

# Environmental Management Performance Report

February 2002



E0203049.1



**Department of Energy**  
Richland Operations Office



**Bechtel Hanford, Inc.**  
Environmental Restoration Contractor

Data as of month-end February

## TABLE OF CONTENTS

<b>INTRODUCTION</b> .....	1
<b>SECTION A – EXECUTIVE SUMMARY</b> .....	2
NOTABLE ACCOMPLISHMENTS.....	3
SAFETY.....	5
PROCESS IMPROVEMENTS.....	9
MAJOR COMMITMENTS.....	9
PERFORMANCE OBJECTIVES.....	10
TOTAL ERC COST/SCHEDULE OVERVIEW.....	11
ISSUES (REGULATORY/EXTERNAL/DOE).....	14
KEY INTEGRATION ACTIVITIES.....	14
UPCOMING PLANNED KEY EVENTS.....	14
<b>SECTION B – RIVER CORRIDOR RESTORATION SUMMARY</b> .....	15
<b>SECTION C – CENTRAL PLATEAU TRANSITION SUMMARY</b> .....	24
<b>SECTION D – SITE INTEGRATION &amp; INFRASTRUCTURE SUMMARY</b> .....	30

## INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report (EMPR) consists of four sections: Section A - Executive Summary, Section B – River Corridor Restoration, Section C - Central Plateau Transition, and Section D – Site Integration and Infrastructure. All data is current as of February 28.

**Section A – Executive Summary.** The Executive Summary begins with a description of notable accomplishments that are considered to have made the greatest contribution toward safe, timely, and cost-effective Hanford Site cleanup. Safety statistics are also included. Major commitments are summarized that encompass Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones and FY02 Environmental Management (EM) corporate performance measures and objectives. Fiscal year-to-date ER Project cost and schedule variance analysis is summarized. Issues that require management and/or regulator attention are addressed along with resolution status. The Key Integration Activities section highlights site activities that cross contractor boundaries, supporting overall Hanford Site goals. The Executive Summary ends with a listing of major upcoming planned key events (90-day look ahead).

**Section B – River Corridor Restoration.** This section contains more detailed ERC monthly activity information and performance status for the three PBSs within the River Corridor Restoration outcome. These three PBSs consist of RC01 - 100 Area River Corridor Cleanup, RC02 - 300 Area Cleanup, and RC05 - River Corridor Waste Management.

**Section C – Central Plateau Transition.** This section contains more detailed ERC monthly activity information and performance status for the one PBS within the Central Plateau Transition outcome. This PBS consists of CP01 – 200 Area Remediation.

**Section D – Site Integration & Infrastructure.** This section contains more detailed ERC monthly activity information and performance status for the two PBSs within the Site Integration and Infrastructure outcome. These two PBSs consist of SS03 – Groundwater Management and Monitoring, and SS04 – Groundwater/Vadose Zone (GW/VZ) Integration.

PBS SC01 – Near Term Stewardship is structured within the Site Stewardship outcome. Due to the minimal FY02 workscope identified for this PBS, SC01 performance data will be included in the Executive Summary cost/schedule overview.

Performance Incentive and Safety information in this report is identified with a green, yellow or red text box used as an indicator of the overall status. Green indicates work or issue resolution is satisfactory and generally meets or exceeds requirements, yellow indicates that significant improvement is required, and red indicates unsatisfactory conditions that require immediate corrective actions.

# Section A - Executive Summary



*River Corridor Restoration*



*Central Plateau Transition*



*Site Integration & Infrastructure*

Data as of month-end February

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**SECTION A – EXECUTIVE SUMMARY**

**Data as of month-end February**

**NOTABLE ACCOMPLISHMENTS:**

**General:**

The Environmental Restoration Contractor (ERC) hosted the U.S. Department of Energy (DOE), Richland Operations Office's (RL's) Quarterly Environmental Forum on February 7. The purpose of the forum was to provide Hanford Site contractors and RL an opportunity to discuss current environmental topics affecting the Hanford Site. The agenda for the February meeting included a presentation on Hanford's Cleanup Constraints and Challenges Team (C3T), the RL/Office of River Protection (ORP) memorandum of understanding, risk methodology for the Central Plateau, and a demonstration of ERC's virtual library.

Fiscal year 2002 (FY02) funding guidance was received from RL on January 17. A baseline change proposal (BCP) was prepared and submitted that supported the formal rebaselining of the Environmental Restoration (ER) FY02 work plans.

**River Corridor Restoration:**

Plume excavation continued in the 100 B/C Area. Clean overburden removal, excavation of contaminated soils, and loadout activities progressed on various pipelines as well.

In the 100 F Area, excavation activities continued at the 126-F-1 Ash Pit and the 116-F-9 Animal Waste Trench plumes. Closeout sampling was completed at two waste sites.

In the 100 N Area, excavation of the last identified plume at 116-N-3 was completed in February. Variance/confirmation sampling will be initiated in March. Demolition and processing activities at the 116-N-1 Trench cover panels and girders were also completed. Exposure rates are approximately 30 percent of the planned rates as a result of incorporating as-low-as-reasonably-achievable (ALARA) practices.

Subcontractor mobilization activities are continuing in support of the 618-4 and 618-5 Burial Ground remediation. A formal readiness assessment meeting is scheduled for March 26.

During February, the Environmental Restoration Disposal Facility (ERDF) received 44,005 metric tons (48,507 tons) of waste, for a total of 226,474 metric tons (249,645 tons) received to-date in FY02. A total of 3,087,100 metric tons (3,402,946 tons) have been disposed in ERDF since operations began in July 1996. ERDF Disposal personnel have worked 70 months without a lost-time accident, and the ERDF Transportation team has driven 9,392,875 kilometers (5,836,462 miles) without an at-fault vehicle accident.

DR Reactor safe storage enclosure (SSE) demolition work continued. Pumping of water from the H Reactor Fuel Storage Basin (FSB) transfer pits was also completed. Approximately 302,833 liters (80,000 gallons) of water was removed and transported to the Effluent Transfer Facility (ETF). Progress also continued on the D, H, and F Reactor interim safe storage (ISS) activities.

Installation of the FY02 In Situ Redox Manipulation (ISRM) Phase III barrier wells is progressing. Nine wells have been installed through February. A total of 17 wells are planned for installation. The subcontract for the mitigation soil sampling/well installation borehole was also awarded in February.

Installation of the 100-KR-4 groundwater pump and treat extraction well was completed in support of the CERCLA five-year upgrades.

The three River Corridor groundwater pump and treat systems operated above the 90 percent availability level in February.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**NOTABLE ACCOMPLISHMENTS continued:**

**Central Plateau Transition:**

Good progress continued on decommissioning of the highly contaminated 233-S Plutonium Concentration Facility. Through February, 13 of the total 15 vessels have been removed. The two remaining vessels are planned to be removed in March. Removal of piping continued, waste containers were prepared for shipment and disposal, and 646 nondestructive assay (NDA) packages were completed.

Well construction and development was completed at the Plutonium Finishing Plant (PFP) in support of the carbon tetrachloride investigation; well decommissioning of the first borehole was also completed.

Rebaselining of the ERC Projects was completed to align with RL-approved funding guidance and to support transition to Fluor Hanford, Inc. (FH) on June 30, 2002.

Two innovative technologies were deployed at the 216-Z-11 Trench with the Small-Diameter Geophysical Logging system: 1) the advanced gamma-spectroscopy logging tool, and 2) the passive neutron geophysical logging tool. The data obtained from these technologies were used to accurately locate the area with the highest plutonium concentrations. This area will be the site of upcoming borehole drilling to collect samples for laboratory analysis.

The two Central Plateau pump and treat systems operated above the 90 percent availability level in February.

The Canyon Disposition Initiative (CDI) was nominated for the Project Management Institute (PMI) 2002 Project of the Year award.

**Site Integration and Infrastructure:**

The first groundwater monitoring strategy technical meeting was held to update the site-wide groundwater strategy as recommended by Hanford's C3T process.

An Expert Panel reformatting workshop was held with RL, HQ, ORP, Panel Chairman, and Integration Project staff to realign the panel with the current project baseline.

Testing of the new System Assessment Capability (SAC) supercomputer hardware was initiated following installation of the software.

