be used at the Group 1 Remedial action Site (B/C Area)".</p>	<p>A mid-project evaluation of the air requirements was already underway when the NOV was received. The evaluation conclusions are described below.</p> <p>The volumes and activity levels of contaminated soil associated with this remedial action are greater than anticipated and the potential-to-emit radionuclides based on the inventory excavated to date is above the estimated potential-to-emit. The project duration will also extend beyond 22 months.</p> <p>Ni-63 and Eu-155 have been identified in soil samples from the 100 D/R excavation activities. These isotopes were not identified in the original potential-to-emit calculations.</p> <hr/> <p>The application of fixatives is currently being documented in a project specific form as a substitution to the log book entry.</p>	<p>Prepare a revised potential-to-emit and schedule a consultation with DOH through Ecology, the lead regulatory agency. The potential-to-emit calculation will be prepared consistent with the methodology for Group 3 and 4 remedial actions.</p>

Rejected and Reclassified Rejected Sites in the 100 Areas (6/25/1998)

Operable Unit	Site Code	Site Names	Site Type	Classification Status	DOE Approver	Date	Lead Agency Approver	Date
100-BC-1	100-B-4	100-B-4, Building Foundation, Undocumented Solid Waste Site	Spoils Pile/Berm	Classification - Rejected	N. A. Werdel	9/9/97	D. A. Faulk	9/9/97
100-BC-1	126-B-4	126-B-4, B Area Brine and Salt Dilution Pits, 126-B-4 Brine Pit. 184-B Salt Dissolving Pit and Brine Pump House	Sump	Reclassification - Rejected	N. A. Werdel	9/9/97	D. A. Faulk	9/9/97
100-BC-1	128-B-1	128-B-1, 100 B/C Burning Pit, 100-B Burning Pit	Burn Pit	Classification - Rejected	N. A. Werdel	9/9/97	D. A. Faulk	9/9/97
100-BC-1	600-34	600-34, 100-B Baled Tumbleweed Disposal Site	Dumping Area	Reclassification - Rejected	N. A. Werdel	9/9/97	D. A. Faulk	9/9/97
100-BC-1	600-56	600-56, Pre-Hanford Farm Site, Undocumented Solid Waste Site	Dumping Area	Reclassification - Rejected	N. A. Werdel	9/9/97	D. A. Faulk	9/9/97
100-BC-2	100-C-2	100-C-2, Possible Building Foundation and Parking Lot, Monitoring Station 1614-B-1	Foundation	Classification - Rejected	N. A. Werdel	9/9/97	D. A. Faulk	9/9/97
100-BC-2	100-C-4	100-C-4, Export Water Line Valve Pit	Valve Pit	Classification - Rejected	N. A. Werdel	9/9/97	D. A. Faulk	9/9/97
100-BC-2	124-C-4	124-C-4, Sanitary Waste Site	Sanitary Sewer	Classification - Rejected	N. A. Werdel	9/9/97	D. A. Faulk	9/9/97
100-DR-1	100-D-10	100-D-10, Storm Drain Outfall, Undocumented Liquid Waste Site	Depression/Pit (nonspecific)	Classification - Rejected	G. I. Goldberg	8/27/97	K. K. Holliday	8/27/97
100-DR-1	100-D-26	100-D-26, Borrow Pit, Potential Burial Trenches	Depression/Pit (nonspecific)	Classification - Rejected	G. I. Goldberg	8/27/97	K. K. Holliday	8/27/97
100-DR-1	100-D-34	100-D-34, 100-D/DR Grounds Surrounding Deactivated Areas, Exclusion Area	Unplanned Release	Classification - Rejected	G. I. Goldberg	8/27/97	K. K. Holliday	8/27/97
100-DR-1	100-D-38	100-D-38, Suspect Septic Tank	Septic Tank	Classification - Rejected	G. I. Goldberg	8/27/97	K. K. Holliday	8/27/97
100-DR-1	126-D-3	126-D-3, D Area Brine and Salt Dilution Pits, 184-D Salt Dissolving Pit and Brine Pump House	Sump	Reclassification - Rejected	G. I. Goldberg	10/2/97	K. K. Holliday	8/27/97
100-DR-2	100-D-11	100-D-11, Temporary Garage and Gasoline Dispensing Station, Temporary Garage TC-21	Unplanned Release	Classification - Rejected	G. I. Goldberg	8/27/97	K. K. Holliday	8/27/97
100-DR-2	100-D-17	100-D-17, Burn Pit, Undocumented Solid Waste Site	Burn Pit	Reclassification - Rejected	G. I. Goldberg	8/27/97	K. K. Holliday	8/27/97

Rejected and Reclassified Rejected Sites in the 100 Areas (6/25/1998)

Operable Unit	Site Code	Site Names	Site Type	Classification Status	DOE Approver	Date	Lead Agency Approver	Date
100-DR-2	100-D-36	100-D-36, Undocumented Concrete Pad, Monitoring Station 1614-D-1, 100-N-20	Foundation	Classification - Rejected	G. I. Goldberg	8/27/97	K. K. Holliday	8/27/97
100-DR-2	100-D-37	100-D-37, Undocumented Concrete Pad, 1614-D-3 Monitoring Station	Foundation	Classification - Rejected	G. I. Goldberg	8/27/97	K. K. Holliday	8/27/97
100-FR-1	100-F-5	100-F-5, 1717-F Building Drywell	French Drain	Reclassification - Rejected	G. I. Goldberg	7/29/97	P. S. Innis	7/29/97
100-FR-1	100-F-6	100-F-6, 1716 FA Fuel Tank and Pump	Storage Tank	Classification - Rejected	G. I. Goldberg	7/29/97	P. S. Innis	7/29/97
100-FR-1	100-F-8	100-F-8, French Drains Near 105-F Gate	French Drain	Reclassification - Rejected	G. I. Goldberg	7/29/97	P. S. Innis	7/29/97
100-FR-1	100-F-17	100-F-17, 108-F Chemical Pump House, Chemical Storage Tanks at 108-F, Chemicals Used at 108-F Building	Storage Tank	Classification - Rejected	G. I. Goldberg	7/29/97	P. S. Innis	7/29/97
100-FR-1	100-F-21	100-F-21, Grounds Surrounding Deactivated Areas, Exclusion Area	Unplanned Release	Classification - Rejected	G. I. Goldberg	7/29/97	P. S. Innis	7/29/97
100-FR-1	100-F-30	100-F-30, 144-F Drywell	French Drain	Classification - Rejected	G. I. Goldberg	7/29/97	P. S. Innis	7/29/97
100-FR-1	100-F-32	100-F-32, 1717-F Underground Fuel Oil Tanks	Storage Tank	Classification - Rejected	G. I. Goldberg	7/29/97	P. S. Innis	7/29/97
100-FR-1	116-F-13	116-F-13, 1705-F Experimental Garden French Drain	French Drain	Classification - Rejected	G. I. Goldberg	7/29/97	P. S. Innis	7/29/97
100-FR-1	132-F-2	132-F-2, 132-F-2 Inhalation Laboratory, 144-F, 144-FB	Laboratory	Classification - Rejected	G. I. Goldberg	7/29/97	P. S. Innis	7/29/97
100-FR-2	100-F-1	100-F-1, 100-FR-2 Depression	Depression/Pit (nonspecific)	Classification - Rejected	G. I. Goldberg	7/29/97	P. S. Innis	7/29/97
100-FR-2	600-31	600-31, 100-F Area Bottle Disposal Site	Dumping Area	Reclassification - Rejected	G. I. Goldberg	7/29/97	P. S. Innis	7/29/97
100-HR-1	100-H-6	100-H-6, Suspect Waste Site: Contaminated Ramp	Unplanned Release	Classification - Rejected	G. I. Goldberg	8/8/97	W. W. Soper	8/8/97
100-HR-1	100-H-18	100-H-18, Undocumented Unplanned Airborne Release: Stack Emission No.1	Unplanned Release	Classification - Rejected	G. I. Goldberg	8/8/97	W. W. Soper	8/8/97
100-HR-1	100-H-19	100-H-19, Undocumented Unplanned Airborne Release: Stack Emission No.2	Unplanned Release	Classification - Rejected	G. I. Goldberg	8/8/97	W. W. Soper	8/8/97

