

Environmental Management Performance Report

June 2001



Brokk™ Testing for Potential Use at F Reactor Fuel Storage Basin



Excavator Loading Material in the 600-23 Waste Site



Overburden Removal at South Lewis Canal Lateral Pipeline

***Focused on Progress...
Focused on Outcomes!***

Financial/Performance Measures data as of month-end April.
All other data as of May 24 (unless otherwise noted).



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0105092a.3

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

TABLE OF CONTENTS

INTRODUCTION	1
SECTION A – EXECUTIVE SUMMARY	2
NOTABLE ACCOMPLISHMENTS	3
MAJOR COMMITMENTS	5
SAFETY/ISMS/CONDUCT OF OPERATIONS	6
REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS	12
TOTAL COST/SCHEDULE OVERVIEW	13
PERFORMANCE OBJECTIVES	16
KEY INTEGRATION ACTIVITIES	16
UPCOMING PLANNED KEY EVENTS	16
SECTION B – RESTORING THE RIVER CORRIDOR PROJECT SUMMARIES	17
REMEDIAL ACTION AND WASTE DISPOSAL PROJECT	18
DECOMMISSIONING PROJECTS	27
PROGRAM MANAGEMENT AND SUPPORT	34
SECTION C – TRANSITIONING THE CENTRAL PLATEAU PROJECT SUMMARIES	40
GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT	41
SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS	50

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2001

INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report consists of three sections: Section A - Executive Summary, Section B - Restoring the River Corridor Project Summaries, and Section C - Transitioning the Central Plateau Project Summaries. All cost, schedule, milestone commitments, performance measures, and safety data is current as of April 30. Accomplishments, Issues and Integration items are current as of May 24, unless otherwise noted.

Section A – Executive Summary. This section provides an executive level summary of Bechtel Hanford, Inc.'s (BHI) performance information for the current reporting month and is intended to bring to Management's attention that information considered to be most noteworthy. 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 cleanup. Major commitments are summarized that encompass *Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)* milestones, and FY01 Environmental Management (EM) corporate performance measures. Safety statistics are also included. Issues that require management and/or regulator attention and resolution status are addressed. Fiscal year-to-date ERC Project cost and schedule variance analysis is summarized. The Key Integration Activities section highlights site activities that cross contractor boundaries and demonstrates the shared value of working as a team to accomplish the work. The Executive Summary ends with a listing of major upcoming planned key events within a 90-day period.

Section B – Restoring the River Corridor. This section contains more detailed monthly activity information and performance status for the three projects within the 'Restoring the River Corridor' outcome. These three projects consist of the Remedial Action and Waste Disposal (RAWWD) Project, Decommissioning Projects, and the Program Management and Support (PM&S) Project.

Section C – Transitioning the Central Plateau. This section contains more detailed monthly activity information and performance status for the two projects within the 'Transitioning the Central Plateau' outcome. These two projects consist of the Groundwater/Vadose Zone (GW/VZ) Integration Project and the Surveillance/Maintenance and Transition (SM&T) Projects.

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 requiring immediate corrective actions.

Section A: Executive Summary

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

SECTION A – EXECUTIVE SUMMARY

Financial / Performance Measures data as of month-end April.
All other data as of May 24, 2001 (unless otherwise noted).

NOTABLE ACCOMPLISHMENTS:

RIVER CORRIDOR:

On May 5, 2001, the Environmental Restoration (ER) Project's Environmental Restoration Disposal Facility (ERDF) Transportation team logged 5 million miles without an at-fault accident. This is a significant achievement that dates back to 1996 when the first load of waste was delivered from the 100-BC waste site to ERDF. Constant focus on safety and excellent teamwork among the ERC Hanford Atomic Metal Trades Council (HAMTC) drivers/mechanics and ERC subcontractor have made this accomplishment possible.

In the 100 F Area, excavation and removal activities for the remaining 1607-F6 pipeline were completed during April. Overburden excavation and removal were also completed for the 100-F-19 south and north Lewis Canal pipeline laterals, with the exception of several small sections of the south lateral.

Backfill operations were initiated at the 100-HR-1 Operable Unit during April. Work continued on completing the two remaining cleanup verification packages (CVPs) for 100-H-24 and 116-H-7 waste sites.

In the 100 N Area, the first two concrete cuts on the 116-N-3 Crib distribution trough were completed during April. Trough removal is planned for completion in June. Removal of the overburden at the 116-N-3 pipeline began in preparation for pipeline and bypass demolition. The overburden is being stockpiled for use as backfill upon removal of the pipelines and bypass. Approval was received in April to proceed with remediation of an additional 40,823 metric tons (45,000 tons) of plumes and additional shielding soil at the 116-N-3 Trench and Crib.

The 300-FF-2 Operable Unit Interim Record of Decision (ROD) was approved on April 5. The ROD is the decision document that identifies the preferred remedial action alternative for waste removal, treatment, and disposal methods. Approval of this ROD completes all required regulatory documents necessary to proceed with cleanup of remaining contaminated sites in the 300 Area.

A baseline change proposal (BCP) was approved to treat and dispose of the 78 uranium oxide powder drums currently staged in the 618-4 Burial Ground. This workscope will be performed in lieu of initiating treatment of the uranium metal/oil drums this fiscal year.

Confirmation sampling was initiated to verify completion of contamination removal at the J.A. Jones waste site. Loading and hauling operations were completed May 15 at the 600-23 waste site. Planning and preparations are underway for packing and shipping the black tar material encountered at the 600-23 waste site. The drums will be sent to Fluor Hanford (FH) for offsite treatment.

The contract was awarded in May for the installation of F and DR Reactors' safe storage enclosures (primarily roof structure). The Safety Analysis Report Plan (SARP), Rev. 0 was also approved and issued on April 26.

During April, 233-S Plutonium Concentration Facility work activities included the removal of the L-1 vessel. This completes the third of 15 vessels that are planned for removal by June 2002. Activities were also initiated in preparation for removal of the next vessel (L-4).

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

NOTABLE ACCOMPLISHMENTS continued:

On April 26, all Environmental Restoration Contractor (ERC) personnel participated in a 1-2 hour safety standdown. Statistics indicate that during the spring and summer months an increased number of injuries are sustained both on and off the job. ERC employees were asked during the standdown to rededicate themselves to making safety a personal value. Discussions centered on how ERC employees can commit to being injury free each and every day for the welfare of their families, coworkers, and themselves.

Updates were completed for the U.S. Department of Energy (DOE) Headquarters (HQ) Integrated Planning and Budgeting System (IPABS) reporting system. Updates included stream disposition data and FY02-03 budget data. Unit of analysis data were also provided for the Integrated Priority List (IPL) in support of the upcoming FY03 budget development activities. Support was also provided for various FY02 funding exercises as requested by DOE Richland Operations Office (RL) and HQ.

CENTRAL PLATEAU:

The Groundwater/Vadose Zone (GW/VZ) Integration Project held its ninth Expert Panel meeting on April 25-27. This meeting focused on the GW/VZ Project status and transition strategy.

The U.S. Environmental Protection Agency (EPA) approved the Sampling and Analysis Plan (SAP) for the tritium investigation soil gas work to be performed at the 618-11 Burial Ground. Installation and sampling of the soil gas probes were initiated.

On April 2, *Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)* Milestone M-24-50, "Install Two Additional RCRA Wells at SST WMA TX-TY" (due April 30) was completed one month ahead of schedule.

All groundwater pump and treat systems operated above the planned 90% availability levels in April. Since system inception, the five pump and treat systems have processed over 5 billion liters of groundwater, removing approximately 5,367 kilograms of carbon tetrachloride, 237 kilograms of chromium, and 1.01 curies of Strontium-90. Approximately 693 million liters of groundwater have been processed in FY01, removing approximately 786 kilograms of carbon tetrachloride, 44 kilograms of chromium, and 0.122 curies of Strontium-90.

The 200-ZP-2 soil vapor extraction system was successfully restarted in April as planned. Approximately 444 million liters of groundwater were processed during April, removing 99 kilograms of carbon tetrachloride. Planning is underway for the construction of a new groundwater well at the Plutonium Finishing Plant (PFP).