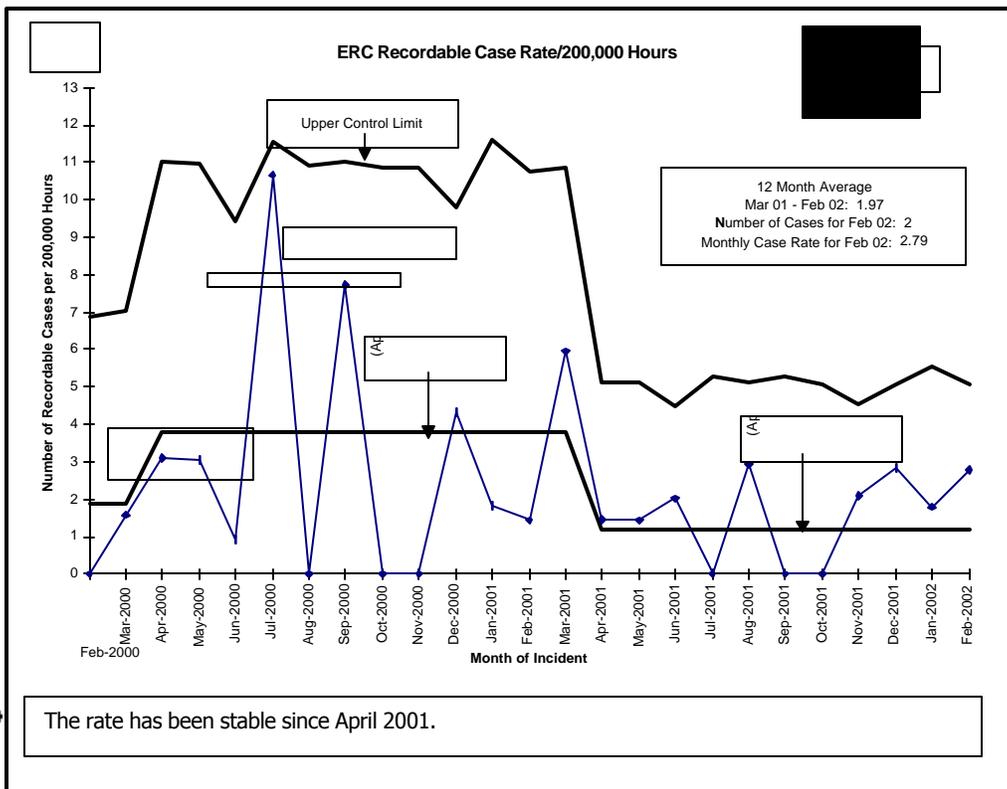
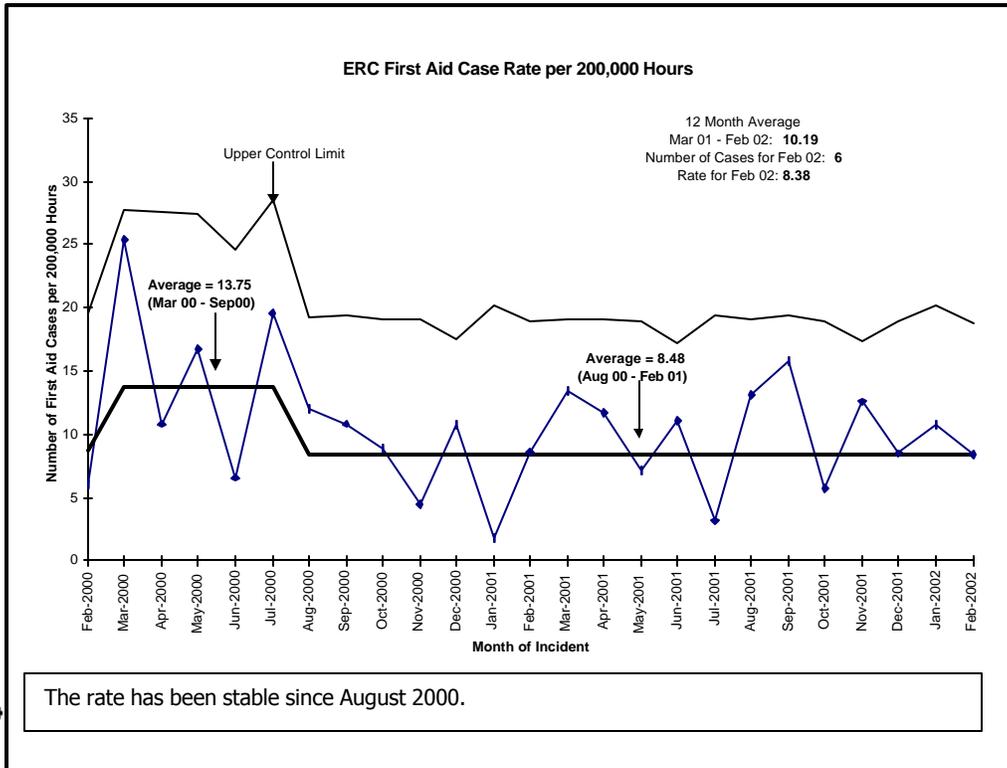
The soil and groundwater remediation workshop was held in February to develop input needed for update of the Science and Technology (S&T) roadmap. The workshop participants included other national laboratories, Hanford Site contractors, RL and ORP, regulators, Tribal Nations, and stakeholders.

# ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

## ENVIRONMENTAL RESTORATION

### FEBRUARY 2002

**SAFETY:**

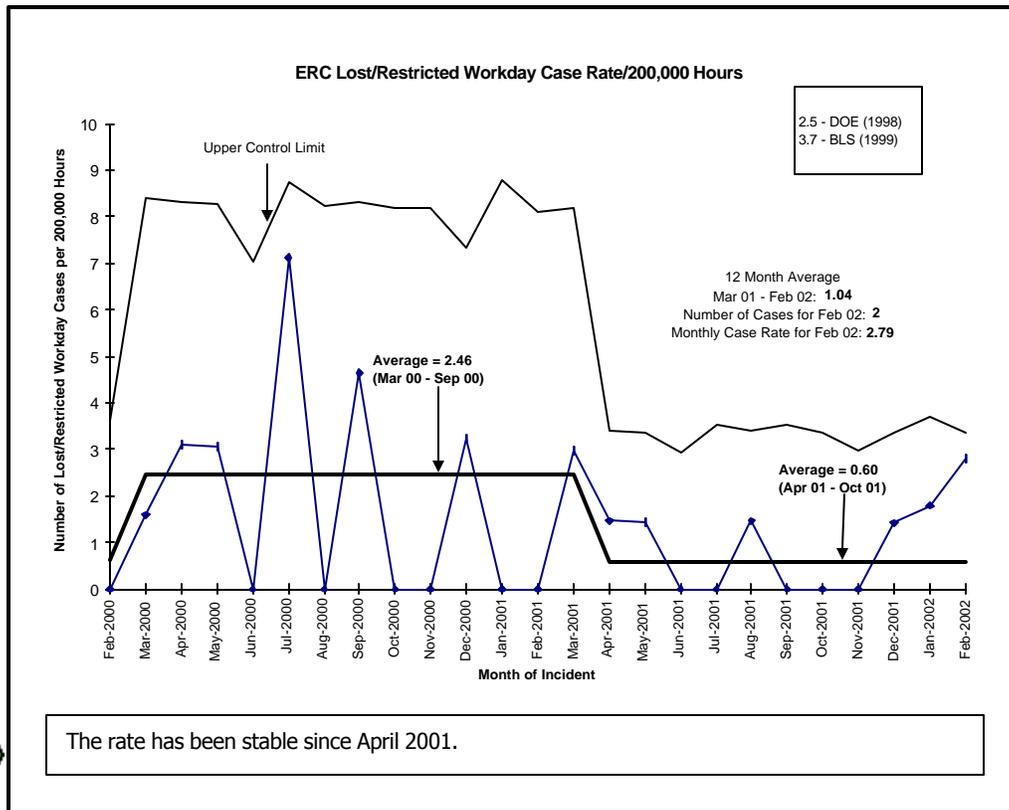


# ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

## ENVIRONMENTAL RESTORATION

### FEBRUARY 2002

**SAFETY continued:**



The following actions have or are being taken by the Environmental Restoration Contractor (ERC) to focus on safety improvements:

- All accidents are thoroughly investigated. Emphasis is placed on causes and corrective actions that can be implemented where applicable. Timely discussions are expected to take place in safety meetings and plan of the day (POD) meetings. When investigations have been completed, the results of each investigation are sent to the Area Superintendents, Field Superintendents, and Supervisors to review at the PODs.
- Bechtel Hanford, Inc. (BHI) continues to look for trends and consult with corporate and other Bechtel National, Inc. (BNI) contacts for ways to enhance performance.
- The ERC has received approval from DOE to set in motion the plans to obtain Voluntary Protection Program (VPP) Star Status recognition.
- BHI continues to work closely with the Hanford Atomic Metal Trades Council (HAMTC) Safety Representative to resolve safety issues as they arise.
- Senior management continues to meet with small groups of employees in the field to discuss safety and personal commitment.
- The Field Support General Superintendent and Project Safety Manager continue to visit different projects on a regular basis, meet with project team members, and conduct a safety walkaround. Area Superintendents for Decontamination and Decommissioning (D&D) Projects/233-S, Surveillance, Maintenance, and Transition (SM&T), and Groundwater/Vadose Zone (GW/VZ) Integration Project will be included in these walkarounds and will be visiting projects other than those for which they are responsible. Information from the walkaround is shared with the team and other Field Support personnel. Safety conditions requiring corrective action are assigned to project personnel or support personnel for action and are tracked to closure. This activity is ongoing.
- The ERC has invited "Brown Bag Speakers" to join employees during lunchtime at the 3350 George Washington Way facility to discuss various safety and health topics.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**SAFETY continued:**

	<b>FYTD</b>	<b>Current Period (1/21/02- 2/17/02)</b>	<b>Current Period Comments</b>
<b>First Aid</b>	34	6	(2) strain/pain, (2) contusion/abrasion, (1) respiratory, (1) irritation
<b>OSHA Recordable</b>	7	2 (includes restricted workday and lost workday cases)	See descriptions below
<b>Restricted Workday Case</b>	3	1	(1) back pain requiring light duty restrictions for 7 days
<b>Lost Workday Case</b>	1	1	(1) ruptured ligament requiring surgery

**Status:**

- As of February 28, the ERC has worked approximately 98,000 hours without a lost workday case. The last incident occurred on January 29 and became a lost time on February 11. Continuous employee involvement is being fostered by the Integrated Environmental Safety and Health Management System (ISMS), Voluntary Protection Program (VPP), labor alliance programs, e-mail communications, and one-on-one meetings with employees.
- ERC task teams were established to review oversight of subcontractors and flowdown of Environmental Safety and Health (ES&H) requirements to subcontractors. A management review of both processes was performed. In addition to targeted process improvement actions, additional areas were identified that require evaluation prior to development of the final corrective action plan. This activity is ongoing.
- General safety walkthroughs were conducted by the Field Support Area Superintendent and Project Manager at the 100-KR-4 groundwater pump and treat system and the D/DR Reactors.
- The ERC has recognized a trend in sprain and strain injuries. Heightened awareness regarding proper lifting techniques, the use of mechanical devices for lifting heavy or awkward loads, proper planning, and increased participation in stretching exercises have been discussed to reduce these types of injuries.
- The SM&T project constructed a training mockup to replicate replacing the HEPA filters in the B Plant exhaust system. The mockup will reduce exposure and improve changeout efficiency.
- On February 20, a "Brown Bag Speaker" session on cold/flu prevention and vitamin use was presented by William H. Brady, MD and Judi Staley of Hanford Environmental Health Foundation (HEHF).