Rejected and Reclassified Rejected Sites in the 100 Areas (6/25/1998)

Operable Unit	Site Code	Site Names	Site Type	Classification Status	DOE Approver	Date	Lead Agency Approver	Date
100-HR-1	100-H-20	100-H-20, Undocumented Unplanned Release: Swallow Nests and Droppings	Unplanned Release	Classification - Rejected	G. I. Goldberg	8/8/97	W. W. Soper	8/8/97
100-HR-1	100-H-26	100-H-26, Grounds Surrounding Deactivated Areas, Exclusion Area	Unplanned Release	Classification - Rejected	G. I. Goldberg	8/8/97	W. W. Soper	8/8/97
100-HR-2	100-H-15	100-H-15, Possible Septic Tank & Tile Field, 100-H-25	Septic Tank	Classification - Rejected	G. I. Goldberg	8/8/97	W. W. Soper	8/8/97
100-HR-2	100-H-16	100-H-16, 184-H Salt Dissolving Pit and Brine Pump House, H Area Power House Brine Pit, 184-H Brine Pit	Sump	Reclassification - Rejected	G. I. Goldbreg	8/11/97	W. W. Soper	8/12/97
100-HR-2	100-H-27	100-H-27, 100-H Area Patrol Headquarters Storm Runoff Ditch	Ditch	Classification - Rejected	G. I. Goldberg	8/8/97	W. W. Soper	8/8/97
100-IU-1	600-140	600-140, Gunny Sacks south of H-70 Antiaircraft Site	Dumping Area	Classification - Rejected	G. I. Goldberg	1/26/98	D. A. Faulk	1/27/98
100-IU-1	600-141	600-141, Barrels South of H-70 Antiaircraft Site	Dumping Area	Classification - Rejected	G. I. Goldberg	1/26/98	D. A. Faulk	1/27/98
100-IU-1	600-142	600-142, Car Body at McGee Ranch Fish Farm	Dumping Area	Reclassification - Rejected	G. I. Goldberg	2/6/98	D. A. Faulk	2/9/98
100-IU-1	600-143	600-143, Car body at Ford Well	Dumping Area	Classification - Rejected	G. I. Goldberg	1/26/98	D. A. Faulk	1/27/98
100-IU-1	600-144	600-144, Car Body near top of Umptanum Ridge	Dumping Area	Classification - Rejected	G. I. Goldberg	1/26/98	D. A. Faulk	1/27/98
100-IU-2	600-121	600-121, White Bluffs Coal Ash Piles, Coal Ash Piles	Dumping Area	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-122	600-122, White Bluffs Large Fenced Depression	Depression/Pit (nonspecific)	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-123	600-123, White Bluffs Farm Site, Farm Site	Dumping Area	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-126	600-126, White Bluffs Small Subsidence, Small Subsidence	Depression/Pit (nonspecific)	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-130	600-130, American Pipe Company Facilities, Stephensen's Cement Pipe Factory	Fabrication Shop	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97

Rejected and Reclassified Rejected Sites in the 100 Areas (6/25/1998)

Operable Unit	Site Code	Site Names	Site Type	Classification Status	DOE Approver	Date	Lead Agency Approver	Date
100-IU-2	600-135	600-135, White Bluffs Spare Parts Machine Shop Landfill and Pit, Spare Parts Machine Shop Landfill, Horseshoe Pit	Burial Ground	Reclassification - Rejected	G. I. Goldberg	1/26/98	L. E. Gadbois	1/22/98
100-IU-2	600-136	600-136, White Bluffs Insulation Warehouses, Insulation Warehouses	Storage	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-138	600-138, White Bluffs Fumigation Building, Fumigation Chamber Building	Maintenance Shop	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-157	600-157, White Bluffs Concrete Foundation Pads	Foundation	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-158	600-158, White Bluffs Ground Storage Tank and Booster Pump Station	Storage Tank	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-159	600-159, White Bluffs Bank Well	Pump Station	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-160	600-160, White Bluffs Irrigation Debris	Dumping Area	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-161	600-161, White Bluffs Plumbing Debris	Dumping Area	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-162	600-162, White Bluffs Pipe Debris and Bucket of Lead	Dumping Area	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-163	600-163, White Bluffs Pipe Testing Shop	Laboratory	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-164	600-164, White Bluffs Earth Berm and Trench	Trench	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-165	600-165, White Bluffs Valve Box	Valve Pit	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-166	600-166, White Bluffs Subsidence	Depression/Pit (nonspecific)	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-167	600-167, White Bluffs Cistern	Catch Tank	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-170	600-170, White Bluffs Subsurface Concrete Structure	Sump	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-171	600-171, White Bluffs Townsite	Office	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-172	600-172, White Bluffs French Drain or Dry Well	French Drain	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97

Rejected and Reclassified Rejected Sites in the 100 Areas (6/25/1998)

Operable Unit	Site Code	Site Names	Site Type	Classification Status	DOE Approver	Date	Lead Agency Approver	Date
100-IU-2	600-173	600-173, White Bluffs Domestic Debris Dump and Building Foundations	Dumping Area	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-174	600-174, White Bluffs French Drain	French Drain	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-175	600-175, Original Priest Rapids Ice House Drain Field	Drain/Tile Field	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-177	600-177, White Bluffs Pipe Bender and Equipment Dumping Area	Dumping Area	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-179	600-179, Priest Rapids Ice House	Burial Ground	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-180	600-180, White Bluffs Suspect Automotive Repair Shop	Maintenance Shop	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-183	600-183, White Bluffs Burn Pile and Debris	Dumping Area	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-184	600-184, White Bluffs Townsite Septic System	Septic Tank	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-189	600-189, White Bluffs Warehouse Facility French Drains, 100-H-23	French Drain	Reclassification - Rejected	G. I. Goldberg	1/26/98	L. E. Gadbois	1/22/98
100-IU-2	600-193	600-193, White Bluffs Gas Station	Storage Tank	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-194	600-194, White Bluffs Main Pipe Fabrication Shop, Main Pipe Fabrication and Blacksmith Shop	Fabrication Shop	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-195	600-195, White Bluffs Townsite Electrical Substation	Electrical Substation	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-196	600-196, White Bluffs Farm Dump Site and Partially Backfilled Pit	Dumping Area	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-198	600-198, White Bluffs River Bank Concrete Structure, RCRA General Inspection LORIVFY96 Item #2	Foundation	Classification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-199	600-199, White Bluffs Ash Covered Concrete Pad	Dumping Area	Reclassification - Rejected	G. I. Goldberg	2/18/98	L. E. Gadbois	3/11/98
100-IU-2	600-200	600-200, Priest Rapids Ice House Septic Tank	Septic Tank	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-203	600-203, White Bluffs French Drains	French Drain	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-2	600-209	600-209, White Bluffs Excess Railroad Tie Materials	Dumping Area	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97