A *Tri-Party Agreement* change request was approved on April 19 that revised the completion date for Milestone M-13-26, "Submit Plutonium/Organic-Rich Process Waste Group (200-PW-1) Work Plan" from June 30, 2001 to December 31, 2001.

The drilling contract was awarded for the 200-TW-1 and 200-TW-2 Operable Units FY01 field characterization activities.

Site surveillance and maintenance (S&M) activities proceeded in April to ensure inactive facility integrity and safety. Asbestos abatement activities were initiated at the 181-N pumphouse located in the 100 N Area. Approximately 217 cubic meters (712 cubic feet) of nonradioactive, friable asbestos is planned for removal. Internal review was completed for the B Reactor Engineering Evaluation/Cost Analysis (EE/CA) documents. Draft A of the EE/CA was submitted to RL, EPA, and the Hanford Advisory Board (HAB) for review and comment.

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

MAJOR COMMITMENTS:

Tri-Party Agreement Milestones:



Fifteen *Tri-Party Agreement* milestones are currently planned for completion during FY01. Through April, eleven milestones have been completed, all ahead of schedule.

A *Tri-Party Agreement* change request was approved on April 19 that revised the completion date for Milestone M-13-26, "Submit Plutonium/Organic-Rich Process Waste Group (200-PW-1) Work Plan", from June 30, 2001 to December 31, 2001 (FY02).

One *Tri-Party Agreement* milestone was completed during April. *Tri-Party Agreement* Milestone M-24-50, "Install Two Additional RCRA Wells at SST WMA TX-TY" (due April 30), was completed on April 2, one month ahead of schedule.

One milestone is currently unrecoverable. A *Tri-Party Agreement* change request is being prepared to revise Milestone M-16-03E, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (Excluding the 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling", (due September 30, 2001). Per regulator request, backfill/regrade in the 300 Area is being deferred until a Kd uranium leachability study is completed.

Total Tri-Party Agreement Milestones Due in FY01	15
Total Planned Through April	10
Total Completed Through April	11

Remaining Tri-Party Agreement Milestones to be Completed in FY01	4
Forecast Ahead of Schedule	3
Forecast On Schedule	0
*Forecast Unrecoverable	1

*Regulators concur with path forward to realign milestone date.

EM Corporate Performance Measures:

	DWP FY01	FY01 Mgmt Commitments	Current Baseline	Completed YTD
Waste Site Excavations	12	12	16	6
Technology Deployments	0	5	8	7

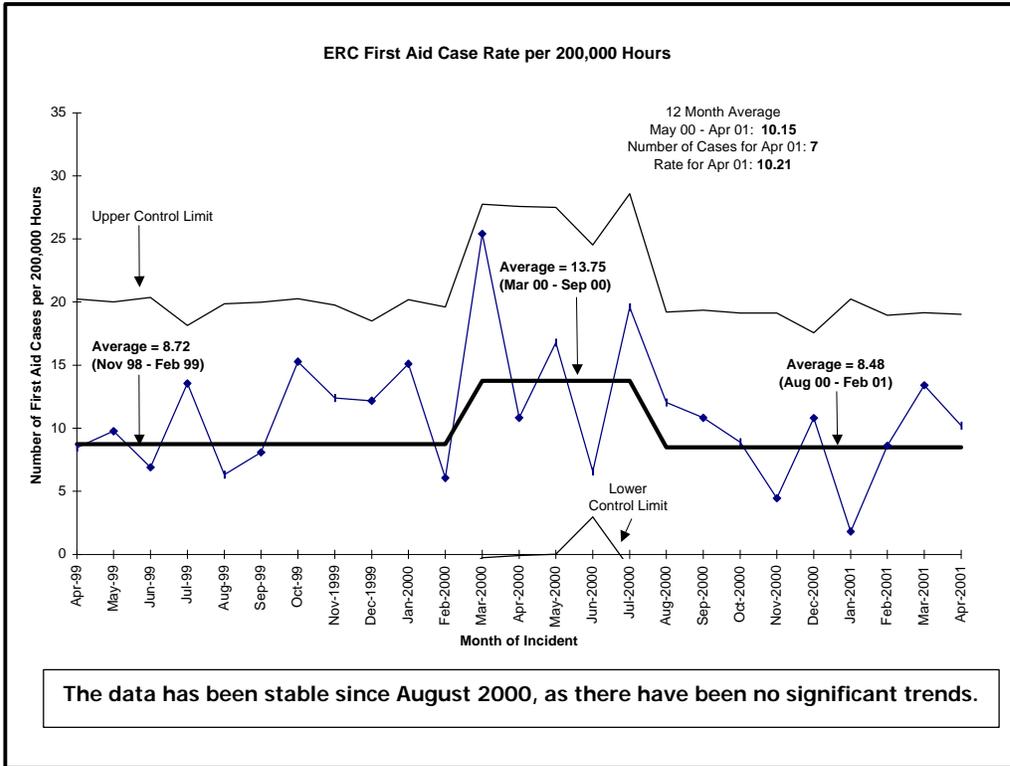


ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

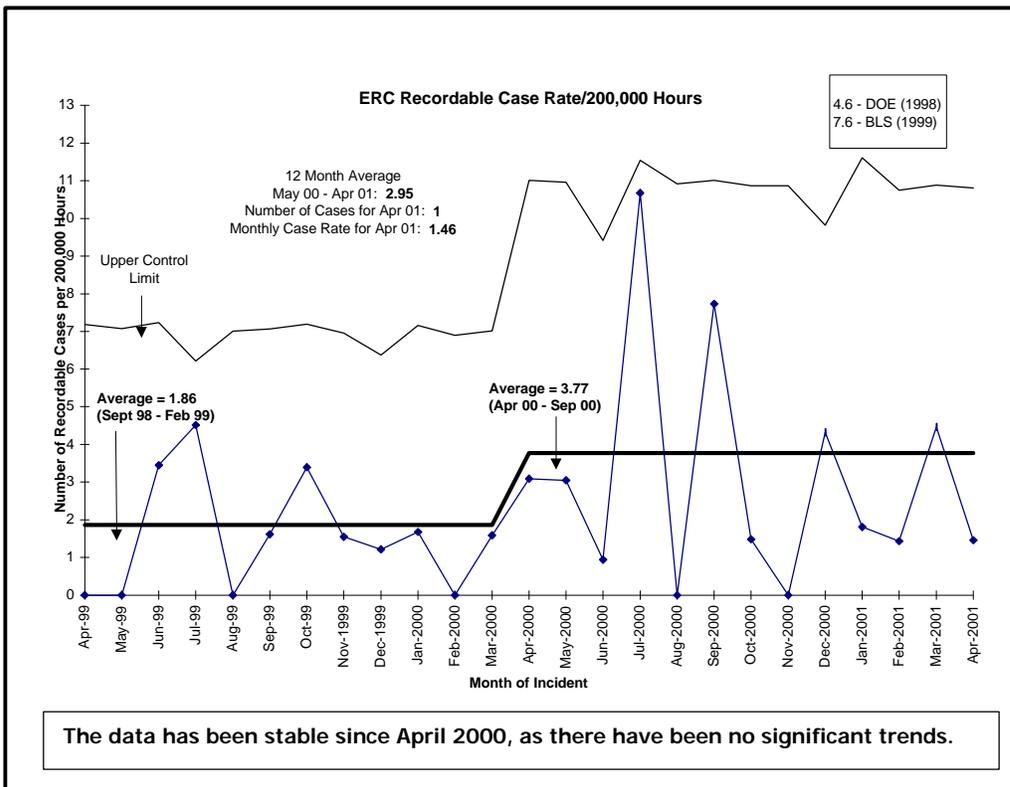
ENVIRONMENTAL RESTORATION

JUNE 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only):