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**SAFETY continued:**

**Integrated Environmental Safety and Health Management System (ISMS):**

**Status:**

- Implementation of ERC's ISMS metric set continued. One of the five "Compliance and Oversight Performance Measures", namely Agreement between Scheduled vs. Actual Assessments Performed, was initiated in February. Implementation of the other four is underway. Also, eight of the seventeen performance indicators for the "ES&H Performance Measures" have been implemented. Implementation of the other nine is on schedule. A detailed report outlining progress will be transmitted to RL in March.
- Negotiations were completed with the U.S. Environmental Protection Agency (EPA) to release all restrictions on 233-S in regard to shipping waste to ERDF. This is the culmination of several months of negotiations and interface between BHI, RL, EPA and BHI technical subcontractors.
- Environmental Information Systems researched waste sites, documents, and drawings of the 100 H Area to locate all the pipelines. This activity supported the project to proceed with activities in an effective and safe manner.
- An additional 120 acres were surveyed within the Hanford Construction Camp related to WIDS 600-186. Additional large septic tank locations, drains, previously unmapped wells, wood-cribbed holes, and pipeline manholes were among the features identified.
- BHI is working with RL to ensure closure of all old RL-identified BHI action items. There are 77 items identified from 1995-1999 that have been completed by BHI and are stasured "Closed" in the ERC Corrective Action Tracking System. However, in the RL Deficiency Tracking System they are stasured "Pending RL Verification". These action items need to be verified and closed by RL prior to the Central Plateau and River Corridor transition.
- An independent assessment of "software engineering practices applied to software application used in safety in-depth analysis" was performed. There were no Corrective Action Requests issued.
- The Corrective Action Request Form, BHI-CQP-006a was revised to incorporate "metric" reporting criteria and BHI-MA-02, Procedure 2.15, "Processing of External Agency Issues Requiring Corrective Action Response," to improve processing and revise actionee responsibilities. BHI also updated the ERC's portion of RL's Integrated Evaluation Plan Assessment Schedule to reflect the current status of ERC independent assessment activity.
- BHI screened twenty-four self-assessments, ten occurrence reports, four Quality Services surveillance reports, two corrective action requests, one nonconformance report, and five independent assessments for Price-Anderson Amendments Act (PAAA) compliance determinations.

**Conduct of Operations:**

**Status:** Two previous months' events were reported in the Corrective Action Tracking System (CATS) database for the current reporting period: 1) in November 2001, a pipefitter cut his finger with a saw while in an alpha high contamination area at the 233-S facility; and 2) in January 2002, a violation of the subcontractor's fall protection plan occurred at the 105-DR Reactor building. Corrective action plans were implemented; both issues are closed.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**PROCESS IMPROVEMENTS:**

**Six Sigma:**

**Status:**

- Implementation of the Six Sigma program across the ERC continued.
- A third Black Belt candidate was selected and the 5-week Black Belt training cycle commenced.
- The Draft Six Sigma Program Implementation Plan (Rev. 2) was completed.

Process Improvement Projects (PIPs) and status include:

- A 3-step approach was developed for Phase 2 Nevada/Hanford Waste Acceptance Process PIP (PIP #5) and presented to DOE.
- The Radiological Work Control Process PIP (PIP #6) is in the "Analyze Phase" and is approximately 60 percent complete.
- The Waste Management Data Processing PIP (PIP #7) was kicked off and began the "Measure Phase".
- The Authorization Basis Documentation Process PIP (PIP #8) team was established and the business case is being developed.
- Three processes are being evaluated as potential PIP candidates: Subcontractor Oversight & Change Control Process, Waste Container Handling/Distribution Process, and ERC Monthly Progress Review Process.

**MAJOR COMMITMENTS:**

Tri-Party Agreement **Milestones:** Seventeen (17) Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones were planned for completion during FY02 (16 FY02 planned milestones and 1 "to be determined" [TBD] dated milestone). Through February, 11 milestones have been completed; 10 ahead of schedule, and 1 on schedule.

River Corridor and Central Plateau draft change packages are currently undergoing public comment review which will close on March 14 and April 12, respectively. There are three FY02 milestones being proposed for deletion in these change packages: M-93-12, Issue 105-DR Disposition Competitive Procurement Package (due February 28); M-15-40A, Complete U Pond/Z Ditches Cooling Water Group Field Work Through Sample Collection and Analysis (due September 30); and M-15-42B, Submit 200-TW-2 Operable Unit Draft A Remedial Investigation Report to Ecology (due September 30). River Corridor draft change packages are expected to be approved by April 30. Central Plateau draft change packages are expected to be approved by June 5.

The regulators agreed to extend the completion date for M-16-27C, "Complete 100-HR-3 Phase III ISRM Barrier Emplacement" (due September 30) to June 30, 2003. A change request is being prepared.

Total Tri-Party Agreement Milestones Due in FY02	17*
Total Planned Through February	9
Total Completed Through February	11

\*Includes a "TBD" milestone

Remaining Tri-Party Agreement Milestones to be Completed in FY02	6
Forecast Ahead of Schedule	2
Forecast On Schedule	0
Forecast Unrecoverable (change request is being prepared)	1
Proposed to be Deleted	3

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**MAJOR COMMITMENTS continued:**

EM Corporate Performance Measures:

	<b>DWP FY02</b>	<b>FY02 Mgmt Commitments</b>	<b>Current Baseline</b>	<b>Completed YTD</b>
<b>Waste Site Excavations</b>	13	10*	10	4
<b>Technology Deployments</b>	0	3	4	3

\*IPABS currently reporting 12 (change request pending). Performance measure commitments revised due to formal funding guidance received from RL in January and required project rebaselining.

**PERFORMANCE OBJECTIVES:**

RL has not formally transmitted final FY02 Performance Incentives (PIs) to BHI.

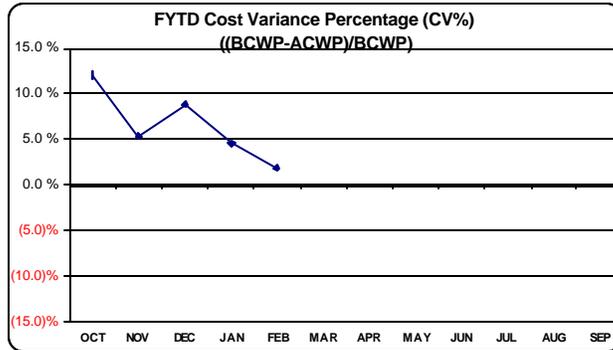
# ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

## ENVIRONMENTAL RESTORATION

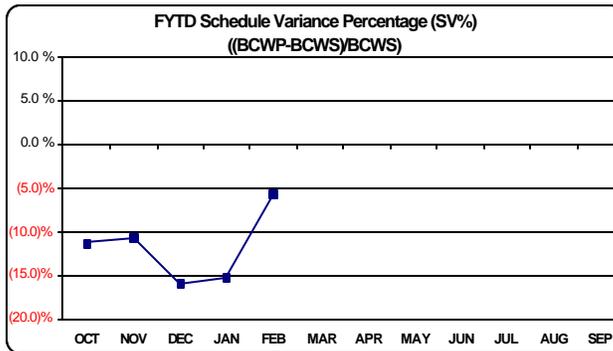
### FEBRUARY 2002

#### TOTAL ERC COST/SCHEDULE OVERVIEW:

#### FY02 ER PERFORMANCE SUMMARY FYTD FEBRUARY 2002 (\$K)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	FAC
<b>CURRENT PERIOD</b>													
ACWP	10,237	12,390	11,786	13,451	13,111								
BCWP	11,635	12,272	13,862	12,378	11,904								
<b>FISCAL YEAR TO DATE</b>													
ACWP	10,237	22,627	34,413	47,864	60,975								
BCWP	11,635	23,907	37,769	50,147	62,050								
CV	1,398	1,280	3,356	2,282	1,075								
CV%	12.0%	5.4%	8.9%	4.6%	1.7%								
EAC (Cumulative)	10,237	22,627	34,413	47,864	60,975	79,560	94,874	109,477	125,423	133,562	141,913	153,450	153,450



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	10,994	11,433	14,984	13,383	12,125	15,162	12,865	12,486	13,558	11,837	12,074	14,835
DWP (Accum)	10,994	22,427	37,411	50,794	62,919	78,081	90,946	103,432	116,990	128,827	140,901	155,736
<b>CURRENT PERIOD</b>												
BCWS	13,121	13,631	18,145	14,309	6,629	17,049	15,221	14,236	15,055	8,051	8,063	10,805
BCWP	11,635	12,272	13,862	12,378	11,904							
<b>FISCAL YEAR TO DATE</b>												
BCWS	13,121	26,752	44,897	59,206	65,835	82,884	98,105	112,341	127,396	135,446	143,510	154,315
BCWP	11,635	23,907	37,769	50,147	62,050							
SV	(1,486)	(2,845)	(7,128)	(9,060)	(3,785)							
SV%	-11.3%	-10.6%	-15.9%	-15.3%	-5.7%							