Rejected and Reclassified Rejected Sites in the 100 Areas (6/25/1998)

Operable Unit	Site Code	Site Names	Site Type	Classification Status	DOE Approver	Date	Lead Agency Approver	Date
100-IU-3	600-154	600-154, Remains of Windmill, RCRA General Inspection HIRIV-FY96 Item #6	Dumping Area	Classification - Rejected	G. I. Goldberg	1/26/98	J. W. Donnelly	1/27/98
100-IU-3	600-229	600-229, RCRA General Inspection 200WFY97 Item #21 Historic Disposal Site, Dumping Area Near White Bluffs Ferry Landing (East Side)	Dumping Area	Classification - Rejected	G. I. Goldberg	1/26/98	J. W. Donnelly	1/27/98
100-IU-6	600-20	600-20, Tank Cleaning Site, 615 Hot Mix Plant For Road Materials	Depression/Pit (nonspecific)	Reclassification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-IU-6	600-24	600-24, West P-11, H-21 Anti-Aircraft Artillery Compound and Dump Site	Dumping Area	Reclassification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-IU-6	600-26	600-26, Hanford Townsite Burn Pile	Dumping Area	Reclassification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-IU-6	600-27	600-27, Well DC-6, Well 699-50-18C, 6-54-18A, A8855; 6-54-18B, A8856; 6-54-18C, A8857; 6-54-18D, A58858, Water Supply Valve Pits, Foundations and Dumping Area	Dumping Area	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-6	600-50	600-50, Hanford Construction Camp Coal Yard	Depression/Pit (nonspecific)	Reclassification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-IU-6	600-168	600-168, Buckholdt Ranch Toilet Pits, Herriford Ranch Toilet Pits	Depression/Pit (nonspecific)	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-IU-6	600-169	600-169, Hanford Construction Camp Trenches	Trench	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-IU-6	600-185	600-185, Hanford Construction Camp Honey Dump Site	Trench	Reclassification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-IU-6	600-192	600-192, Hanford Construction Camp Fumigation Chamber	Maintenance Shop	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-IU-6	600-206	600-206, 101 Building Graphite Dump Site	Burial Ground	Reclassification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-IU-6	600-207	600-207, Hanford Construction Camp Powerhouse Ash Pile	Dumping Area	Reclassification - Rejected	G. I. Goldberg	10/6/97	L. E. Gadbois	10/6/97
100-IU-6	UPR-600-18	UPR-600-18, Tank Truck Gasoline Spill, UN-600-18	Unplanned Release	Reclassification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-IU-6	UPR-600-19	UPR-600-19, Lime Sulfur Barrel	Unplanned Release	Reclassification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97

Rejected and Reclassified Rejected Sites in the 100 Areas (6/25/1998)

Operable Unit	Site Code	Site Names	Site Type	Classification Status	DOE Approver	Date	Lead Agency Approver	Date
100-KR-2	100-K-7	100-K-7, 165-KE Ethylene Glycol Tanks, 165-KE-E and 165-KE-W	Storage Tank	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-KR-2	100-K-8	100-K-8, 165-KW Ethylene Glycol Tanks, 165-KW-E and 165-KW-W	Storage Tank	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-KR-2	100-K-9	100-K-9, 118-KE-2 French Drain (North), 104-K Dry Well	French Drain	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-KR-2	100-K-10	100-K-10, 118-KE-2 French Drain (South), 104-K Dry Well	French Drain	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-KR-2	100-K-11	100-K-11, 118-KW-2 French Drain (North), 104-K Dry Well	French Drain	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-KR-2	100-K-12	100-K-12, 118-KW-2 French Drain (South), 104-K Dry Well	French Drain	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-KR-2	100-K-39	100-K-39, 118-K-3 Filter Crib	Crib	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-KR-2	100-K-44	100-K-44, Grounds Surrounding Deactivated Areas, Exclusion Area	Unplanned Release	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-KR-2	100-K-52	100-K-52, 1706-KE Wet Fish Studies Laboratory	Storage	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-KR-2	130-K-1	130-K-1, 1717-K Gasoline Storage Tank	Storage Tank	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-KR-2	130-K-3	130-K-3, 182-K Emergency Diesel Oil Storage Tank, 130-K-3A and 130-K-3B	Storage Tank	Classification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-KR-2	600-4	600-4, Howitzer Site	Dumping Area	Reclassification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97
100-KR-2	600-55	600-55, Paved Area and Collapsed Structure	Dumping Area	Reclassification - Rejected	G. I. Goldberg	10/1/97	L. E. Gadbois	10/1/97



058925

Job No. 22192
 Western Response Agreement No. 1
 Class: CCM- M-A
 CUJ 300-FF-2
 TSD: M-A
 ERA: M-A
 Subject Code: 0100, 0106

MAY 28 1998

U.S. Department of Energy
 Richland Operations Office
 O. C. Robertson, Senior Project Manager
 Remedial Actions Project
 P.O. Box 550, MSIN H0-12
 Richland, Washington 99352

RECEIVED

MAY 28 1998
 DOE-RL/DIS

Subject: Contract No. DE-AC06-93RL12367
**ROUND ONE GROUNDWATER DATA FOR FISCAL YEAR 1998 FOR THE
 300-FF-2 OPERABLE UNIT**

Dear Mr Robertson:

Since issuance of the Limited Field Investigation Report for the 300-FF-2 Operable Unit (DOE/RL-96-42) in April 1997, three additional rounds of groundwater sampling have been completed. This work was performed in response to recommendations provided in Section 8.3 of that report, with concurrence from the U.S. Department of Energy, Richland Operations Office and the regulators.

As outlined in the scope of work for fiscal year (FY) 1998, Attachment 1 presents the results of the first round of sampling, along with the results from the fiscal year 1997 sampling for comparison. Data for FY 1997 was previously discussed at the October 1997 unit managers' meeting (UMM). Based on the results received to date and discussions held at several past UMMs, it is proposed that the Total Petroleum Hydrocarbon analyses (TPH, WTPH-G, and WTPH-D) be eliminated from future sampling events. A revised Sampling and Analysis Plan for fiscal year 1998 is provided as Attachment 2 to reflect this modification.

It is Bechtel Hanford, Inc.'s recommendation that this information be discussed with the regulators at the June 1998 UMM so that the modifications can be put in place for the next round of sampling scheduled for early July.

O. C. Robertson
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MAY 28 1998

If you have any questions, please contact Mr. C. E. Corriveau at 372-9565.

Sincerely,



V. R. Dronen, Project Manager
Remedial Action and Waste Disposal Project

LCH:tlr

cc: R. G. McLeod (RL) H0-12, w/a

Attachments: (1) Draft Groundwater Sample Analysis Data for January 1998
(2) Revised FY98 Groundwater Sampling Plan

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O. C. Robertson
Page 3

MAY 28 1998

Letter Subject Round One Groundwater Data for Fiscal Year 1998 for the 300-FF-2 Operable Unit to O. C. Robertson, RL, from V. R. Dronen, BHI.

bcc:

C. E. Corriveau H0-17, w/o
V. R. Dronen H0-17, w/o
M. C. Hughes H0-14, w/o
L. C. Hulstrom H9-03, w/o
Document and Info Services H0-09, w/a

CONCURRENCES

DATE	5/28/98	5/28/98
INITIALS	LCH ych	CEC [Signature]

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ATTACHMENT 1

Draft Groundwater Sample Analysis Data for January, 1998

Table 1. Summary of Groundwater Sample Results from
Well 699-S6-E4A in the 300-FF-2 Operable Unit.