Green



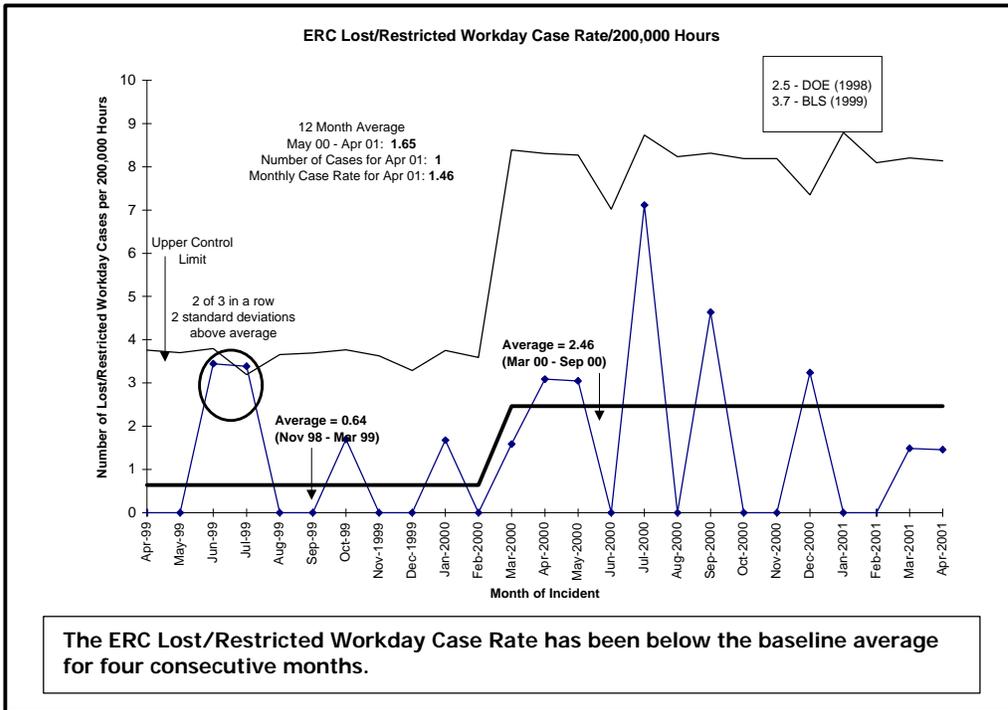
Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

JUNE 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:



Green

The following actions have or are being taken by the ERC to focus on safety improvement:

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 days (PODs).

Continue to look for trends and consult with corporate and other Bechtel National, Inc. (BNI) contacts for ways to enhance performance.

Senior management continues to meet with small groups of employees in the field to discuss safety and personal commitment.

Implementation of the new hazard evaluation process continues to be a major area of focus for the ERC. A surveillance was conducted to assess implementation of the Job Hazards Analysis (JHA) process by the Groundwater Project and an integrated team was assembled to evaluate the effectiveness of the process using the Six Sigma methodology.

BHI developed a path forward for determining the nature and extent of conditions that led to the inadvertent contact with an energized electrical line at the 384 Powerhouse fuel oil bunker removal activity. BHI is participating in the daily bunker Tanks Work Continuation Team meetings.

Initiated a Root Cause Analysis tool. Through the accident investigation process the investigation team determines if the root causes are behavior or condition based or a combination.

The Field Support General Superintendent and Project Safety Manager visit different projects on a regular basis, meet with project team members and conduct a safety walk around. Information from the walk around 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.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

	FYTD	Current Period (3/19/01-4/15/01)	Current Period Comments
First Aid	43	7	(1) contusion, (1) strain, (1) bite/sting, (2) superficial laceration, (2) pain
OSHA Recordable	11	1 (see Lost Workday Case below)	See description below for Lost Workday Case.
Restricted Workday Case	1	0 (previous Restricted became Lost Time in April)	N/A
Lost Workday Case	4	2	(1) ruptured biceps muscle requiring surgery, (1) torn biceps muscle

Green

The ERC, as of May 19, 2001, reports 244,800 hours since the last lost workday incident. The incident occurred on March 21, 2001 and became a lost time on March 28, 2001

On May 5, 2001, the ER Project's Environmental Restoration Disposal Facility (ERDF) Transportation team logged 5 million miles without an at-fault accident. This is a significant achievement that dates back to 1996 when the first load of waste was delivered from the 100-BC waste site to the ERDF. Constant focus on safety and excellent teamwork between the ERC Hanford Atomic Metal Trades Council (HAMTC) drivers/mechanics and our subcontractor, RCI Environmental, Inc., have made this accomplishment possible.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

ISMS:

DOE EM Performance Agreement: Maintain and improve the approved Integrated Safety Management System (ISMS).

Green

Status:

- History indicates that the spring and summer are the seasons that an increased number of injuries are sustained on and off the job. ERC personnel attended a standdown on April 26 to get ahead of this trend and to refocus on staying injury free every day. ERC employees were asked during the standdown, to rededicate themselves to making safety a personal value. Discussions centered on how ERC employees can commit to being injury free each and every day for the welfare of their families, coworkers and themselves.
- Implementation of the new hazard identification and analysis process continued. An integrated team was assembled to evaluate the effectiveness of the newly implemented process using the Six Sigma methodology.
- A surveillance was conducted to assess implementation of the Job Hazards Analysis process by the Groundwater Project.
- Projects/Functions continued developing ISMS performance indicators/metrics.
- Continued efforts to obtain the services of an ISMS coordinator for the ERC.
- Safety and Hygiene Programs personnel completed self-assessments of ERC Excavation and Hot Works processes during this reporting period.
- Compliance and Quality Programs conducted an independent surveillance of the ERC chemical management program. The surveillance focused on the compatibility, acquisition, labeling, use, and storage of chemicals.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

JUNE 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

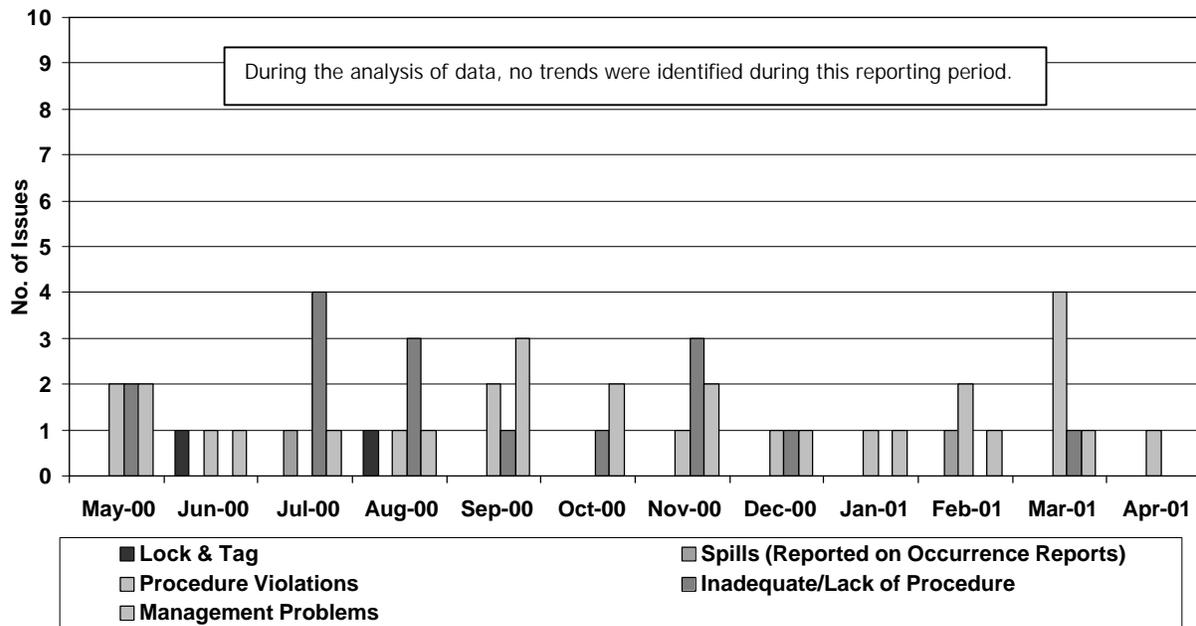
Conduct of Ops:

ERC-Corrective Action Tracking System (CATS) Trend Data 5/1/00 through 4/30/01

	May-00	Jun-00	Jul-00	Aug-00	Sep-00	Oct-00	Nov-00	Dec-00	Jan-01	Feb-01	Mar-01	Apr-01
Lock & Tag	0	1	0	1	0	0	0	0	0	0	0	0
Spills (Reported on Occurrence Reports)	0	0	1	0	0	0	0	0	0	1	0	0
Procedure Violations	2	1	0	1	2	0	1	1	1	2	**4	1
Inadequate/Lack of Procedure	2	0	4	3	1	1	3	1	0	0	*1	0
Management Problems	2	1	1	1	3	2	2	1	1	1	*1	0

* Trend data not received until April 2001.