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**TOTAL ERC COST/SCHEDULE OVERVIEW continued:**

**FY02 ER PBS PERFORMANCE SUMMARY  
FYTD FEBRUARY 2002  
(\$K)**

	FY02DWP BOWS	CURRENT BOWS	FYTD			YTD SCHEDULE VARIANCE		YTD COST VARIANCE		EAC
			BOWS	BCAP	ACWP	\$	%	\$	%	
RC01	68,776	69,964	29,878	27,243	27,163	-2,635	-8.8%	80	0.3%	69,813
RC02	9,444	10,614	2,636	2,352	2,188	-284	-10.8%	164	7.0%	10,622
RC05	24,259	27,128	10,191	10,040	9,856	-151	-1.5%	184	1.8%	27,360
<b>RCR-Subtotal</b>	<b>102,479</b>	<b>107,706</b>	<b>42,705</b>	<b>39,635</b>	<b>39,207</b>	<b>-3,070</b>	<b>-7.2%</b>	<b>428</b>	<b>1.1%</b>	<b>107,795</b>
CF01	32,663	26,309	12,974	12,492	12,066	-482	-3.7%	426	3.4%	25,444
<b>CPT-Subtotal</b>	<b>32,663</b>	<b>26,309</b>	<b>12,974</b>	<b>12,492</b>	<b>12,066</b>	<b>-482</b>	<b>-3.7%</b>	<b>426</b>	<b>3.4%</b>	<b>25,444</b>
SS03	17,141	12,321	6,649	6,536	6,341	-113	-1.7%	195	3.0%	12,223
SS04	3,382	7,900	3,495	3,378	3,362	-117	-3.3%	26	0.8%	7,911
<b>SI&amp;I-Subtotal</b>	<b>20,523</b>	<b>20,221</b>	<b>10,144</b>	<b>9,914</b>	<b>9,693</b>	<b>-230</b>	<b>-2.3%</b>	<b>221</b>	<b>2.2%</b>	<b>20,134</b>
SO01	71	79	12	11	9	-1	-8.3%	2	18.2%	78
<b>SS-Subtotal</b>	<b>71</b>	<b>79</b>	<b>12</b>	<b>11</b>	<b>9</b>	<b>-1</b>	<b>-8.3%</b>	<b>2</b>	<b>18.2%</b>	<b>78</b>
<b>ERC TOTAL</b>	<b>155,736</b>	<b>154,315</b>	<b>65,835</b>	<b>62,052</b>	<b>60,975</b>	<b>-3,783</b>	<b>-5.7%</b>	<b>1,077</b>	<b>1.7%</b>	<b>153,451</b>

**Schedule Variance Summary:**

Through February, the ER Project is \$3.8M (-5.7%) behind schedule. The negative schedule variance is attributed to late arrival of Reactor ISS excavator, delay of subcontractor key document submittals for DR Reactor SSE roof demolition, and higher-than-expected radiation readings at the F Reactor FSB. Recovery schedules for DR and F Reactor work have been implemented. Full recovery is expected by fiscal year-end.

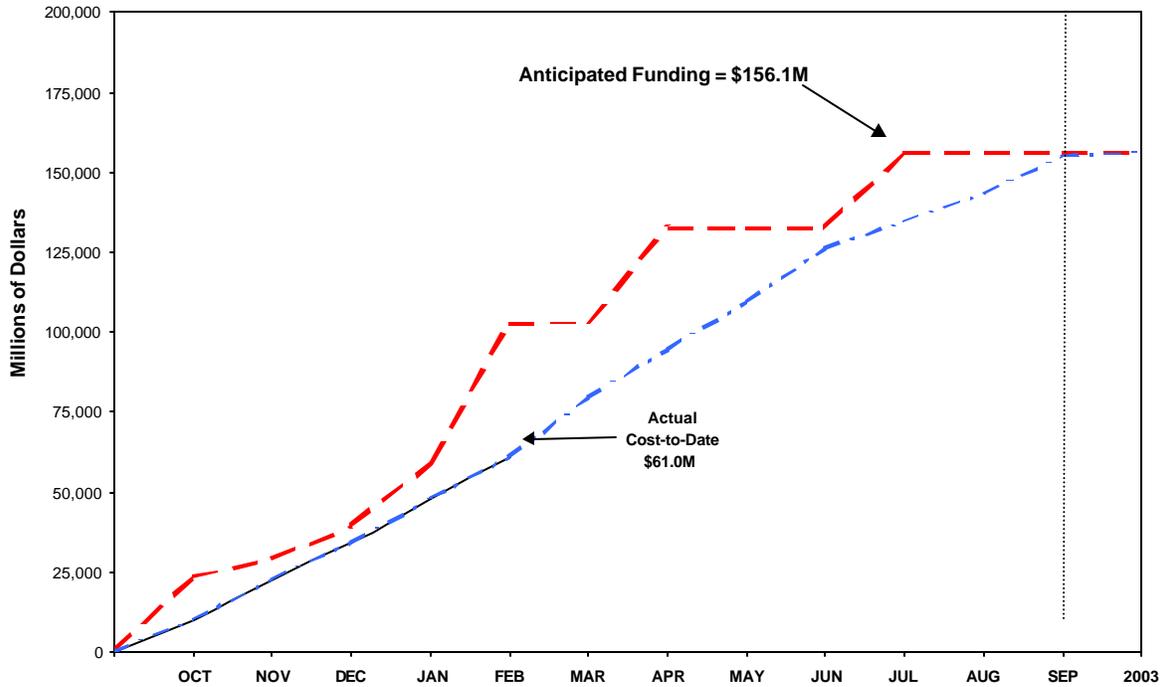
**Cost Variance Summary:**

At the end of February, the ER Project had performed \$62.1M worth of work, at a cost of \$61.0M. This results in a favorable cost variance of \$1.1M (+1.7%). The positive cost variance is attributed to lower labor and sampling costs at 100 F and 100 B/C remediation sites and the 200 Area groundwater assessment efforts.

# ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION FEBRUARY 2002

## TOTAL ERC COST/SCHEDULE OVERVIEW continued:

### FY02 FUNDS MANAGEMENT



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	2003	TOTAL
<b>ANTICIPATED FUNDING</b>	24,017	29,181	39,603	59,223	102,555	103,295	133,000	133,000	133,000	156,102	156,102	156,102	Est. Outyr. ETC	
<b>ACTUAL/EAC ON APPROVED SCOPE</b>														
1 Actual Cost Through February	10,237	22,627	34,413	47,864	60,976									
2 Current Monthly EACs	10,237	12,391	11,786	13,451	13,111	18,585	15,314	14,603	15,945	8,138	8,351	11,538		
3 Cumulative EAC	10,237	22,628	34,414	47,865	60,976	79,561	94,875	109,478	125,423	133,561	141,912	153,450	-	153,450
<b>MARCH FY2002 APPROVED BCPs (Through 3/20/02)</b>														
4 CP01 BCP-22053 Accelerate Structural Steel Removal @ 233-S									73	100	100	100		373
5 Subtotal Approved Scope Changes						0	0	0	73	100	100	100	0	373
<b>MARCH FY2002 PENDING BCPs</b>														
6 RC01 15,500 Tons Increased Contamination Ratio for 2nd Half of FY02								46	46	46	46	46		230
7 RC02 20,000 Tons of Contaminated Soil from 618-5 to ERDF								88	88	89	89	89		443
8 CP01 BCP-22029 Accelerate 200-ST-1 and 200-SW-2 RI/FS Work Plans							76	99	64	52	40	32		363
9 ALL BCP-22008 Waste Management Phase III Process Improvements							41	41	42	42	42	42		250
10 RC01 Reversal of Previous Equipment Cost Trend							(189)							(189)
11 ALL Pending Scope Additions, Deletions, Etc.						168	169	169	169	169	169	169		1,182
12 Subtotal Approved BCPs + Pending BCPs						0	117	274	313	329	317	309	0	2,652
13 Current Monthly EAC + March FY2002 Approved BCPs + Pending BCPs	10,237	12,391	11,786	13,451	13,111	18,585	15,431	14,877	16,258	8,467	8,668	11,847		-
14 Cumulative EAC + March FY2002 Approved BCPs + Pending BCPs	10,237	22,628	34,414	47,865	60,976	79,561	94,992	109,869	126,127	134,594	143,262	155,109	-	156,102

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**ISSUES (REGULATORY/EXTERNAL/DOE):**

See individual Outcome sections.

**KEY INTEGRATION ACTIVITIES:**

BHI and FH submitted their joint Central Plateau Transition Plan to RL on February 8. RL completed its review and chaired two meetings with BHI and FH to disposition comments on narrative, cost, and schedule. The final document is in preparation for a March submittal.

BHI and FH have jointly developed the first three sections of the draft River Corridor (RC) Transition Plan. Each contractor has developed the remainder of the draft plan based on the RC scope contained within each contract. Submittal of the draft plan is set for March 8.

**UPCOMING PLANNED KEY EVENTS:**

**River Corridor Restoration:**

Tri-Party Agreement Milestone M-16-00F, Establish Date for Completion of All 100 Area Remedial Actions (due December 31, 2001) was completed as scheduled. (Tri-Parties reached tentative agreement on the River Corridor negotiations on December 31, 2001. Proposed change packages are undergoing a public comment review period. A milestone completion letter will be transmitted to the regulators upon change package approval which is expected by April 30, 2002.)