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Analyte	Units	28-Sep-95	3-Apr-96	19-Sep-96	27-Sep-96	23-Jan-97	25-Jun-97	28-Jan-98
Gross Alpha	pCi/L	319 ^a	N/A	14.8 ± 3.3	8.49 ± 2.3	73.1 ± 12.0	112.0 ± 19.0	37.4 ± 7.7
Gross Beta	pCi/L	258 ^a	N/A	30.7 ± 4.1	20.8 ± 3.3	39.3 ± 4.9	49.7 ± 5.9	26.1 ± 4.5
Uranium (total)	ug/L	768 ^a	108	35.4 ± 7.8	27.0 ± 3.7	165.0 ± 22.0	224.0 ± 50.0	73.4 ± 16.0
Unknown VOA	ug/L	3200J ^b	10J	41J	—	—	—	51J
Unknown C13H28	ug/L	—	—	33J	—	—	—	—
Decane	ug/L	770J	—	—	—	—	—	—
Undecane	ug/L	1800J	—	—	—	—	—	—
Dodecane	ug/L	1800J	19J	—	—	—	—	—
Unknown alkane	ug/L	1800J	43J	—	—	—	—	—
Unknown Semi-VOA	ug/L	N/A	49	8J	9J	19J	86J	—
Aniline	ug/L	N/A	—	—	41JN ^c	2000JN	—	—
Tributyl Phosphate	ug/L	N/A	65	8J	1500D ^d	700D	420D	540D
Octathiocane	ug/L	N/A	19J	—	—	—	—	—
Pentadecane	ug/L	N/A	15J	—	—	—	—	—
Tetradecane	ug/L	N/A	34J	—	—	—	—	—
Tridecane	ug/L	N/A	30J	—	—	—	—	—
TPH	mg/L	104	3.38	0.81	N/A	0.5U	0.476U	0.485U
Gasoline (WTPH-G)	mg/L	0.39	0.1U	0.1U	N/A	0.1U	0.1U	0.1U
Diesel (WTPH-D)	mg/L	5U	2.7U	0.5U	N/A	0.61U	0.5U	0.5U

^a Based on unfiltered data - no filtered data was available.

^b J indicates an estimated value.

^c JN indicates presumptive evidence of a compound at an estimated value.

^d D indicates the analysis was performed at a dilution factor other than the primary (secondary or greater).

— Tentatively Identified Compounds (TICs) not detected during this analysis.

N/A = not analyzed.

**Table 2. Summary of Groundwater Sample Results from
Well 699-13-3A in the 300-FF-2 Operable Unit.**

Analyte	Units	23-Sep-95	22-Mar-96	23-Jan-97	22-Jan-98
Gross Alpha	pCi/L	5.4	8.0	5.0	7.59
Gross Beta	pCi/L	14.4	19.3	17.6	25.0
Uranium (total)	ug/L	8.49	9.6	8.9	8.89

Table 3. Groundwater Monitoring Data for Wells 699-S6-E4A and 699-13-3A.

Location: Sample Number: Laboratory: Collection Date:	699-13-3A				699-S6-E4A					
	BOKDX4	BOKDX5	BOMX66	BOMX87	BOKDX6	BOKDX7	BOL526	BOL527	BOMX88	BOMX91
	Quanta Unfiltered 1/23/97	Quanta Filtered 1/23/97	Quanta Unfiltered 1/22/98	Quanta Filtered 1/22/98	Quanta Unfiltered 1/23/97	Quanta Filtered 1/23/97	Quanta Unfiltered 6/25/97	Quanta Filtered 6/25/97	Quanta Unfiltered 1/22/98	Quanta Filtered 1/22/98
Radionuclides (pCi/L)										
Americium-241	NA	NA	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cesium-137	1.06	NA	NA	NA	-3.89U	NA	-1.51U	NA	1.00U	NA
Cobalt-58	0.75	NA	NA	NA	3.05U	NA	NA	NA	NA	NA
Cobalt-60	0.29	NA	NA	NA	1.74	NA	-4.53U	NA	3.78U	NA
Europium-152	-14.2U	NA	NA	NA	-4.33U	NA	-0.34U	NA	-7.58U	NA
Europium-154	-5.5U	NA	NA	NA	-4.72U	NA	-13.8U	NA	5.51U	NA
Europium-155	13.4	NA	NA	NA	-1.08U	NA	10.3	NA	2.54U	NA
Gross Alpha	6.94	NA	7.89	N/A	73.1	NA	112.9	NA	37.4	NA
Gross Beta	17.8	NA	28.0	NA	39.3	NA	49.7	NA	28.1	NA
Iron-59	-8.18U	NA	NA	NA	5.15	NA	NA	NA	NA	NA
Plutonium-238	NA	NA								
Plutonium-239/240	NA	NA								
Potassium-40	NA	NA								
Strontium-89	NA	NA								
Strontium-90	NA	NA								
Technetium-99	NA	NA								
Uranium (ug/L)	8.87	NA	8.89	N/A	186.0	NA	226.0	NA	73.4	NA
Inorganics (ug/L)										
Aluminum	331	33.6U	65.48	31.3U	33.6U	33.8U	56.28	1898	33.28	31.3U
Antimony	48.1	48.1U	42.9U	42.9U	48.1U	48.1U	42.9U	42.9U	42.4U	42.9U
Arsenic	NA	NA								
Barium	48.88	66.38	70.78	73.88	52.48	56.4U	58.48	58.18	51.88	52.08
Beryllium	0.3U	0.3U	0.4U	0.4U	0.30U	0.30U	0.48U	0.48	0.4U	0.4U
Cadmium	3.0U	3.0U	3.3U	4.98	3.0U	3.0U	2.8U	2.8U	3.3U	3.3U
Calcium	58300	59600	63500	69100	51200	54000	59800	56300	58000	58200
Chromium	8.88	4.38	6.48	2.7U	7.88	6.18	4.68	3.98	4.88	4.28
Cobalt	3.8U	3.8U	4.3U	4.3U	3.8U	3.8U	4U	4U	4.3U	4.3U
Copper	9.48	3.7U	12.28	7.58	10.08	9.48	10.18	7.38	8.88	10.88
Iron	283	36.88	170	45.38	58.08	51.08	201	256	188	130
Lead	NA	NA								
Magnesium	14300	14700	14800	15800	13600	14100	14600	15000	14600	14800
Manganese	49.2	22.3	10.88	5.78	29.9	31.3	38.8	38.8	21.0	18.0
Mercury	NA	NA								
Nickel	9.2U	8.2U	14.8U	14.8U	9.2U	9.2U	14.8U	14.8U	14.8U	14.8U
Potassium	7180	6830	6080	6320	6240	7460	7200	5700	7880	5030
Selenium	NA	NA								
Silver	4.8U	4.8U	6.0U	6.0U	4.8U	4.8U	6.7U	6.88U	6.0U	6.0U
Sodium	18400	18500	18100	19400	24100	24800	24800	25000	24800	24800
Thallium	NA	NA								
Vanadium	18.68	19.88	9.88	11.08	17.08	23.88	21.48	20.08	15.88	14.88
Zinc	39.2E	27.4E	12.78	13.08	184E	118E	264E	103E	88.4	75.9
Wet Chemistry (mg/L)										
Chloride	N/A	N/A								
Cyanide	NA	NA								
Fluoride	NA	NA								
Gasoline (WTPH-G)	NA	NA	NA	NA	0.1U	NA	0.1U	NA	0.1U	NA
Nitrogen in Nitrate	NA	NA								
Nitrogen in Nitrite	NA	NA								
Phosphate-P	NA	NA								
Phosphorus	NA	NA								
Diesel Oil (WTPH-D)	NA	NA	NA	NA	0.51U	NA	0.5U	NA	0.5U	NA
Total Petroleum Hydrocarbons	NA	NA	NA	N/A	0.5U	NA	0.476U	NA	0.465U	NA
Field Measurements										
Conductivity (umhos/cm)	487	487	500	500	493	493	497	497	500.0	500.0
Dissolved Oxygen (mg/L)	5.54	5.54	6.08	6.05	6.49	6.49	7.34	7.34	6.4	6.4
pH Measurement (pH)	7.37	7.37	7.58	7.58	7.47	7.47	7.87	7.87	7.8	7.8
Temperature (Deg C)	17.8	17.8	16.4	16.4	17.1	17.1	19.3	19.3	14.9	14.9
Turbidity (NTU)	4.9	4.9	3.1	3.1	2.1	2.1	5.0	5.0	4.9	4.9