**Trend data for three items not received until April 2001.



Each potential trend is reviewed and evaluated for impact on the project, and then given the appropriate level of attention based on a graded approach.

April Conduct of Operations Issues Continued on Next Page...

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

April Conduct of Operations Issues:

Procedure Violation:

Condition Description: An ERC internal review identified at least one instance in three areas where procedure knowledge and required reading policies had not been followed by field and subcontract personnel.

Corrective Action Plan:

- 1.) Required procedure reading lists have been reviewed and updated by ERC management/supervision.
- 2.) All field supervisors have been notified of requirement.
- 3.) Appropriate training has been established.



Previous Conduct of Operations Issues Reported in April:

Condition Description: The 105-D Decontamination and Decommissioning (D&D) crew conducted a meeting to discuss activities associated with demolishing the top of inlet tunnels to the 105-D Reactor Building. This discussion included where the excavator would be positioned and the duties of the spotter, so as to maintain a safe working distance from some nearby overhead 13.8 KV power lines. After the meeting the crew went to work. Later in the morning, the Field Engineer was observing the work and noticed that the work did not appear to be in accordance with the work package. The Field Engineer immediately went to the Craft Supervisors, who proceeded to review the package. The work package contained a hold point that required the power lines to be de-energized prior to the start of excavation. This had not been done and the work was subsequently stopped.

Corrective Action Plan:

- 1.) Provide instruction to Craft Supervisors and Field Superintendents on the acceptable performance of the daily Plan of the Day (POD) meetings. This includes ensuring the work package/procedure is reviewed with the work crew at each POD. The completion date was 3/27/01.
- 2.) Require the author of a work package/procedure provide support at the detailed POD whenever their work package/procedure will be discussed for the first time and whenever the Craft Supervisor/Field Superintendent anticipate questions about the work from the crew. The completion date was 3/27/01.
- 3.) Due to the magnitude of the remaining work, Field Support will revise the work package to require additional signoffs for electrical hold points. The completion date was 3/27/01.
- 4.) Discuss incident with the entire 100-D work crew and supervision. Emphasize management's expectation of verbatim compliance with the work package/procedure and that any changes to the work require a change to the package/procedure. The completion date was 3/26/01.



Condition Description: Decontamination and Decommissioning (D&D) workers were cleaning up an asbestos spill. The work was being performed adjacent to a concrete wall that bordered an 11-ft deep pit. A concern was raised, after the work had been completed, that it had been done without adequate fall protection.

Corrective Action Plan: Conduct meetings with project supervision and project workers to discuss fall protection procedures and requirements.



ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract only) continued:

Condition Description: On February 27, 2001, a subcontractor driller at the In Situ REDOX Manipulation (ISRM) drilling project was preparing to move an acetylene cylinder to secure it to a stationary support. The driller screwed down the protective cap and then proceeded to lift the cylinder by the cap. This was done physically, without the use of a mechanical aid. When the driller lifted the cylinder, the cap came free and struck the driller on the chin. This impact to the chin caused the skin to rupture, resulting in a ¾" long cut. This cap was later inspected and noted to have a crack along one side, which did not allow the cap to fully engage the threads. This event is being reported as a near-miss due to the improper lifting technique and a failed cap, that could have resulted in loss of control of the cylinder with subsequent damage to the cylinder.

Corrective Action Plan:

- 1.) Re-emphasize management's expectation on safe gas bottle handling techniques with the driller and other members of the subcontractor drilling team.
- 2.) All gas bottle caps were inspected for cracks, faulty threads, or other damage that may result in the cap falling off. No other bottle caps were identified with faulty caps.

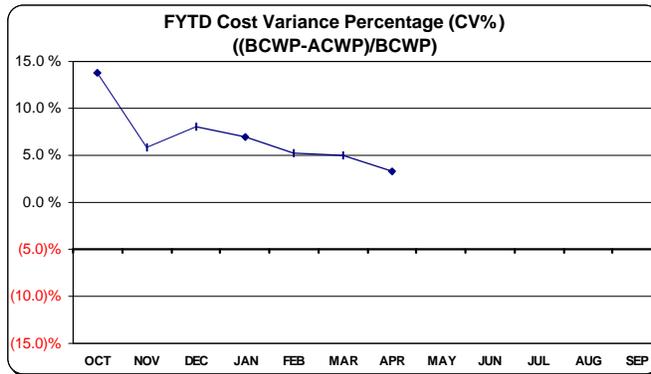


REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS:

Refer to individual Project issues in the following Section B and Section C.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION JUNE 2001

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract incl. RL/PNNL):

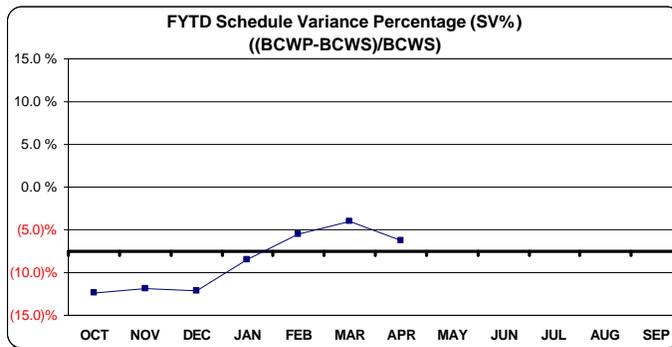


Green

Target performance is better than -5.0%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Out-Year FCST
CURRENT PERIOD													
ACWP	9,656	10,998	11,610	12,274	13,040	12,559	14,963						
BCWP	11,195	10,749	13,140	12,755	12,916	13,101	14,098						
FISCAL YEAR TO DATE													
ACWP	9,656	20,654	32,264	44,538	57,578	70,137	85,100						
BCWP	11,195	21,944	35,085	47,839	60,755	73,856	87,955						
CV	1,539	1,290	2,820	3,301	3,177	3,720	2,855						
CV%	13.7%	5.9%	8.0%	6.9%	5.2%	5.0%	3.2%						
EAC (Cumulative)	9,656	20,654	32,264	44,538	57,578	70,137	85,100	100,523	115,925	132,402	146,654	163,358	163,536
Yr End Budget Variance	195	544	2,241	2,200	2,274	3,316	3,610						

For variance explanation by PBS, see Project Status Section of each project.



Green

Target performance is better than -7.5%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,110	10,286	12,233	10,282	10,058	11,813	14,703	11,619	11,559	13,381	11,497	13,404
DWP (Accum)	11,110	21,396	33,629	43,911	53,968	65,781	80,484	92,103	103,662	117,043	128,540	141,944
CURRENT PERIOD												
BCWS	12,782	12,103	15,015	12,418	12,003	12,656	16,859	13,936	13,370	16,069	13,811	16,124
BCWP	11,195	10,749	13,140	12,755	12,916	13,101	14,098					
FISCAL YEAR TO DATE												
BCWS	12,782	24,885	39,900	52,318	64,322	76,977	93,836	107,772	121,142	137,211	151,022	167,146
BCWP	11,195	21,944	35,085	47,839	60,755	73,856	87,955					
SV	(1,587)	(2,940)	(4,815)	(4,479)	(3,566)	(3,121)	(5,882)					
SV%	-12.4%	-11.8%	-12.1%	-8.6%	-5.5%	-4.1%	-6.3%					

For variance explanation by PBS, see Project Status Section of each project.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract incl. RL/PNNL) continued:

FY01 PERFORMANCE
FYTD APRIL 2001
(\$K)