Tri-Party Agreement Milestone M-93-12, Issue 105-DR Disposition Competitive Procurement Package, due February 28, 2002. (This milestone is being proposed for deletion in the draft River Corridor change package.)

**Central Plateau Transition:**

The tentative agreement for the Central Plateau (200 Area) negotiations (M-13, M-15, M-16, M-20 milestones) was completed and approved by the Tri-Parties on February 21. Proposed change packages are undergoing a public comment review period. Final approval of proposed changes is expected by June 5, 2002.

# Section B - River Corridor Restoration

*RC01 - 100 Area River Corridor Cleanup*

*RC02 - 300 Area Cleanup*

*RC05 - River Corridor Waste Management*



Dozer Removing Clean Overburden Above Pipelines at 100-BC Area



I16-F-9 Loadout with Trackhoe



Cutting of 60" Diameter Pipe at 100 F Area



Work at F Reactor Transfer Pit and Fuel Storage Basin

Data as of month-end February

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**SECTION B – RIVER CORRIDOR RESTORATION**

**Data as of month-end February**

**ACCOMPLISHMENTS:**

**100 Area River Corridor Cleanup (RC01):**

Plume excavation continued on pipelines 3 and 4 in the 100 B/C Area, with 12,701 metric tons (14,000 tons) of the estimated 13,608 metric tons (15,000 tons) completed. The two 1.1-meter (42-inch) gate valves from pipelines 20 and 42 were loaded and shipped to ERDF. Excavation of contaminated soils and clean overburden removal activities continued on pipelines 16 and 17. Excavation also now encompasses pipelines 18, 19, and 21.

In the 100 F Area, excavation activities continued at the 126-F-1 Ash Pit and the 116-F-9 Animal Waste Trench plumes. Clean overburden activities were completed at the 116-F-2 Trench in order to gain access to plumes. Overburden removal activities continued at the 1.1-meter (42-inch) and 1.5-meter (60-inch) pipelines west of F Avenue. Closeout sampling was completed at the 100-F-2 Strontium Garden and the 100-F-15 French Drain waste sites. Closeout verification packages (CVP) for the UPR-100-F-2 Basin Leak and the first CVP for the 100-F-19 Pipelines waste site were sent to the U.S. Environmental Protection Agency (EPA) for review.

In the 100 N Area, excavation of the last identified plume at 116-N-3 was completed in February. The Laser-Assisted Ranging and Data System (LARADS) surveys were completed, and variance/confirmation sampling will be initiated in March. Demolition and processing activities at the 116-N-1 Trench cover panels and girders were completed. Excavation/loadout of the contaminated material in the trench will be the primary activity through May. Exposure rates are only about 30 percent of the planned rates. The reduction is attributed to the ALARA practices that have been incorporated.

At D Reactor, demolition was completed below grade in the fan room/exhaust plenum areas (Area 3) during February.

DR Reactor SSE work continued. All concrete blocks were removed from the upper west wall, except for the bottom four rows that were temporarily left in place. They are being used as part of a barricade that postpones the need for fall protection in that area. Removal of the winch motors and Q-decking from the upper roof was also completed.

Demolition of the south wall of the F Reactor FSB was completed, as well as soil removal in the area outside of the FSB (south side). Soil was also removed outside of the transfer pit area in preparation for demolition.

At H Reactor, demolition activities were completed in the control room/lunch room area (Area 3). Transfer of water from the H Reactor FSB transfer pits to the holding tanks was also completed. This material was then pumped into an ETF tanker. The tanker made the final delivery to the ETF site on February 26. A total of 15 deliveries were made to the ETF, which equates to approximately 302,833 liters (80,000 gallons) of liquid. H and F Reactor FSB cleanout project representatives including Task Lead/Supervision, Engineering, Field Support, and Radiological Engineering met on February 22 and 25 to begin development of the H Reactor FSB cleanout strategy.

In the 100 Area, the three groundwater pump and treat systems (100-HR-3, 100-KR-4, and 100-NR-2) operated above the planned 90 percent availability levels in February, processing approximately 60.9 million liters of groundwater and removing approximately 4.58 kilograms of chromium and 0.01 curie of strontium. Since system inception, these three pump and treat systems have processed over 3 billion liters of groundwater, removing approximately 287 kilograms of chromium and 1.2 curies of strontium.

Installation of the 100-KR-4 groundwater pump and treat extraction well was completed in support of the CERCLA five-year upgrades.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**ACCOMPLISHMENTS continued:**

Installation of the FY02 In Situ Redox Manipulation (ISRM) Phase III barrier wells is progressing. Nine wells have been installed through February. A total of 17 wells are planned for installation. The subcontract for the mitigation soil sampling/well installation borehole was also awarded in February. The Washington State Department of Ecology (Ecology) has agreed to extend the ISRM Phase III Tri-Party Agreement Milestone M-16-27C completion date to June 30, 2003. The extension will allow for further evaluation of barrier effectiveness in capturing hexavalent chromium, plume concentration and mitigation anomalies, and changing aquifer conditions encountered during construction. An Explanation of Significant Difference (ESD) and change request are being prepared.

100 Area River Corridor surveillance and maintenance (S&M) activities continued through February. Characterization of the high-radiation entry into the 100 N Basin area resulted in downposting the entrance door of the N Basin facility from a high radiation area (HRA) to a contamination area (CA). HRA areas within the basin are now individually barricaded and posted, thus removing the requirement for an access control plan for the main entrance door to the basin.

**300 Area Cleanup (RC02):**

Subcontractor mobilization activities are progressing in support of the 618-4 and 618-5 Burial Ground remediation. Submittals are under review with a target completion date of March 15. A formal readiness assessment meeting is scheduled for March 26.

A decisional draft document, One-Time Request for Shipment for 618-4 Burial Ground Depleted Uranium Drums, was transmitted to RL for final review and approval. This document establishes the operational requirements necessary to ensure that the onsite transport of the depleted uranium drums is performed safely within specified parameters.

Internal review of the 300-FF-2 preliminary design was initiated. The design package addresses 300-FF-2 waste sites outside the 300 Area fence and one burial ground inside the fence, with the exception of the 618-10 and 618-11 Burial Grounds.

**River Corridor Waste Management (RC05):**

During February, ERDF received 44,005 metric tons (48,507 tons) of waste, for a total of 226,474 metric tons (249,645 tons) received to-date in FY02. A total of 3,087,100 metric tons (3,402,946 tons) have been disposed in ERDF since operations began in July 1996. ERDF Disposal personnel have worked 70 months without a lost-time accident, and the ERDF Transportation team has driven 9,392,875 kilometers (5,836,462 miles) without an at-fault vehicle accident.

EPA, RL, and the Washington State Department of Health signed the revised ERDF air monitoring permit. The permit was revised primarily to incorporate upcoming activities in the ERDF waste staging area.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS):**

<b>TPA Milestone</b>	<b>Description</b>	<b>Due Date</b>	<b>(F)/(A) Date</b>
M-16-00F*	Establish Date for Completion of All 100 Area Remedial Actions	12/31/01	12/31/01 (A)
M-16-27B	Complete 100-HR-3 Phase II, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)	12/31/01	11/20/01 (A)
M-93-12*	Issue 105-DR Disposition Competitive Procurement Package for Ascertaining the Most Effective and Efficient Approach to FEIS ROD Selected Alternative Implementation (....)	2/28/02	Proposed for deletion
M-16-26B	Complete Remediation and Backfill of 51 Liquid Waste Sites in the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, and 100-HR-1 Operable Units and Process Effluent Pipelines in the 100-DR-1, 100-DR-2, and 100-HR-1 OUs. Complete Revegetation of 36 Liquid Waste Sites in the 100-BC-1, 100-DR-1, 100-DR-2, and 100-HR-1 OUs as Defined in RDR/RAWP for the 100 Area	3/31/02	12/11/02 (A)
M16-41B	Submit Closeout Verification Package for JA Jones 1 and 600-23 Waste Sites for EPA Approval	3/31/02	11/30/01 (A)
M-16-03A*	Establish Date for Completion of 300 Area Remedial Actions	6/30/02	4/30/02 (F)
M-16-03G	Establish an Environmental Restoration Disposal Facility (ERDF) Staging Area that is Ready to Receive Drummed Waste from the 618-4 Burial Ground in Accordance with an ERDF Record of Decision Amendment	9/30/02	4/05/02 (F)
M-16-27C**	Complete 100-HR-3 Phase III, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)	9/30/02	6/30/03 (F)
M-16-41C	Complete Backfill and Regrading of JA Jones 1 and 600-23. Revegetation will occur during the following planting season	TBD	12/14/01 (A)

\*Tri-Parties reached tentative agreement on the River Corridor negotiations on December 31, 2001. Proposed change packages are undergoing a public comment review period. Final approval of proposed changes is expected by April 30, 2002.  
\*\*Ecology has agreed to extend the completion date to June 30, 2003. An ESD and change request are being prepared.