U = Value less than the Required Detection Limit, but greater than or equal to the IDL.
 E = The result for the entire dilution was greater than the control limit.
 H = The matrix spike recovery results were outside the 85 to 120 % limit.
 NA = Not analyzed.
 Negative Radionuclide Results = Radioactive results are measured in counts decayed per minute. A background subtraction is applied, which may be more than the sample, therefore a negative result.
 U = Analyzed for but not detected.

Table 4. Groundwater Monitoring Data for Well 699-S6-E4A: Volatile Organics.

Location: Sample Number Laboratory Collection Date	699-S6-E4A			Trp Blank	Trp Blank
	BOMX8 Quarters Unfiltered 1/23/97	BOL525 Quarters Unfiltered 6/23/97	BOMX88 Quarters Unfiltered 1/22/98	BOMX8 Quarters - 1/23/97	BOMX88 Quarters - 1/22/98
VOA (ug/L)					
1,1,1-Trichloroethane	SU	SU	SU	SU	SU
1,1,1-Trichloroethene	SU	SU	SU	SU	SU
1,1,2,2-Tetrachloroethane	SU	SU	SU	SU	SU
1,1,2-Trichloroethane	SU	SU	SU	SU	SU
1,1-Dichloroethane	SU	SU	SU	SU	SU
1,1-Dichloroethene	SU	SU	SU	SU	SU
1,2,3-Trichloropropane	SU	SU	SU	SU	SU
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	10U	10U	10U	10U	10U
1,2-Dibromoethane	SU	SU	SU	SU	SU
1,2-Dichloroethane	SU	SU	SU	SU	SU
1,2-Dichloroethene	NA	NA	NA	NA	NA
1,2-Dichloropropane	SU	SU	SU	SU	SU
1,3-Dichlorobenzene	NP	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA
1,4-Dioxane	500U	500U	500U	500U	500U
2-Butanone	20U	20U	20U	20U	20U
2-Chloro-1,3-Butadiene	SU	SU	SU	SU	SU
2-Hexanone	20U	20U	20U	20U	20U
4-Methyl-2-Pentanone	20U	20U	20U	20U	20U
Acetone	175U	20U	88U	20U	135U
Acetonitrile	100U	100U	100U	100U	94U
Acrylonitrile	100U	100U	100U	100U	100U
Adiponitrile	10U	10U	10U	10U	10U
Benzene	SU	SU	SU	SU	SU
Bromochloromethane	SU	SU	SU	SU	SU
Bromofrom	SU	SU	SU	SU	SU
Bromomethane	10U	10U	10U	10U	10U
Carbon disulfide	SU	SU	SU	SU	SU
Carbon tetrachloride	SU	SU	SU	SU	SU
Chlorobenzene	SU	SU	SU	SU	SU
Chlorobromomethane	NA	NA	NA	NA	NA
Chloroethane	10U	10U	10U	10U	10U
Chloroform	SU	SU	SU	SU	SU
Chloromethane	10U	10U	10U	10U	10U
Chloroprene	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	SU	SU	SU	SU	SU
Dibromochloromethane	SU	SU	SU	SU	SU
Dibromomethane	SU	SU	SU	SU	SU
Dichlorodifluoromethane	10U	10U	10U	10U	10U
Ethyl cyanide	NA	NA	NA	NA	NA
Ethyl methacrylate	10U	10U	10U	10U	10U
Ethylbenzene	SU	SU	SU	SU	SU
Fluorochloromethane	NA	NA	NA	NA	NA
Heptamethane	SU	SU	SU	SU	SU
Isobutyl alcohol	200U	200U	200U	200U	200U
Methacrylonitrile	SU	SU	SU	SU	SU
Methyl methacrylate	SU	SU	SU	SU	SU
Methylene Chloride	98	SU	38U	78	38U
m,p-Xylenes	NA	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA	NA
Pentachloroethane	10U	10U	10U	10U	10U
Propionitrile	20U	20U	20U	20U	20U
Stano trimethyl-	U	U	U	U	6.8U
Styrene	SU	SU	SU	SU	SU
Tetrachloroethene	SU	SU	SU	SU	SU
Toluene	SU	SU	SU	SU	SU
trans-1,1-Dichloroethene	2U	2U	2U	2U	2U
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	SU	SU	SU	SU	SU
trans-1,4-dichloro-2-butene	100U	100U	100U	100U	100U
Trichloroethene	SU	SU	SU	SU	SU
Tetrachloroethane	10U	10U	10U	10U	10U
Vinyl acetate	10U	10U	10U	10U	10U
Vinyl chloride	10U	10U	10U	10U	10U
Xylenes (total)	SU	SU	SU	SU	SU
Unknown C13H28	U	U	U	U	U
Unknown VOA	U	U	81U	U	13U

SU = The analyte was found in the associated laboratory blank as well as in the sample. It denotes possible contamination of the sample and/or the blank used in this appropriate column.
 NA = The analyte was found in the associated laboratory blank as well as in the sample. It denotes possible contamination of the sample and/or the blank used in this appropriate column. Furthermore, the data has been qualified as an estimate.
 J = Estimated value
 NS = Not analyzed
 U = Absence or not reported

Table 5. Groundwater Monitoring Data for Well 699-S6-E4A: Semivolatile Organics.