	FY01 DWP BCWS	CURRENT BCWS	FYTD			YTD SCHEDULE VARIANCE		YTD COST VARIANCE		EAC
			BCWS	BCWP	ACWP	\$	%	\$	%	
ER01 100 Area R/A	29617	30610	17253	16713	15562	-540	-3.1%	1151	6.9%	27955
ER03 300 Area R/A	4127	2369	1426	1204	1098	-222	-15.6%	106	8.8%	2268
ER04 ER Waste Disposal	17420	18604	10879	11006	10105	127	1.2%	901	8.2%	18228
RA-Subtotal	51164	51583	29558	28923	26765	-635	-2.1%	2158	7.5%	48451
ER02 200 Area R/A	443	4175	1623	928	1036	-695	-42.8%	-108	-11.6%	4323
ER08 GW Management	24942	30507	16401	14738	14572	-1663	-10.1%	166	1.1%	30809
VZ01 GW/VZ	10833	10864	6774	6217	6034	-557	-8.2%	183	2.9%	10583
GW/VZ-Subtotal	36218	45546	24798	21883	21642	-2915	-11.8%	241	1.1%	45715
ER06 - ISS	2065	12312	7026	7125	7034	99	1.4%	91	1.3%	11974
ER06 - 233-S	5130	6363	3634	3433	3801	-201	-5.5%	-368	-10.7%	6864
DD-Subtotal	7195	18675	10660	10558	10835	-102	-1.0%	-277	-2.6%	18838
ER05 S&M	13024	13685	8453	7461	7229	-992	-11.7%	232	3.1%	13309
ER07 Long-Term S&M	59	59	6	6	2	0	0.0%	4	66.7%	50
SM-Subtotal	13083	13744	8459	7467	7231	-992	-11.7%	236	3.2%	13359
ER10 ERC PM&S	28984	31217	17148	16826	16329	-322	-1.9%	497	3.0%	30792
ER10 RL PM&S	5300	6381	3215	2298	2298	-917	-28.5%	0	0.0%	6381
PM-Subtotal	34284	37598	20363	19124	18627	-1239	-6.1%	497	2.6%	37173
GRAND TOTAL	141944	167146	93838	87955	85100	-5883	-6.3%	2855	3.2%	163536

Green

Cost Variance Summary

At the end of April, the ER Project had performed \$88.0M worth of work, at a cost of \$85.1M. This results in a favorable cost variance of \$2.9M (+3.2%). The positive cost variance is attributed to less labor required due to sharing resources between 100 D and 100 B/C Area remediation efforts; 100 D Area backfill completed early; less labor required to complete remediation cleanup verification packages (CVPs) due to use of a streamlined format and consolidation of waste sites; Environmental Restoration Disposal Facility (ERDF) transportation labor performing scope without planned overtime; and program management support to field operations performed with fewer resources than planned.

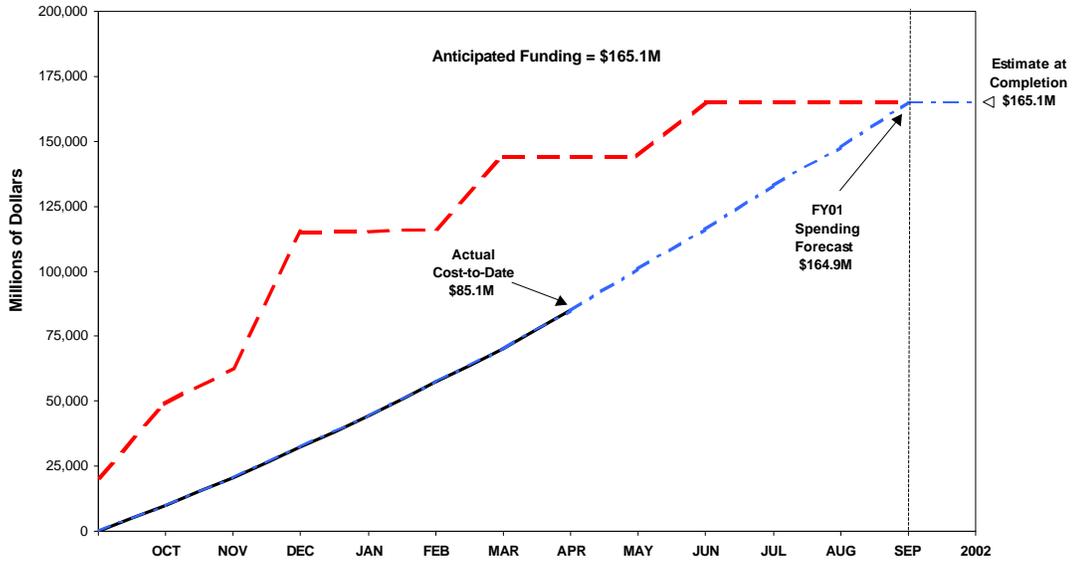
Schedule Variance Summary

Through April, the ER Project is \$5.9M (-6.3%) behind schedule. The negative schedule variance is attributed to delays in the 300 Area contract closeout and burial ground procurement package; 100 N Area crib trough contamination higher than expected; delays in 200-TW-1 and 200-TW-2 pre-job planning and drilling procurement activities; contaminated soil encountered during Resource Conservation and Recovery Act (RCRA) well drilling; waste shipments from RCRA wells placed on hold pending disposition resolution; well decommissioning delays due to extended well document search/selection; delays in groundwater monitoring sample collection and analysis activities; testing for System Assessment Capability (SAC) history matching taking longer than planned; hexone tank laboratory analysis taking longer than planned; asbestos abatement activities initiated later than planned; and late billings for site-wide assessments.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION JUNE 2001

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract) continued:

FY2001 Funds Management



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	2002	EAC TOTAL
ACTUAL/ANTICIPATED FUNDING	20,500	48,800	62,900	115,100	115,466	116,236	144,126	144,126	144,126	165,087	165,087	165,087	Est. Cntry. ETC	
APPROVED SCOPE														
1 Actual Cost	9,656	20,654	32,264	44,538	57,578	70,137	85,100							
2 Current Monthly EACs	9,656	10,998	11,610	12,274	13,040	12,559	14,963	15,423	15,402	16,477	14,252	16,704		
3 Cumulative EAC	9,656	20,654	32,264	44,538	57,578	70,137	85,100	100,523	115,925	132,402	146,654	163,358	177	163,536
MAY FY2001 APPROVED BCPs (Through 05/22/01)														
4 ER01 BCP-21152 Changes to Scope for 600-23 Waste Site								157					0	157
5 ER01 BCP-21164 Accelerate/Defer F Area Waste								(86)					0	(86)
6 Subtotal Approved Scope Changes								71	0	0	0	0	0	71
FY2001 PENDING BCPs														
7 ALL Provisional Billing Rate Adjustment											400		0	400
8 ER01 BCP-21169 Additional Contaminated Material at 116-F-2 Waste Site										(13)			0	(13)
9 ER08 BCP-21150 (PNNL) - CY01 Well Installation										79	79	80	0	238
10 ER08 BCP-21154 Modutanks Closure Re-baseline & Deferral										(325)			0	(325)
11 ER08 BCP-21155 Waste Management Scope Increase								88	60	60	60	60	0	328
12 ER08 BCP-21166 Uranium Investigation - Gas Sampling											27	12	0	39
13 ER08 BCP-21172 ISRM - Phase II Installation/Drilling Methodology Contract Change								128	90	10	10	10	0	248
14 ER08 Well 699-43-2 Potential ONO												35	0	35
15 ER08 KR-4 Pump and Treat System - Upgrades									118	119	119	119	0	475
17 ER05 Hexone Stabilization										100			0	100
18 ER06 Deletion of H Rx FSB Demo; Additional HRx SSE Haz. Waste Rem.								600					0	600
19 ER06 Technology Deployment Funding to Support BROKK Procurement & Implementation								(500)					0	(500)
20 ALL Pending Scope FY01 Additions/Reductions/Efficiencies								(29)	(29)	(29)	(29)	(29)	0	(145)
21 Subtotal Approved BCPs + Pending BCPs								358	(86)	326	666	287	0	1,551
Summary Totals														
22 Current Monthly EAC + May FY2001 Approved BCPs & Pending BCPs	9,656	10,998	11,610	12,274	13,040	12,559	14,963	15,781	15,316	16,803	14,918	16,991		-
23 Cumulative EAC + May FY2001 Approved BCPs & Pending BCPs	9,656	20,654	32,264	44,538	57,578	70,137	85,100	100,881	116,197	133,000	147,918	164,909	177	165,087

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

PERFORMANCE OBJECTIVES:

Refer to individual Project information in the following Section B and Section C.