**PERFORMANCE OBJECTIVES:**

RL has not formally transmitted final FY02 PIs to BHI.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**PERFORMANCE MEASURES/METRICS:**

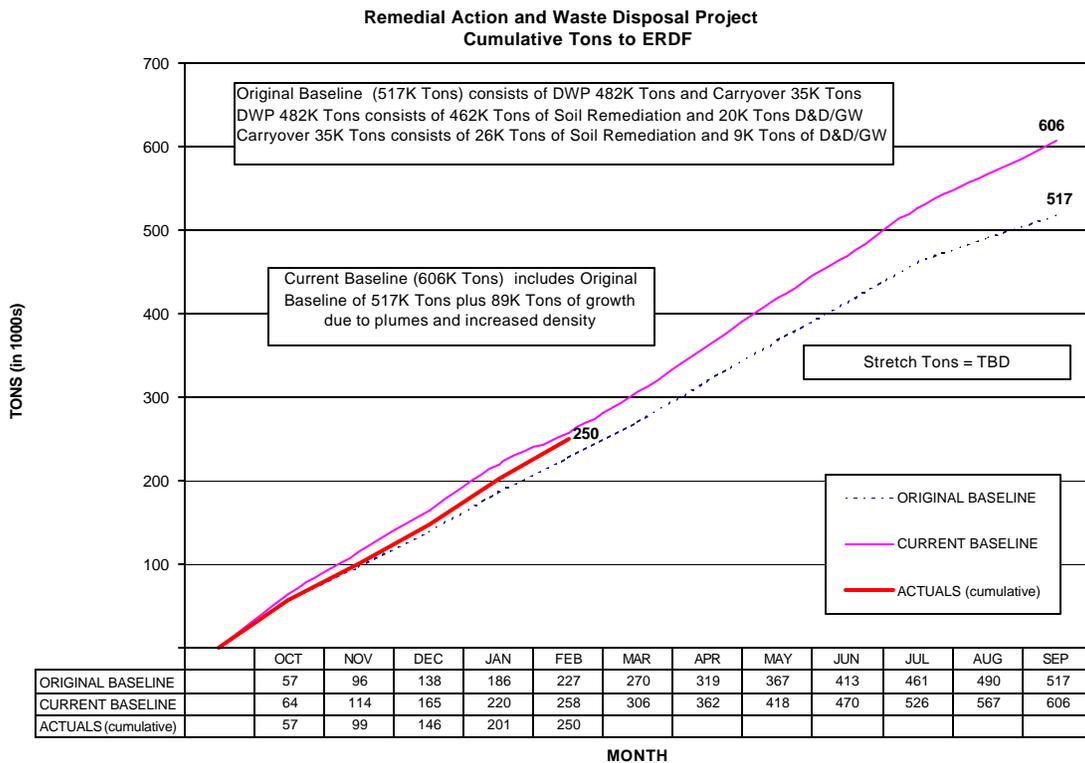
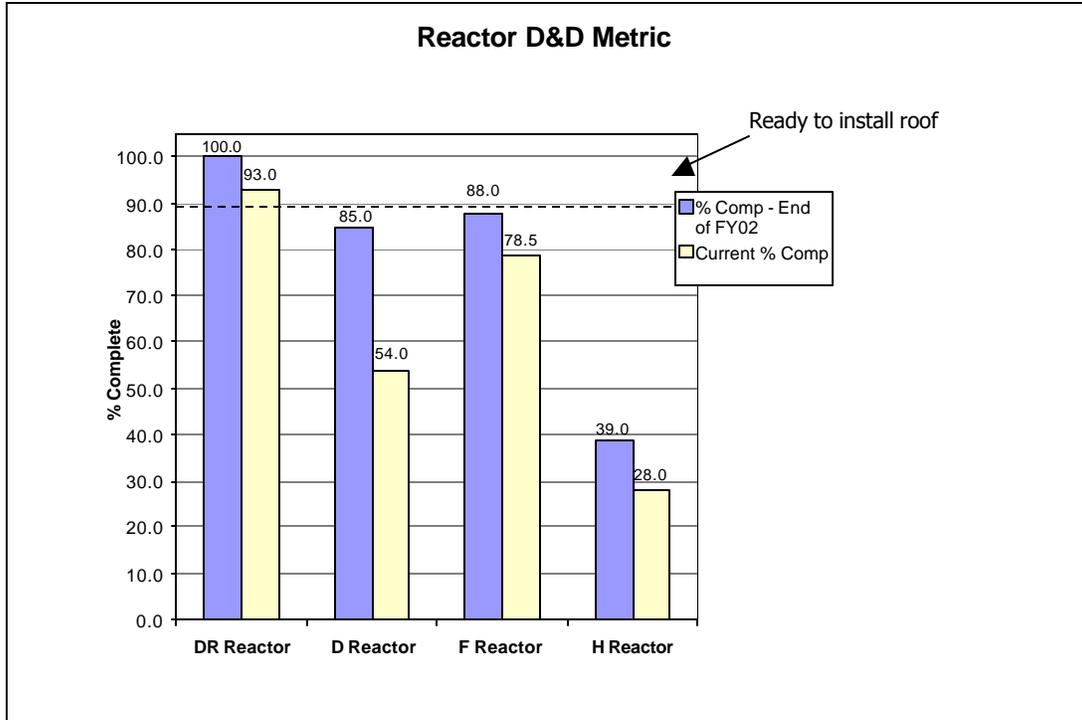
**FY02 Performance Measures Summary:**

<b>PBS</b>	<b>Description</b>	<b>FY02 Mgmt Commit</b>	<b>Current Baseline Due Date</b>	<b>Forecast (F) Actual (A) Date</b>
RC01	Complete Excavation – 100-F-2	X	11/30/01	1/26/02 (A)
RC01	Complete Excavation – 100-F-15	X	5/1/02	12/7/01 (A)
RC01	Complete Excavation – 100-F-19 (Segment 2)	X	8/12/02	8/12/02 (F)
RC01	Complete Excavation – 116-F-2	X	10/12/01	TBD (F)
RC01	Complete Excavation – 126-F-1	X	6/5/02	5/31/02 (F)
RC01	Complete Excavation - 116-F-14	X	11/30/01	12/13/01 (A)
RC01	Complete Excavation - 116-F-9	X	11/26/01	TBD (F)
RC01	Complete Excavation - 1607-F-2	X	7/30/02	7/11/02 (F)
RC01	Complete Excavation – 116-N-3	X	1/3/02	2/5/02 (A)
RC02	Complete Excavation – 618-4	X	8/15/02	8/15/02 (F)
<b>Total</b>		<b>10*</b>	<b>10</b>	<b>6 (F) 4 (A)</b>

\*IPABS currently reporting 12 (change request pending). Performance measure commitments revised due to formal funding guidance received from RL in January and required project rebaselining.

# ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION FEBRUARY 2002

## PERFORMANCE MEASURES/METRICS:



**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**STRETCH AND SUPERSTRETCH GOALS:**

RL has not formally transmitted final FY02 goals to BHI.

**OUTCOME STATUS (COST/SCHEDULE):**

**Schedule:**

River Corridor Restoration	BCWS	BCWP	Variance
	\$K	\$K	\$K
RC01 100 Area River Corridor Cleanup	29,878	27,243	(2,635)
RC02 300 Area Cleanup	2,636	2,352	(284)
RC05 River Corridor Waste Management	10,191	10,040	(151)
<b>TOTAL River Corridor Restoration</b>	<b>42,705</b>	<b>39,635</b>	<b>(3,070)</b>

**PBS-RC01 – 100 Area River Corridor Cleanup**

Schedule Variance = **(\$2635K); (8.8%)** [Last Month: (\$4651K); (17.8%)]

**Cause:** Reactor ISS excavator did not arrive in December as planned.

**Resolution:** Not a critical path activity. Delivery of excavator expected in March.

**Cause:** Demolition of DR Reactor SSE roof behind schedule due to delays in subcontractor key document submittals.

**Resolution:** Key documents completed, and demolition initiated the end of January. Subcontract has been modified to extend completion date of DR Reactor roof.

**Cause:** F Reactor FSB demolition and loadout activities took more time than planned due to increased radiation dose rates.

**Resolution:** Recovery schedule implemented. Full recovery is expected by fiscal year-end.

**PBS-RC02 – 300 Area Cleanup**

Schedule Variance = **(\$284K); (10.8%)** [Last Month: (\$1152K); (39.1%)]

**Cause:** 300-FF-1 staging facility and support documentation behind schedule due to awaiting regulator comments on CVPs.

**Resolution:** Per regulator request, CVPs will be completed after ongoing Kd study impacts can be incorporated, which is anticipated in August. Final CVP completion date is undergoing project review.

**PBS-RC05 – River Corridor Waste Management**

Schedule Variance = **(\$151K); (1.5%)** [Last Month: (\$449K); (5.1%)]

**Cause:** Inclement weather and project-related delays in shipping waste delayed ERDF operations.

**Resolution:** Schedule recovery expected.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**OUTCOME STATUS (COST/SCHEDULE) continued:**

**Cost:**

River Corridor Restoration	FY02 EAC	BCWP	ACWP	Variance
	\$K	\$K	\$K	\$K
RC01 100 Area River Corridor Cleanup	69,813	27,243	27,163	80
RC02 300 Area Cleanup	10,622	2,352	2,188	164
RC05 River Corridor Waste Management	27,360	10,040	9,856	184
<b>TOTAL River Corridor Restoration</b>	<b>107,795</b>	<b>39,635</b>	<b>39,207</b>	<b>428</b>

**PBS-RC01 – 100 Area River Corridor Cleanup**

Cost Variance = **\$80K; 0.3%** [Last Month: \$758K; 3.5%]

**Cause:** Labor and sampling costs at 100 F and 100 B/C Areas lower than planned.

**Resolution:** Current 100 B/C underruns expected to be offset by overruns from more extensive pipeline trench contamination than anticipated.