Location Sample Number Laboratory Collection Date	699-S6-E4A		
	801016 Quantum Units/100 1/23/97	801528 Quantum Units/100 6/23/97	801668 Quantum Units/100 1/22/98
SVOCs (ug/L)			
Hexachlorocyclopentadiene	85U	100U	100U
Hexachloro 1,2,3-cyclopentadiene	10U	10U	10U
Isodrin	10U	10U	10U
Isodrinene	10U	10U	10U
Isodrine	20U	20U	20U
Ketone	85U	100U	100U
n-Dimethylbenzene	NA	NA	NA
Methylstyrene	45U	50U	50U
Methyl methanocyclopentadiene	10U	10U	10U
Methyl parathion	45U	50U	50U
N-Nitroso-p-n-nitrophenylamine	10U	10U	10U
N-Nitroso-p-n-butylamine	10U	10U	10U
N-Nitrosodimethylamine	10U	10U	10U
N-Nitrosodimethyltolylamine	NA	NA	NA
N-Nitrosodimethyltolylamine	10U	10U	10U
N-Nitrosomorpholine	10U	10U	10U
N-Nitrosopiperazine	10U	10U	10U
Nitrobenzene	10U	10U	10U
Nitrobenzene	10U	10U	10U
N-Nitrosopyrrolidine	10U	10U	10U
o-Toluene	20U	20U	20U
Octachlorane	NA	NA	NA
p-Dimethylmercaptobenzene	20U	20U	20U
p-Phenylacetamide	NA	NA	NA
Parathion	45U	50U	50U
Pentachlorobenzene	10U	10U	10U
Pentachlorobenzene (PCNB)	45U	50U	50U
Pentachlorobenzene	45U	50U	50U
Pentachlorobenzene	NA	NA	NA
Phenacetan	20U	20U	20U
Phenanthrene	10U	10U	10U
Phenol	10U	10U	10U
Phorate	45U	50U	50U
Prenamide	20U	20U	20U
Pyrene	10U	10U	10U
Satone	20U	20U	20U
Sulfone	10U	10U	10U
sym-Triphenylene	NA	NA	NA
Anisole	2000,80	NA	NA
Thiazin	45U	50U	50U
Tri-n-butyl phosphine	7000	4500	5400
Unknown Semi-VOC	15U	5U	U

NA = The analyte was found in the associated laboratory data as well as in the sample. A maximum possible concentration of the sample and equals the MCL level for that compound unless further information is provided. The data has been qualified as an estimate.
 U = The estimate was performed at a dilution factor equal to the primary laboratory or greater.
 * = Estimated Value
 D = Maximum possible concentration of a compound at an estimated value.
 NA = Not analyzed.
 U = Analyzed but not detected.

058925

ATTACHMENT 2
Revised FY98 Groundwater Sampling Plan

058925

FY98GWrv.pln 5/22/98

Revised FY98 Groundwater Sampling Plan for the 300-FF-2 OU

The groundwater sampling task to support the 300-FF-2 OU is based on the recommendations described in the LFI report (DOE/RL-96-42) and the multi-year work plan. Tasks associated with this effort include planning, sampling, sample analysis, analytical support, sample management, data evaluation, sample disposal, and a yearly summary report.

Sampling and analysis at well 699-13-3A identified for the 618-11 burial ground will be continued for the same analyte list as performed during 1996 and 1997. This will include both filtered and unfiltered ICP metals analysis, and gross alpha, gross beta, and total uranium for radionuclide monitoring.

Sampling and analysis at well 699-S6-E4A identified for the 618-10 burial ground/316-4 crib site will include the VOA, Semi-VOA (including Tri-Butyl Phosphate), ICP metals (both filtered and unfiltered), gross alpha, gross beta, and total uranium. In addition a gamma energy analysis (ie., gamma scan) will also be included. (Note: Based on results received to date the Total Petroleum Hydrocarbon (TPH) analyses previously run have been eliminated from future sampling events.)

The attached tables (Tables 1 and 2) provide a summary of the number of analyses to be performed at each general location for fiscal year 1998.

Schedule:

The annual sampling event at well 699-13-3A and the first sampling at well 699-S6-E4A will occur in January, 1998. The second sampling at well 699-S6-E4A will occur in July, 1998.

QA/QC sampling:

Since only 1 well is to be sampled at each location there will be no QA/QC sampling (splits, duplicates, equipment blanks). There will be one VOA trip blank sample taken each time well 699-S6-E4A is sampled since VOAs are an analyte of interest.

Field Analysis:

During sampling the following field analyses will be performed: conductivity, temperature, turbidity, dissolved oxygen, and pH. Within 48 hours after completion of sampling copies of field logs, sample reports, etc. will be provided to the project lead (L.C. Hulstrom).

Additional Materials/Equipment Needs:

At well 699-13-3A a sampling pump will be supplied each time the well is sampled. Decon of this equipment will be required as per procedure.

Remaining Tasks:

After each sampling event is performed, data analysis, evaluation, and data management will be performed. Data validation will not be required. In addition, sample disposal will be coordinated to dispose of samples to an appropriate disposal facility. An annual BHI Internal summary report will be written and issued prior to September 30, 1998. It will contain data tables, two to three pages of analysis, and an updated discussion relative to the conceptual model of each location.

**PROJECTED NUMBER OF SAMPLES FOR FY 1998 300-FF-2 OU
GROUNDWATER SAMPLING**

Table 1 - 618-11 Burial Ground Area/ Well 699-13-3A	
Analyte	# of Analyses/yr
ICP Filtered metals (TAL, EPA 6010A)	1
ICP Unfiltered metals (TAL, EPA 6010A)	1
gross alpha/gross beta	1
Total Uranium	1

Includes 1 sample only. Sampling to be performed in January, 1998.

Table 2 - Semi-Annual Sampling at Well 699-S6-E4A	
Analyte	Number of Analyses/sampling
VOA (App IX, EPA 8240)	2
SVOA, incl. Tri-Butyl Phosphate (App IX, EPA 8270)	1
ICP Filtered metals (TAL, EPA 6010A)	1
ICP Unfiltered Metals (TAL, EPA 6010A)	1
TPH (418.1)*	1
WTPH-D (EPA 8015)*	1
WTPH-G (EPA 8015)*	1
gross alpha/gross beta	1
Gamma Spec	1
Total Uranium	1

Includes 1 sample and at least 1 VOA trip blank. Sampling to be performed in January, 1998 and July, 1998.

* The sampling to be performed in July, 1998 will not include the TPH or WTPH analytes.

Waste Information Data System General Summary Report

4/23/1998

Site Code: 126-B-1	Site Classification: Accepted	Page 1
Site Names: 126-B-1, 184-B Power House Ash Pit, 188-B Ash Disposal Area		
Site Type: Coal Ash Pit	Start Date: 1944	
Status: Inactive	End Date: 1969	
Operable Unit: 100-BC-1	Coordinates:	
Hanford Area: 100B	(E) 565000.625	
	(N) 145051.453	
	Washington State Plane	

Site Description: The 126-B-1 site is a large vegetation covered depression and surrounding ash piles. The depression is approximately 60 meters (200 feet) long, 60 meters (200 feet) wide, and 3 meters (10 feet) deep. An earthen berm divides the site into two sections. The pit is bounded on the north, east, and west sides by three large ash piles that extend 9 to 10 meters (30 to 33 feet) high. On the west side of the pit is a large wooden ramp that is in a state of disrepair. A large pipe enters the depression in the southwest corner. Including the surrounding ash piles, the overall site dimensions are approximately 200 meters by 200 meters (650 feet by 650 feet).

Location Description: The 126-B-1 Ash Pit is located north of the 184-B Powerhouse.

Process Description: Coal ash from the 184-B Powerhouse was mixed with raw river water and sluiced in slurry form to the ash pit via a 20 centimeter (8 inch) ashcolite pipe.

Associated Structures: The ash pit is related to the 184-B Powerhouse.

- References:**
1. K. H. Cramer, Hanford Site Waste Management Units Report, May 1987.
 2. 2/89, Preliminary Operable Units Designation Project, WHC-EP-0216.
 3. R. W. Carpenter, 05/18/94, 100-B Area Technical Baseline Report, WHC-SD-EN-TI-220.