KEY INTEGRATION ACTIVITIES:

None identified at this time.

UPCOMING PLANNED KEY EVENTS:

Tri-Party Agreement Milestone M-16-41A, Complete Remedial Action Excavation for J.A. Jones and 600-23 Waste Sites, due July 31.

Green

Environmental Management Performance Report

June 2001

Section B - River Corridor Information

- Remedial Action and Waste Disposal Project
- Decommissioning Projects (Interim Safe Storage and 233-S)
- Program Management and Support



Truck Loading and Queue Operations at the 600-23 Waste Site



L-12 Piping Removal at 233-S



RAWD Personnel Packaging a Container Load of Contaminated Soil from 116-F-14



RCT Conducting Survey on Manhole Pipe During Excavation at the 1607-F6 Waste Site

***Focused on Progress...
Focused on Outcomes!***

Financial/Performance Measures data as of month-end April.
All other data as of May 24 (unless otherwise noted).



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0105092a.1

**Remedial Action and
Waste Disposal Project
(RAWD)**

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

SECTION B – RESTORING THE RIVER CORRIDOR

**Financial / Performance Measures data as of month-end April.
All other data as of May 24, 2001 (unless otherwise noted).**

Remedial Action & Waste Disposal Project (RAWD):

ACCOMPLISHMENTS: RAWD

Environmental Restoration Disposal Facility (ERDF) Transportation and Operations: During April, shipments totaling 59,154 metric tons (65,207 tons) of contaminated waste were transported to ERDF. 301,040 metric tons (331,842 tons) of waste have been received in fiscal year 2001 (FY01), which is about 5% ahead of the plan. To date, a total of 2,607,802 metric tons (2,874,625 tons) of material have been remediated and placed in ERDF.

Approximately 655,789 liters (173,260 gallons) of ERDF leachate were transferred to the Effluent Treatment Facility.

100 B/C Area Remediation: Excavation activities were completed at the contaminated soil area 'G' in the 100 B/C remediation area. Overburden removal also progressed on remediation of the concrete and steel pipelines in the 100 B/C Area as well.

100 D Area Remediation: Demobilization activities continued at 100 D Area. Completion of 100 D Area excavation and backfill was completed in late February.

100 F Area Remediation: In the 100 F Area, excavation and removal activities for the remaining 1607-F6 pipeline were completed during April. Overburden excavation and removal were also completed for the 100-F-19 south and north Lewis Canal pipeline laterals, with the exception of several small sections of the south lateral.

The Laser-Assisted Ranging and Data System (LARADS) survey was completed for the excavated areas of 116-F-14 Retention Basin plumes. Additional plumes were identified in the retention basin. A third baseline change proposal (BCP) was submitted for removal of an additional 32,658 metric tons (36,000 tons) of plume material. Additional plumes were also identified at the 116-F-2 Waste Disposal Trench. Estimated tonnage for plumes identified at the 116-F-2 waste site is 41,503 metric tons (45,750 tons).

Cultural materials (small bones, shells, and charred rocks/wood) were identified near the UPR-100-F-2 basin leak site. Excavation work at the site will be postponed until the Environmental Restoration Contractor's (ERC) Cultural Resource experts complete consultations with the Native American tribes on how to record the findings and mitigate the site.

100 H Area Remediation: Backfill operations were initiated at the 100-HR-1 Operable Unit during April. Work continued on completing the two remaining Cleanup Verification Packages (CVPs) for 100-H-24 and 116-H-7 waste sites.

100 N Area Remediation: In the 100 N Area, the first two concrete cuts on the 116-N-3 Crib Distribution Trough were completed during April. Trough removal is planned to be completed in June. Removal of the overburden at the 116-N-3 pipeline began in preparation for pipeline and bypass demolition. The overburden is being stockpiled for use as backfill upon removal of the pipelines and bypass. Approval was received in April to proceed with remediation of an additional 40,823 metric tons (45,000 tons) of plumes and additional shielding soil at the 116-N-3 Trench and Crib. To offset the increased scope, excavation and loadout from 116-N-1 Trench were deferred to FY02. The plumes will be remediated concurrent with 116-N-3 pipelines and bypass work.

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

ACCOMPLISHMENTS continued: RAWD	
<p>100/300 Area Design/Assessment: Internal review was completed for the 100 Area Burial Ground Intermediate Design for 11 burial grounds located in the 100 B/C Area. Intermediate design is planned for completion by the end of May.</p> <p>The 300-FF-2 Operable Unit Interim Record of Decision (ROD) was approved on April 5. The ROD is the decision document that identifies the preferred remedial action alternative for waste removal, treatment, and disposal methods. Approval of this ROD completes all required regulatory documents necessary to proceed with cleanup of remaining contaminated sites in the 300 Area.</p> <p>Internal review was initiated in April for the 300-FF-2 final design for remediation of the 618-5 Burial Ground. The final design package is scheduled for completion by the end of May.</p> <p>300 Area Remediation: A BCP was approved to treat and dispose of the 78 uranium oxide powder drums currently staged in the 618-4 Burial Ground. This workscope will be performed in lieu of initiating treatment of the uranium metal/oil drums this fiscal year.</p> <p>300/600 Area Remediation: Confirmation sampling was initiated to verify contamination removal at the J.A. Jones waste site. Sample results are due by the end of May.</p> <p>Loading and hauling operations were completed May 15 at the 600-23 waste site. Planning and preparations are underway for packing and shipping the black tar material encountered at the 600-23 waste site. The drums will be sent to Fluor Hanford (FH) for offsite treatment.</p>	
SAFETY/ISMS/CONDUCT OF OPERATIONS: RAWD	
See Executive Summary.	
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: RAWD	
None identified at this time.	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: RAWD	
None identified at this time.	
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): RAWD	
<ul style="list-style-type: none"> • DOE Secretarial: None identified at this time. 	
<ul style="list-style-type: none"> • DOE EM Performance Agreement: None identified at this time. 	

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: RAWD

• **Tri-Party Agreement Milestones:**

Milestone	Description	Due Date	(F)/(A) Date	
M-16-26D	Begin Excavation Activities at 100 B/C Process Effluent Pipelines.	2/28/01	2/26/01 (A)	
M-16-07B	Complete Remediation and Backfill of 22 Liquid Waste Sites and Process Effluent Pipelines in the 100-DR-1 and 100-DR-2 Operable Units as defined in Remedial Design Report/Remedial Action Work Plan for the 100 Area	7/31/01	2/28/01 (A)	
M-16-41A	Complete Remedial Action Excavation for JA Jones 1 and 600-23 Waste Sites	7/31/01	7/16/01 (F)	
M-16-26C	Complete Remediation and Backfill of 10 Liquid Waste Sites and Process Effluent Pipelines in the 100-HR-1 Operable Unit as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area	9/30/01	7/17/01 (F)	
M-16-03E	Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground), to include Excavation, Verification, and Backfilling	9/30/01	9/30/02 (F)*	
M-16-26G	Remove filter boxes and complete verification sampling for 100-B-12 waste site	9/30/01	9/11/01 (F)	
M-16-00F	Establish Date for Completion of all 100 Area Remedial Actions	12/31/01	12/31/01 (F)**	
M-16-41B	Submit Cleanup Verification Package (CVP) for JA Jones 1 and 600-23 Waste Sites for EPA Approval	3/31/02	3/31/02 (F)	
M-16-26B	Complete Remediation and Backfill of 51 Liquid Waste Sites in the 100-BC-1/-2, 100-DR-1/-2, and 100-HR-1 OUs and Process Effluent Pipelines in the 100-DR-1/-2, and 100-HR-1 OUs. Complete revegetation of 36 Liquid Waste Sites in the 100-BC-1, 100-DR-1/-2, and 100-HR-1 OUs as defined in the RDR/RAWP for the 100 Area.	3/31/02	3/31/02 (F)	

*Per regulator request, Kd (partitioning coefficient) study is being performed to determine uranium leachability in the 300 Area. 300-FF-1 backfill will be deferred until leachability concerns are resolved. A draft *Tri-Party Agreement* change request is being prepared. Regulators concur with path forward.