**Cause:** Less hazardous material discovered at D Reactor than expected, offset by excessive equipment repairs.

**Resolution:** Overrun reflected in EAC.

**PBS-RC02 – 300 Area Cleanup**

Cost Variance = **\$164K; 7.0%** [Last Month: \$154K; 8.6%]

**Cause:** 618-10/11 burial ground engineering study required less labor than planned.

**Resolution:** 618-10/11 underrun has been reflected in EAC.

**PBS-RC05 – River Corridor Waste Management**

Cost Variance = **\$184K; 1.8%** [Last Month: \$423K; 5.1%]

**Cause:** Lower driver and subcontract costs due to elimination of planned overtime.

**Resolution:** Overtime and subcontract costs expected to increase in spring/summer months to recover schedule.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**ISSUES (REGULATORY/EXTERNAL/DOE):**

**Decontamination and Decommissioning (D&D) Worker Turnover:** 16 out of 17 Reactor ISS D&D staff have transferred through the Labor Assets Management Program (LAMP) process since the beginning of FY01.

**Status:** The remaining experienced worker knowledge base continues to be lost. The project is continually rearranging staff for more experienced personnel to support critical work (F Basin).

**100 N Area:** The RCRA permit and the Record of Decision (ROD) for the 100-NR-1 TSD sites state that Certification of Closure will be achieved approximately three years after commencement of remedial actions (July 2003). The extent of plumes excavated from the 116-N-3 site and the anticipated plumes identified at the 116-N-1 site indicate that Certification of Closure will not be completed until FY04.

**Status:** Discussions were initiated with the regulators regarding the need for a modification to the RCRA permit schedule. The discussions resulted in guidance from the regulators to monitor the progress of the work and not initiate a modification to the RCRA permit unless excavation and backfilling could not be accomplished by the end of calendar year 2003. Issue closed.

**INTEGRATION ACTIVITIES:**

None identified at this time.

# Section C - Central Plateau Transition

*CP01 - 200 Area Remediation*



Removing Miscellaneous Piping at 233-S



NPO Obtaining Chemical Material Identification  
Prior to Packaging at Redox 202-S

Data as of month-end February

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

## **SECTION C – CENTRAL PLATEAU TRANSITION**

**Data as of month-end February**

### **ACCOMPLISHMENTS:**

#### **200 Area Remediation (CP01):**

Central Plateau Remediation and Groundwater Monitoring Activities:

Well construction and development was completed at PFP in support of the carbon tetrachloride investigation; well decommissioning of the first borehole wa0s also completed.

In the 200 Area, both groundwater pump and treat systems (200-UP-1 and 200-ZP-1) operated above the planned 90 percent availability levels in February, processing approximately 25.4 million liters of groundwater. Since system inception, these two pump and treat systems have processed approximately 2.3 billion liters of groundwater. Approximately 58 kilograms of carbon tetrachloride were removed by 200-ZP-1 in February. Approximately 6,275 kilograms of carbon tetrachloride have been removed by 200-ZP-1 to date. Approximately 567.6 million liters of groundwater have been transported to the ETF for processing since 200-UP-1 began operation. 343 million liters were previously processed prior to using ETF.

Rebaselining of the ERC Projects was completed to align with RL-approved funding guidance and to support transition to FH on June 30, 2002.

The passive neutron logging of geoprobe locations at the 216-Z-11 Ditch and 200-CW-5-U-Pond/Z-Ditches cooling water waste groups was completed.

Two innovative technologies were deployed at the 216-Z-11 Trench with the Small-Diameter Geophysical Logging system: 1) the advanced gamma-spectroscopy logging tool, and 2) the passive neutron geophysical logging tool. The data obtained from these technologies were used to accurately locate the area with the highest plutonium concentrations. This area will be the site of upcoming borehole drilling to collect samples for laboratory analysis.

The operating plan was approved for the 200-PW-1 soil vapor extraction system to resume operations in April.

#### **233-S Plutonium Concentration Facility Decommissioning:**

Vessels L-2, L-8, and 3 meters (10 feet) of vessel L-10F were removed. Thirteen (13) vessels have been removed of the 15 total vessels planned for removal by June 30. Removal of the remaining two vessels is planned to be completed in March. Scaffold erection for access to vessels L-15 and L-10W was also completed. In addition, 118 meters (386 feet) of miscellaneous pipe were removed. 4 standard waste boxes (SWBs), 2 waste drums, and 21 waste packages were assayed. 646 NDA final drum data packages were received.

#### **Central Plateau S&M Activities:**

Interim stabilization work was completed at the 211-U Tank Farm area.

The final report for the U Plant railroad cut Remedial Action Radiation Area (RARA) interim stabilization was completed.

The Canyon Disposition Initiative (CDI) was nominated for the Project Management Institute (PMI) 2002 Project of the Year award.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**ACCOMPLISHMENTS continued:**

Comments were received from EPA Region 10 for incorporation into the CDI Proposed Plan.

Fabrication of the training mock-up for the B Plant HEPA filter changeout was completed. Several employees also took part in training scenarios using the mock-up to develop a procedure supportive of ALARA and safety practices.

Site mobilization was completed for the accelerated 200 Area asbestos removal workscope.

An Unreviewed Safety Question (USQ) was issued for the hexone safety analysis report.

**MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS):**

<b>TPA Milestone</b>	<b>Description</b>	<b>Due Date</b>	<b>(F)/(A) Date</b>
M-13-26	Submit Plutonium/Organic-Rich Process Waste Group (200-PW-1) Work Plan	12/31/01	12/26/01 (A)
M-13-00L	Submit 3 200 NPL RI/FS (RFI/CMS) Work Plans	12/31/01	12/26/01 (A)
M-15-40A*	Complete U Pond/Z Ditches Cooling Water Group Field Work Through Sample Collection and Analysis	9/30/02	Proposed for deletion
M-15-42B*	Submit 200-TW-2 OU Draft A Remedial Investigation Report to Ecology	9/30/02	Proposed for deletion
M-15-41B*	Submit 200-TW-1 OU Draft A Remedial Investigation Report to EPA	10/30/02	10/30/02 (F)
M-13-00M*	Submit 3 200 NPL RI/FS (RFI/CMS) Work Plans	12/31/02	12/31/02 (F)
M-20-39*	Submit 216-S-10 Pond and Ditch Closure/Post Closure Plan to Ecology in Coordination with the Work Plan for the Chemical Sewer Group	2/28/03	11/30/05 (F)
M-15-38A*	Submit Draft A Gable Mountain Pond/B Pond and Ditch Cooling Water Group Feasibility Study and 216-B-3 Pond System RCRA TSD Unit Closure Plan and Submit Draft A Gable Mountain Pond/B Pond and Ditch Cooling Water Group Proposed Plan/Proposed RCRA Permit Modification	3/31/03	3/31/03 (F)

\*Milestones are addressed in the Central Plateau draft change packages currently undergoing public comment review period. Final approval of proposed changes is expected by June 5.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**PERFORMANCE OBJECTIVES:**

PI	Task	Status
233-S*	<ul style="list-style-type: none"> <li>8 vessels by 6/30/02</li> <li>7 additional vessels by 6/30/02 (Stretch)</li> </ul>	Vessel removal is expected to be completed in March.



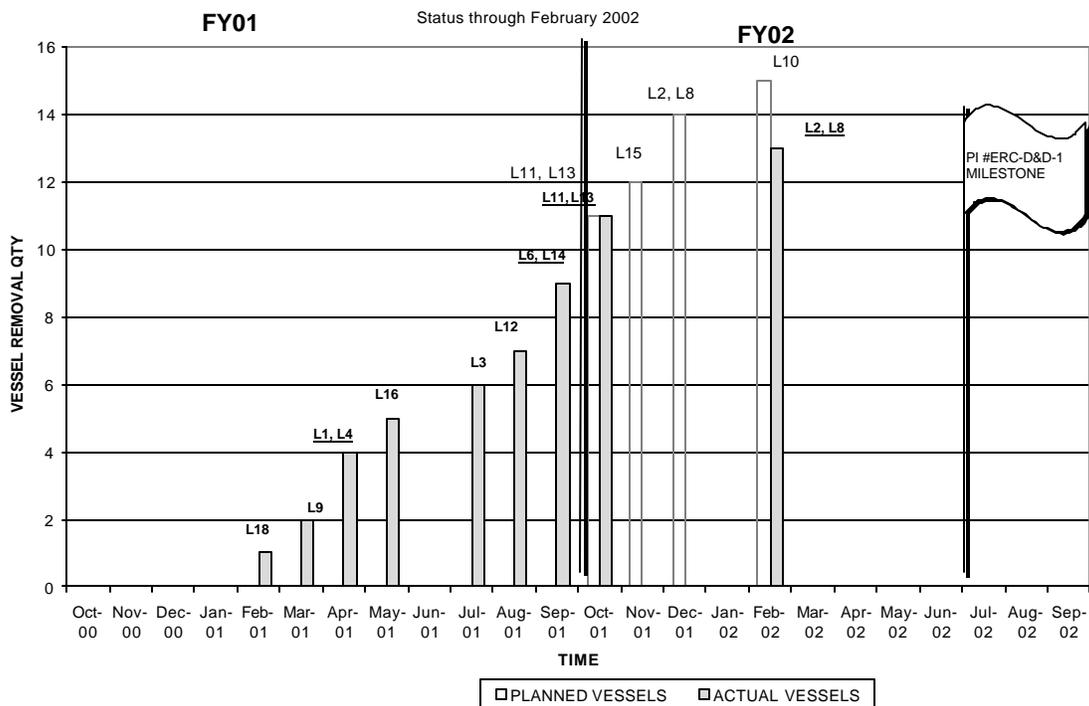
\*Multi-year PI developed in FY01. RL has not formally transmitted final FY02 PIs to BHI.