Dimensions:

Length:	200.00 Meters	656.17 Feet
Width:	200.00 Meters	656.17 Feet

References: 1. R. W. Carpenter, 05/18/94, 100-B Area Technical Baseline Report, WHC-SD-EN-TI-220.

Regulatory Information:

Programmatic Responsibility

DOE Program: EM-40	Confirmed By Program:	Yes
DOE Division: RPD		

Site Evaluation

Solid Waste Management Unit: Yes

TPA Waste Management Unit Type:

Permitting

Part A Permit Application: No	216/218 Permit: No
Part B Permit Application: No	NPDES: No
Closure Plan: No	State Waste Discharge Permit: No
TSD Number:	Septic Permit: No

Waste Site Reclassification Form

Date Submitted: 4/23/1998 Originator: C. E. Corriveau, MSIN H0-17 Phone: 509-372-9565	Operable Unit(s): 100-BC-1 Waste Site ID: 126-B-1 Type of Reclassification Action: Rejected <input checked="" type="radio"/> Closed-Out <input type="radio"/> No Action <input type="radio"/>	Control Number: 98-07
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This form documents agreement among the parties listed below authorizing classification of the subject unit as rejected, closed-out, or no action and authorizing backfill of the site, if appropriate. Final removal from the NPL of no action or closed-out sites will occur at a future date.

Description of current waste site condition:

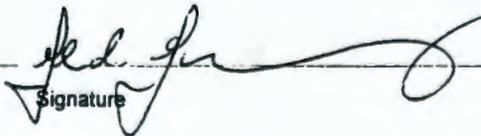
The 126-B-1 Ash Pit site is a large depression that was used for disposal of coal ash. The ash from the 184-B Powerhouse was mixed with raw river water and sluiced to the pit via a 20 centimeter (8 inch) pipeline. The site is now covered by large ash deposits and vegetation. Including the surrounding ash piles, the overall site dimensions are approximately 200 meters by 200 meters (650 feet by 650 feet).

Basis for reclassification:

All coal burned at the Hanford Site came from the same source. Studies have concluded that ash from Hanford Site power plants is nonradioactive and nondangerous:

- Analyses of Hanford Site coal ash samples from 126-D-1 and other ash piles have shown no evidence of hazardous, dangerous, or radioactive waste (see Section 4 of "100-D Ponds Closure Plan," DOE/RL-92-71, Rev. 1, Draft B, December 1997).
- EP Toxicity tests of Hanford Site coal ash samples found all results to be "well below" the minimum extract concentrations required for designation as EP toxic material per WAC 173-303 (see page 9 of Rasmussen, O.R., and R. A. Carlson, 1987, "Design Specifications for the Semiworks (201-C) Site Engineered Barrier," WHC-SD-DD-T1-004, Westinghouse Hanford Company, Richland, WA).

Glenis I Goldberry
DOE Project Manager


Signature

4/23/98
Date

N/A
Ecology Project Manager

Signature

Date


EPA Project Manager

Signature

6-25-98
Date

Waste Information Data System General Summary Report

4/23/1998

Site Code: 126-D-1	Site Classification: Accepted		Page 1
Site Names:	126-D-1, 184-D Powerhouse Ash Pit, 188-D Ash Disposal Area, 100-D Ash Disposal Basin		
Site Type:	Coal Ash Pit	Start Date:	1950
Status:	Inactive	End Date:	1960
Operable Unit:	100-DR-1	Coordinates:	
Hanford Area:	100D	(E) 573486	
		(N) 152098.484	
		Washington State Plane	
Site Description:	The 126-D-1 site is a large ash disposal area. The site was originally a large excavated basin approximately 60 meters (200 feet) long, 60 meters (200 feet) wide, and 3 meters (10 feet) deep. The extent of the original basin obscured by ash piles.		
Location Description:	The site is located north of the 184-D Powerhouse.		
Process Description:	Coal ash from the 184-D Powerhouse was mixed with raw river water and sluiced in slurry form to the ash pit via a 20 centimeter (8 inch) ashcolite pipe.		
Site Comment:	The east portion of the original disposal basin was converted to a liquid disposal site for the 100-D process sewers in 1977 (WIDS Site Code 120-D-1). The ash disposal area includes large mounds of ash on the east, north, and west sides of the 120-D-1 ponds.		
	An orphan drum that was located at the site has been removed. The authors of the 100-D Area Technical Baseline Report stated that the drum appeared to have leaked its contents. When the drum was removed there was no staining or other visible indications of a release to soil.		
References:	<ol style="list-style-type: none"> 1. 2/89, Preliminary Operable Units Designation Project, WHC-EP-0216. 2. N. A. Homan, 2/6/90, DSI: Comments on the September 1988 Draft Hanford Site Waste Management Units Report. 3. R. W. Carpenter, 09/20/93, 100-D Area Technical Baseline Report, WHC-SD-EN-TI-181, Rev 0. 4. R. W. Carpenter, 05/18/94, 100-B Area Technical Baseline Report, WHC-SD-EN-TI-220. 5. Atomic Energy Commission, Underground Water Pipelines 100-D Area Hanford Works (No Official Title Provided), M-1904-D, Sht 5, Rev 0. 6. Shearer, J. P. with J. P. Zoric, 1/19/98, Telephone Conversation: Orphan Drum at 126-D-1. 		

Regulatory Information:

Programmatic Responsibility			
DOE Program:	EM-40	Confirmed By Program:	Yes
DOE Division:	RPD		
Site Evaluation			
Solid Waste Management Unit:	Yes		
TPA Waste Management Unit Type:	Waste disposal unit		
Permitting			
Part A Permit Application:	No	216/218 Permit:	No
Part B Permit Application:	No	NPDES:	No
Closure Plan:	No	State Waste Discharge Permit:	No
TSD Number:		Septic Permit:	No
Air Operating Permit:	No	Inert Landfill:	No
Air Operating Permit			

Site Code: 126-D-1

Site Classification: Accepted

Page 2

Number(s):

Tri-Party Agreement

Lead Regulatory Agency: Ecology

Unit Category: CPP

TPA Appendix: Other

Remediation and Closure

Decision Document: Interim Record of Decision, 100 Area Remaining Sites

Decision Document Status: Proposed

Remediation Design Group: Remaining Sites

Closure Document:

Closure Type:

Post Closure Requirements:

Residual Waste:

Waste Information:

Type: Ash

Category: Nondangerous/nonradioactive

Physical State: Solid

Description: This site received an unknown amount of coal ash that was sluiced to pits with raw river water from the 184-D Powerhouse. The ash has been determined by testing in accordance with WAC 173-303 to be nonextraction process (EP) toxic.

References:

1. N. A. Homan, 2/6/90, DSI: Comments on the September 1988 Draft Hanford Site Waste Management Units Report.
2. R. W. Carpenter, 09/20/93, 100-D Area Technical Baseline Report, WHC-SD-EN-TI-181, Rev 0.
3. Petersen, Scott W., 9/1997, 100-D Ponds Closure Plan, DOE/RL-92-71, Rev 1.

Waste Site Reclassification Form

Date Submitted: 4/23/1998	Operable Unit(s): 100-DR-1	Control Number: 98-06
Originator: C. E. Corriveau, MSIN H0-17	Waste Site ID: 126-D-1	
Phone: 509-372-9565	Type of Reclassification Action:	
	Rejected <input checked="" type="radio"/>	
	Closed-Out <input type="radio"/>	
	No Action <input type="radio"/>	

This form documents agreement among the parties listed below authorizing classification of the subject unit as rejected, closed-out, or no action and authorizing backfill of the site, if appropriate. Final removal from the NPL of no action or closed-out sites will occur at a future date.