**Awaiting DOE direction prior to initiating discussions with regulators.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: RAWD

- **DNFSB Commitment:**
None identified at this time.

PERFORMANCE OBJECTIVES: RAWD

RAWD	Task	Status
	• 490,000 Tons by 9/30/01	On schedule.
	• Backfill 16 Sites by 9/30/01	On schedule.
	• 50,000 Additional Tons by 9/30/01 (Stretch)	100% of Stretch undertaken as of 2/28/01.
	CV <5.0%; SV <7.5% for grouped PBS ER01, ER03, ER04	(*Detail Section 6C)

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

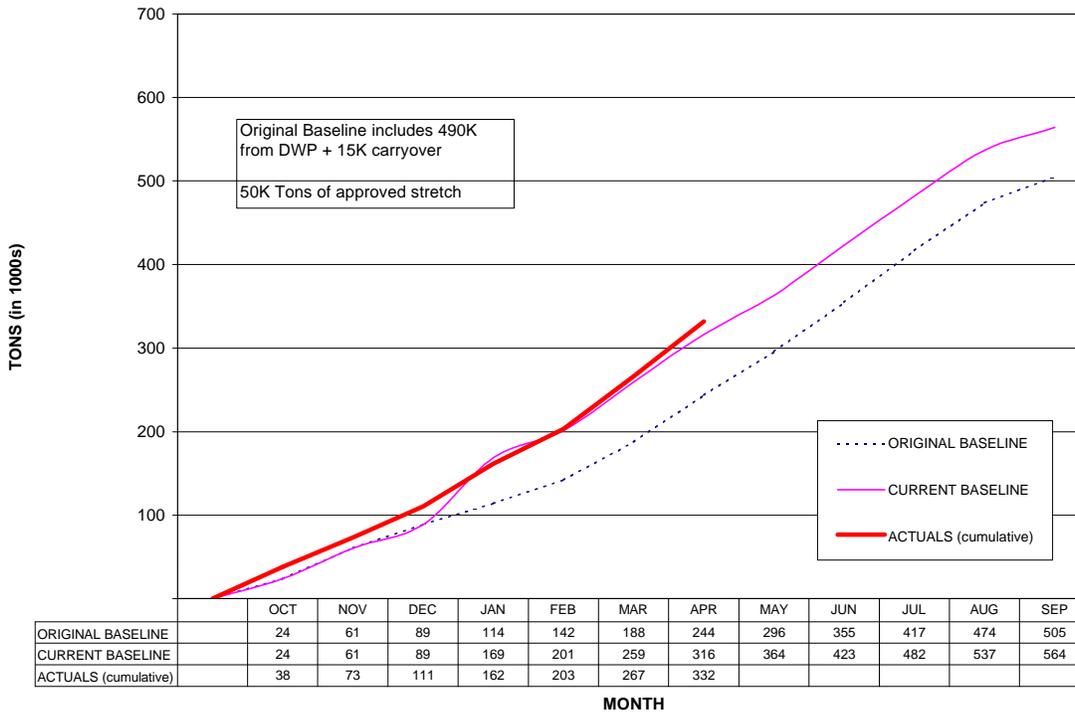
JUNE 2001

PERFORMANCE MEASURES/METRICS: RAWD – (River and Plateau)

	DWP FY01	FY01 Mgmt Commitments	Current Baseline (Incl. Baseline Changes)	Completed YTD
Waste Sites Excavated	12	12	16	6

Green

**Remedial Action and Waste Disposal Project
Cumulative Tons to ERDF**



STRETCH AND SUPERSTRETCH GOALS: RAWD

FY01 RAWD "Stretch" Goals	Approved Tons (K)
Remediate Additional 50K Tons of Contaminated Material by 9/30/01	
(1) Additional Contaminated Material at 100-F Pipelines (BCP 21013 approved 11/00)	8.0K
(2) Additional Contaminated Material at 100-H Sites (BCP 21014 approved 11/00)	7.5K
(3) (Additional Contaminated Material at 100-F Sites of 36.4 approved in February) (BCP 21043 approved 2/01)	34.5K
S/Total Remedial Action Stretch Goals:	50.0K

Green

(*through April 30)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

STRETCH AND SUPERSTRETCH GOALS continued: RAWD

FY01 RAWD "Superstretch" Goals	Approved BCPs (K)
*Complete Remediation of 60 Square Miles of Hanford Site: (1) Complete Remediation of J.A. Jones Pit #1 and 600-23	\$1640.9K
S/Total Remedial Action Superstretch Goals:	\$1640.9K

*Carried over from FY00.

PROJECT STATUS (COST/SCHEDULE): RAWD

- **Schedule:**

Remedial Action & Waste Disposal Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER01 100 Area Remedial Actions	17,253	16,713	(540)
ER03 300 Area Remedial Actions	1,426	1,204	(222)
ER04 ER Waste Disposal	10,879	11,006	127
TOTAL Remedial Actions	29,558	28,923	(635)

Green

PBS-ER01 – 100 Area Remedial Action

Schedule Variance = **(\$540K); (3.1%)** [Last Month: \$410K; 3.0%]

Cause: Pipeline removal at 100-BC-1 site was delayed due to resequencing of some of the early work.

Resolution: Pipeline removal anticipated to begin in early May. Project will continue to monitor; full schedule recovery is anticipated.

Cause: Slower progress than planned on the 116-N-3 Crib demolition at the 100-NR-1 site due to higher radiation levels, demolition conditions, and container issues.

Resolution: Preparatory work is in process. Remaining work has been resequenced to optimize opportunities for concurrent work performance; schedule recovery will continue over the course of the year.

PBS-ER03 – 300 Area Remedial Action

Schedule Variance = **(\$222K); (15.6%)** [Last Month: (\$245K); (20.1%)]

Cause: Delays in 300-FF-1 remediation contract closeout and burial ground procurement package.

Resolution: Contractor is reviewing options and subcontract waste stream disposal is being studied.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

PROJECT STATUS (COST/SCHEDULE) continued: RAWD

PBS-ER04 – Environmental Restoration Waste Disposal
 Schedule Variance = **\$127K; 1.2%** [Last Month: \$239K; 2.6%]

Cause: Slightly ahead of schedule; more ton miles of waste were transported than planned due to additional plume remediation at soil sites.

Resolution: None required.

• **Cost:**

Remedial Action & Waste Disposal Project	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER01 100 Area Remedial Actions	27,955	16,713	15,562	1,151
ER03 300 Area Remedial Actions	2,268	1,204	1,098	106
ER04 ER Waste Disposal	18,228	11,006	10,105	901
TOTAL Remedial Actions	48,451	28,923	26,765	2,158

Green

PBS-ER01 – 100 Area Remedial Action
 Cost Variance = **\$1151K; 6.9%** [Last Month: \$1267K; 8.9%]

Cause: Less labor was required due to sharing DR site non-manual resources with the 100-BC workscope needs, shifting of personnel to other waste sites, less design and supervision required, and backfill completed six weeks early.

Resolution: Reflected in the EAC. Underrun is being used to perform additional remediation work.

Cause: CVPs continue to require less labor than anticipated to prepare due to the use of a "streamlined" format and the consolidation of waste sites.

Resolution: Reflected in the EAC. Underrun is being used to perform additional remediation work.

Cause: Cost overrun at 100-NR crib remediation as a result of high contamination levels and radiation control issues.

Resolution: Overrun trended and reflected in the EAC.

PBS-ER03 – 300 Area Remedial Action
 Cost Variance = **\$106K; 8.8%** [Last Month: \$73K; 7.5%]

Cause: Coordination of 300-FF-2 and 100 Area Burial Grounds design efforts has resulted in savings; Pacific Northwest National Laboratory (PNNL) staff and subject experts were utilized on the 618-10/11 Engineering Study Historical Research resulting in additional savings. Underrun offset by cost overrun in rerouting the South Process Pond water line and sample costs at Landfill 1B.