**PERFORMANCE MEASURES/METRICS:**

Technology Deployment	PBS	Planned Date	(F)/(A) Date
Protean Gas Flow Proportional Counter	CP01		10/01 (A)
*Small-Diameter Geophysical Logging System Passive Neutron Logging Probe	CP01	3/31/02	2/02 (A)
*Small-Diameter Geophysical Logging System Gamma Logging Probe	CP01	3/31/02	2/02 (A)

\* ERC identified two technologies for Central Plateau Transition to be deployed during FY02.

**VESSEL REMOVAL SCHEDULE**



**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**STRETCH AND SUPERSTRETCH GOALS:**

RL has not formally transmitted final FY02 goals to BHI.

**OUTCOME STATUS (COST/SCHEDULE):**

**Schedule:**

Central Plateau Transition	BCWS	BCWP	Variance
	\$K	\$K	\$K
CP01 200 Area Remediation	12,974	12,492	(482)
<b>TOTAL Central Plateau Transition</b>	<b>12,974</b>	<b>12,492</b>	<b>(482)</b>

**PBS-CP01 – 200 Area Remediation**

Schedule Variance = **(\$482K); (3.7%)** [Last Month: (\$1435K); (12.7%)]

**Cause:** Hexone interim stabilization activities behind schedule due to regulator issue resolution and associated delay in reaching alternative regulator selection decision.

**Resolution:** Hexone tank stabilization alternative approved by regulators; resolution of final compliance issues will be accomplished before contract termination. Recovery schedule is being implemented.

**Cause:** Process hood vessel waste disposal activities at 233-S facility D&D project behind schedule due to NDA issues requiring new subcontract placement.

**Resolution:** New NDA subcontract signed and work commenced. First waste shipment to Central Waste Complex (CWC) scheduled for March.

**Cost:**

Central Plateau Transition	FY02 EAC	BCWP	ACWP	Variance
	\$K	\$K	\$K	\$K
CP01 200 Area Remediation	25,444	12,492	12,066	426
<b>TOTAL Central Plateau Transition</b>	<b>25,444</b>	<b>12,492</b>	<b>12,066</b>	<b>426</b>

**PBS-CP01 – 200 Area Remediation**

Cost Variance = **\$426K; 3.4%** [Last Month: \$188K; 1.9%]

**Cause:** D&D at 233-S facility performed with fewer craft resources.

**Resolution:** Underrun reflected in EAC.

**Cause:** Reduced RARA equipment costs.

**Resolution:** Underrun reflected in EAC.

**Cause:** 200 Area work plan and drilling efficiencies.

**Resolution:** Underrun reflected in EAC.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**ISSUES (REGULATORY/EXTERNAL/DOE):**

**Standard Waste Box (SWB):** The existing SWB Safety Analysis Report for Packaging (SARP) has not been revised in approximately nine years and no revisions are planned. Multiple Hanford Site contractors are procuring SWB containers to a drawing revision more recent than that listed in the SARP. Lack of an up-to-date SARP may preclude shipment of transuranic (TRU) waste to CWC.

**Status:** It has been determined the SWB SARP will not be included in the Hanford Site-wide Transportation Safety Document (TSD). A work order was prepared to obtain a DOE-approved Package Specific Safety Document (PSSD) by March 15, or revision to the existing SWB SARP. The revision to the SARP has begun. Resolution of technical issues and comments provided by the multiple organizations involved in this effort have put this task behind schedule. Approval of the SARP and Safety Evaluation Report (SER) that will approve its use is expected to occur by April 19. Additional delays may impact the shipment of eight SWBs from 233-S.

**Central Waste Complex (CWC):** Authorization Basis and Fire Hazards Analysis issues at CWC have caused them to temporarily restrict the receipt of waste. These restrictions are outside of BHI's control and may prevent shipment of waste from 233-S.

**Status:** TRU waste can be shipped directly to Waste Receiving and Processing (WRAP) for radiography and then to CWC. EPA has agreed to this plan providing that the shipments do not remain at WRAP for longer than 30 days.

**INTEGRATION ACTIVITIES:**

EPA approval was received in December to remove the REDOX generator from service. BHI is preparing to relocate the diesel generator to the Waste Treatment Plant (WTP).

# Section D - Site Integration & Infrastructure

SS03 - Groundwater Management & Monitoring

SS04 - Groundwater/Vadose Zone Integration



Well Decommissioning Activities  
Along the River Corridor



Sampling Enclosure in 200 Area



Air Rotary Drilling  
in 200 Area



Drilling New Injection Well



Unloading Purgewater Truck Contents

Data as of month-end February

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**SECTION D – SITE INTEGRATION & INFRASTRUCTURE**

**Data as of month-end February**

**ACCOMPLISHMENTS:**

**Groundwater Management and Monitoring (SS03):**

The "Hanford Site Groundwater Monitoring for FY2001" final report was transmitted to RL in February.

A briefing paper was provided to RL in response to Nez Perce Tribe comments on a white paper that Pacific Northwest National Laboratory (PNNL) prepared to address trichloroethylene (TCE) in groundwater beneath the Horn Rapids landfill.

**Groundwater/Vadose Zone Integration (SS04):**

The first groundwater monitoring strategy technical meeting was held to update the site-wide groundwater strategy as recommended by Hanford's C3T process.

An Expert Panel reformatting workshop was held with RL, HQ, ORP, Panel Chairman, and Integration Project staff to realign the panel with the current project baseline.

Coordination of inventory and simulations was initiated among SAC, River Protection Project (RPP) Vadose Zone, and RPP Tank Closure tasks.

Testing of the new SAC supercomputer hardware was initiated following installation of the software.

The soil and groundwater remediation workshop was held in February to develop input needed for update of the S&T roadmap. The workshop participants included other national laboratories, Hanford Site contractors, RL and ORP, regulators, Tribal Nations, and stakeholders.

A PNNL paper was presented at the Waste Management '02 Conference that provided an update for implementation of the Science and Technology (S&T) roadmap and linkages with the Environmental Management Science Program.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS):**

<b>TPA Milestone</b>	<b>Description</b>	<b>Due Date</b>	<b>(F)/(A) Date</b>
M-24-53	Install Two (2) Additional Wells at SST WMA TX-TY	12/31/01	11/8/01 (A)
M-24-54	Install One (1) Additional Well at SST WMA T	12/31/01	10/18/01 (A)
M-24-55	Install Two (2) Additional Wells at SST WMA S-SX	12/31/01	11/8/01 (A)
M-24-00M	Install RCRA Groundwater Monitoring Wells at Rate of Up to 50 in Calendar Year 2001 if Required	12/31/01	11/8/01 (A)
M-24-00N*	Install RCRA Groundwater Monitoring Wells at Rate of Up to 50 in Calendar Year 2002 if Required	12/31/02	*

\*Currently being negotiated under C3T process.

**PERFORMANCE OBJECTIVES:**

RL has not formally transmitted final FY02 PIs to BHI.

**PERFORMANCE MEASURES/METRICS:**

ERC identified one technology for Site Integration and Infrastructure to be deployed during FY02.

<b>Technology Deployment</b>	<b>PBS</b>	<b>Planned Date</b>	<b>(F)/(A) Date</b>
Advanced Tensiometer	SS04	3/31/02	3/31/02 (F)

**STRETCH AND SUPERSTRETCH GOALS:**

RL has not formally transmitted final FY02 goals to BHI.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**OUTCOME STATUS (COST/SCHEDULE):**

**Schedule:**

Site Integration & Infrastructure	BCWS	BCWP	Variance
	\$K	\$K	\$K
SS03 – Groundwater Management & Monitoring	6,649	6,536	(113)
SS04 - Groundwater/Vadose Zone Integration	3,495	3,378	(117)
<b>TOTAL Site Integration &amp; Infrastructure</b>	<b>10,144</b>	<b>9,914</b>	<b>(230)</b>

**PBS-SS03 – Groundwater Management and Monitoring**

Schedule Variance = (\$113K); (1.7%) [Last Month: (\$194K); (3.3%)]

**Cause:** PNNL groundwater monitoring behind schedule due to late start on site environmental report.

**Resolution:** Schedule recovery expected.

**PBS-SS04 – Groundwater/Vadose Zone Integration**

Schedule Variance = (\$117K); (3.3%) [Last Month: (\$1177K); (28.2%)]

**Cause:** Late arrival of SAC computer system; several large components did not arrive as expected.

**Resolution:** SAC computer system arrived in February; components were loaned to allow testing to begin.

**OUTCOME STATUS (COST/SCHEDULE) continued:**

**Cost:**

Site Integration & Infrastructure	FY02 EAC	BCWP	ACWP	Variance
	\$K	\$K	\$K	\$K
SS03 – Groundwater Management & Monitoring	12,223	6,536	6,341	195
SS04 - Groundwater/Vadose Zone Integration	7,911	3,378	3,352	26
<b>TOTAL Site Integration &amp; Infrastructure</b>	<b>20,134</b>	<b>9,914</b>	<b>9,693</b>	<b>221</b>

**PBS-SS03 – Groundwater Management and Monitoring**

Cost Variance = \$195K; 3.0% [Last Month: \$422K; 7.3%]

**Cause:** Underruns due to reduced effort for preparation of annual report, capital well installation, and data interpretation.

**Resolution:** Underrun may be needed to offset impacts of budget reduction on groundwater sampling.

**PBS-SS04 – Groundwater/Vadose Zone Integration**

Cost Variance = \$26K; 0.8% [Last Month: \$337K; 11.2%]

**Cause:** Accrual errors.

**Resolution:** Accruals will be corrected in March.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT  
ENVIRONMENTAL RESTORATION  
FEBRUARY 2002**

**ISSUES (REGULATORY/EXTERNAL/DOE):**

None identified at this time.

**INTEGRATION ACTIVITIES:**

None identified at this time.