Description of current waste site condition:

The 126-D-1 Ash Pit site is a large depression that was used for disposal of coal ash. The ash from the 184-D Powerhouse was mixed with raw river water and sluiced to the pit via a 20 centimeter (8 inch) pipeline. The depression is no longer present and the site is covered by large ash deposits and vegetation.

The east portion of the basin was converted to a liquid disposal site for the 100-D process sewers in 1977. The 100-D Ponds are a separate waste site (120-D-1) and are not included in this reclassification.

Basis for reclassification:

All coal burned at the Hanford Site came from the same source. Studies have concluded that ash from Hanford Site power plants is nonradioactive and nondangerous:

- Analyses of Hanford Site coal ash samples from 126-D-1 and other ash piles have shown no evidence of hazardous, dangerous, or radioactive waste (see Section 4 of "100-D Ponds Closure Plan," DOE/RL-92-71, Rev. 1, Draft B, December 1997).

- EP Toxicity tests of Hanford Site coal ash samples found all results to be "well below" the minimum extract concentrations required for designation as EP toxic material per WAC 173-303 (see page 9 of Rasmussen, O.R., and R. A. Carlson, 1987, "Design Specifications for the Semiworks (201-C) Site Engineered Barrier," WHC-SD-DD-TI-004, Westinghouse Hanford Company, Richland, WA).

<u>Glenn Goldberg</u> DOE Project Manager	<u>[Signature]</u> Signature	<u>6/25/98</u> Date
<u>[Signature]</u> Ecology Project Manager	<u>[Signature]</u> Signature	<u>6-25-98</u> Date
_____ EPA Project Manager	_____ Signature	_____ Date

Waste Information Data System General Summary Report

4/23/1998

Site Code: 126-H-1	Site Classification: Accepted	Page 1
Site Names:	126-H-1, 184-H Powerhouse Ash Pit, 188-H Ash Disposal Area	
Site Type:	Coal Ash Pit	Start Date: 1948
Status:	Inactive	End Date: 1965
Operable Unit:	100-HR-2	Coordinates:
Hanford Area:	100H	(E) 577318.5
		(N) 152920.016
		Washington State Plane
Site Description:	The 126-H-1 site is a large ash disposal pit. The site is 76 meters (250 feet) long, 76 meters (250 feet) wide and 3.7 meters (12 feet) deep. It is divided into two parts by a 2.4 meter (8 foot) berm that runs east to west. The floor of the ash pit is evenly covered with ash and cinder. Some light vegetation is evident.	
Location Description:	The site is located northwest of the 105-H Reactor and west of the where the 184-H Powerhouse was located.	
Process Description:	Coal ash from the 184-H powerhouse was mixed with raw river water and sluiced in slurry to the ash pit via a 20 centimeter (8 inch) steel pipeline.	

- References:**
1. K. H. Cramer, Hanford Site Waste Management Units Report, May 1987.
 2. 2/89, Preliminary Operable Units Designation Project, WHC-EP-0216.

Dimensions:

Length:	76.20 Meters	250.00 Feet
Width:	76.20 Meters	250.00 Feet
Depth / Height:	3.66 Meters	12.00 Feet

Site Shape: Square

References: 1. D.H. Deford, M.W. Elnan., Feb 1995, 100-H Area Technical Baseline Report, BHI-00127, Rev 00.

Regulatory Information:

Programmatic Responsibility			
DOE Program:	EM-40	Confirmed By Program:	Yes
DOE Division:	RPD		

Site Evaluation	
Solid Waste Management Unit:	Yes
TPA Waste Management Unit Type:	

Permitting			
Part A Permit Application:	No	216/218 Permit:	No
Part B Permit Application:	No	NPDES:	No
Closure Plan:	No	State Waste Discharge Permit:	No
TSD Number:		Septic Permit:	No
Air Operating Permit:	No	Inert Landfill:	No

Air Operating Permit Number(s):

Site Code: 126-H-1

Site Classification: Accepted

Page 2

Tri-Party Agreement

Lead Regulatory Agency: Ecology

Unit Category: RPP

TPA Appendix:

Remediation and Closure

Decision Document: Interim Record of Decision, 100 Area Remaining Sites

Decision Document Status: Proposed

Remediation Design Group: Remaining Sites

Closure Document:

Closure Type:

Post Closure Requirements:

Residual Waste:

Waste Information:

Type: Ash

Category: Nondangerous/nonradioactive

Physical State: Solid

Description: Unknown amounts of coal ash were sluiced to the pit with raw river water. Ash from other Hanford ash pits has been analyzed using the EP Toxicity Test in accordance with WAC 173-303, and no hazardous materials were found.

References:

1. K. A. Gano, 6/3/87, Designation Numbers for UNC Controlled Waste Sites in the 100 Areas, UNI-4433.
2. L. P. Diediker to F. A. Ruck III, 3/17/88, WHC Mem.: Comment and Revisions to 100 Area Waste Units Listed in 3004(u).
3. R. C. Roos, 05/04/92, 100-D Ponds: Characterization of Potential Hazardous Waste in the Near Surface Soil and Sediments, WHC-SD-EN-AP-044.

Waste Site Reclassification Form

Date Submitted: 4/23/1998	Operable Unit(s): 100-HR-2	Control Number: 98-08
Originator: C. E. Corriveau, MSIN H0-17	Waste Site ID: 126-H-1	
Phone: 509-372-9565	Type of Reclassification Action:	
	Rejected <input checked="" type="radio"/> Closed-Out <input type="radio"/> No Action <input type="radio"/>	

This form documents agreement among the parties listed below authorizing classification of the subject unit as rejected, closed-out, or no action and authorizing backfill of the site, if appropriate. Final removal from the NPL of no action or closed-out sites will occur at a future date.

Description of current waste site condition:

The 126-H-1 Ash Pit site is a large depression that was used for disposal of coal ash. The ash from the 184-H Powerhouse was mixed with raw river water and sluiced to the pit via a 20 centimeter (8 inch) pipeline. The open pit measures approximately 76 meters (250 feet) long, by 76 meters (250 feet) wide, by 3.7 meters (12 feet) deep. The floor of the pit is evenly distributed with ash and cinders, and some light vegetation is evident.

Basis for reclassification:

All coal burned at the Hanford Site came from the same source. Studies have concluded that ash from Hanford Site power plants is nonradioactive and nondangerous:

- Analyses of Hanford Site coal ash samples from 126-D-1 and other ash piles have shown no evidence of hazardous, dangerous, or radioactive waste (see Section 4 of "100-D Ponds Closure Plan," DOE/RL-92-71, Rev. 1, Draft B, December 1997).

- EP Toxicity tests of Hanford Site coal ash samples found all results to be "well below" the minimum extract concentrations required for designation as EP toxic material per WAC 173-303 (see page 9 of Rasmussen, O.R., and R. A. Carlson, 1987, "Design Specifications for the Semiworks (201-C) Site Engineered Barrier," WHC-SD-DD-TI-004, Westinghouse Hanford Company, Richland, WA).

<u>Glenn Goldberg</u> DOE Project Manager	<u>[Signature]</u> Signature	<u>6/25/98</u> Date
<u>Wayne Soper</u> Ecology Project Manager	<u>[Signature]</u> Signature	<u>6-25-98</u> Date
_____ EPA Project Manager	_____ Signature	_____ Date