Resolution: Reflected in the EAC. Underrun is being used to perform additional remediation work.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

PROJECT STATUS (COST/SCHEDULE) continued: RAWD	
<p>PBS-ER04 – Environmental Restoration Waste Disposal Cost Variance = \$901K; 8.2% [Last Month: \$1072K; 11.5%]</p> <p>Cause: Through February, little driver overtime was required to stay on schedule. Driver overtime increased in March, and will continue at an increased rate through the remainder of the year.</p> <p>Resolution: Cost savings will be offset by anticipated higher driver needs for the next five months. Some expected savings are reflected in the EAC.</p>	
REGULATORY ISSUES: RAWD	
<p>Tri-Party Agreement Milestone M-16-03E: M-16-03E, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit (excluding the 618-4 Burial Ground), to Include Excavation, Verification, and Backfilling," due September 30, 2001, will be missed due to the U.S. Environmental Protection Agency (EPA) requirement for performing a Kd study on uranium leachability. The regrades will not be completed until study results confirm that no further excavations will be required.</p> <p>Status: The EPA requested that a Kd study be performed to address uranium mobility in the 300 Area. This study will consist of obtaining uranium-contaminated samples, and performing leach rates with follow-on absorption tests, resulting in a Kd value. A Data Quality Objective (DQO) was completed, and a BCP was prepared to secure funding for the study. The study was initiated in March and will be completed in FY02. Preliminary results should be available at the end of FY01. A draft <i>Tri-Party Agreement</i> request is being prepared. The regulators concur with the proposed path forward.</p> <p>618-4 Burial Ground: It is unlikely that treatment of the 618-4 Burial Ground uranium metal/oil drummed waste can be performed this fiscal year. The treatment technology has been identified, however, the treatment facility startup process is proceeding slower than planned. Currently, it appears that the treatment facility may be able to receive the uranium metal/oil drummed waste for treatment early next fiscal year. EPA has indicated a need to show continuous progress at 300-FF-1 in FY01.</p> <p>Status: In lieu of the above treatment this fiscal year, a BCP was approved to treat and dispose of the 78 uranium oxide powder drums currently staged in the 618-4 Burial Ground to ERDF. Issue closed.</p>	<div style="border: 3px double black; padding: 5px; margin-bottom: 20px;">Green</div> <div style="border: 3px double black; padding: 5px;">Green</div>
EXTERNAL ISSUES (i.e. HAB, Congress, etc.): RAWD	
None identified at this time.	
DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): RAWD	
None identified at this time.	
INTEGRATION ACTIVITIES: RAWD	
None identified at this time.	

Decommissioning Projects (D&D)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

SECTION B – RESTORING THE RIVER CORRIDOR

**Financial / Performance Measures data as of month-end April.
All other data as of May 24, 2001 (unless otherwise noted).**

Decommissioning Projects (D&D)

ACCOMPLISHMENTS: D&D

F and DR Reactor Interim Safe Storage (ISS): Technical review began on April 25 of the F and DR Reactors safe storage enclosure (SSE) bid proposals. The SSE contract was awarded in May. The Safety Analysis Report Plan (SARP), Rev. 0 was approved and issued on April 26. As of the end of April, F Reactor ISS is 71% complete, and DR Reactor ISS is 84% complete.

D Reactor ISS: At D Reactor, backfill was completed for the water tunnels. Asbestos material was removed and disposed from the fuel storage basin (FSB). Hazardous material was also removed from the FSB and transfer bay. D Reactor ISS is approximately 28% complete.

H Reactor ISS: At H Reactor, asbestos abatement and lead removal were completed in the control room, along with clearance air sampling. All exterior asbestos abatement was completed in the operations gallery and fan room areas. Liquid pipechecks were also completed in the operations gallery. All demolition preparation activities were completed in the FSB and transfer bay. H Reactor ISS is approximately 10% complete.

233-S Plutonium Concentration Facility Decommissioning Project: Decommissioning activities at the 233-S facility continued to focus on removal of the 15 process vessels. Through April, 3 of the 7 vessels planned for FY01 have been removed as scheduled. April activities that were accomplished in the highly contaminated 233-S facility included the following:

- Removal of the L-1 vessel; commencement of L-4 vessel removal activities.
- Removal of remaining L-18 vessel cubicle metal panels.
- Removal of 36 meters (119 feet) of process piping.
- Completion of nondestructive assay for 100 waste packages and five bottles of nitric acid.
- Packaging of four 55-gallon drums of radioactive waste and one standard waste box filled with transuranic (TRU) waste.
- Shipment of seven boxes of low-level radioactive waste to ERDF.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: D&D

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: D&D

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: D&D

None identified at this time.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): D&D

- **DOE Secretarial:**
None identified at this time.

- **DOE EM Performance Agreement:**
None identified at this time.

- **Tri-Party Agreement Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
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	*TBD

Green

*Regulators have agreed to renegotiate this milestone since DR Reactor ISS is scheduled for completion in FY 2002. Initial discussions are underway.

- **DNFSB Commitment:**
None identified at this time.

PERFORMANCE OBJECTIVES: D&D

PI	Task	Status
233-S	<ul style="list-style-type: none"> • 8 vessels by 6/30/02 • 7 additional vessels by 6/30/02 (Stretch) 	Critical path activity on schedule. BCP-21023 approved. Stretch activities in progress and on schedule. (*Detail Section 6C)
	CV <5.0%; SV <7.5% for PBS ER-06	
ISS	<ul style="list-style-type: none"> • D Reactor Major Tasks by 9/30/01 • DR Reactor Major Tasks by 9/30/01 • F Reactor Major Tasks by 9/30/01 • H Reactor Major Tasks by 9/30/01 	Critical path activities on schedule; received authorization funding in December.
	CV <5.0%; SV <7.5% for PBS ER-06	

Green

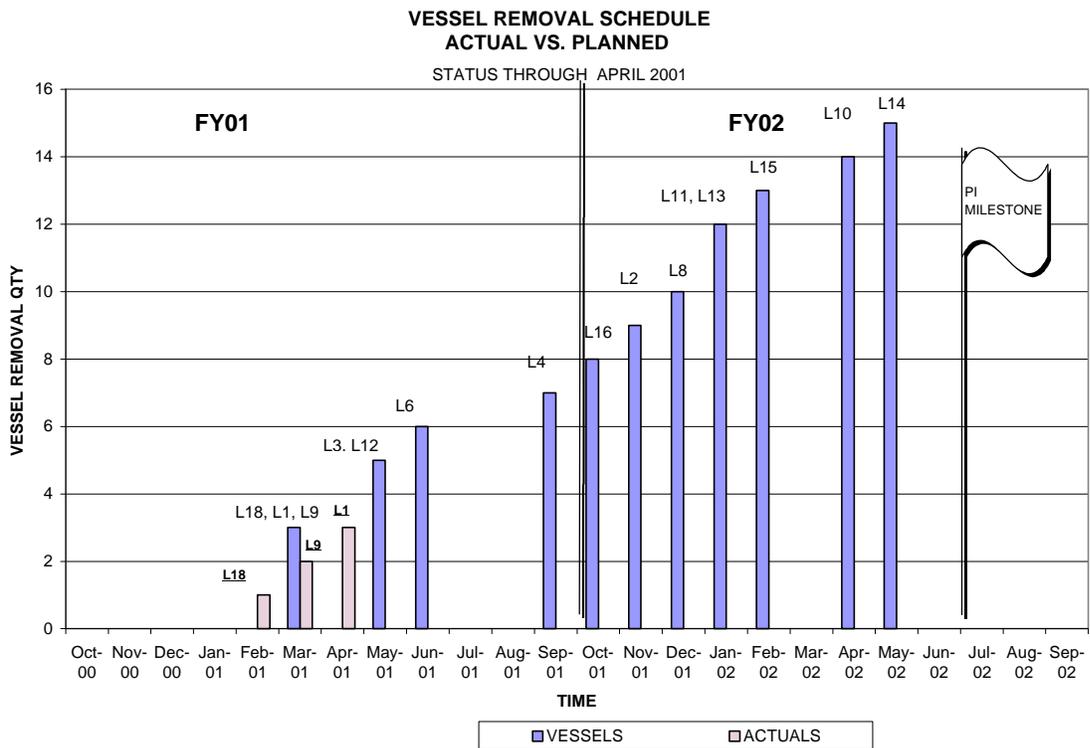
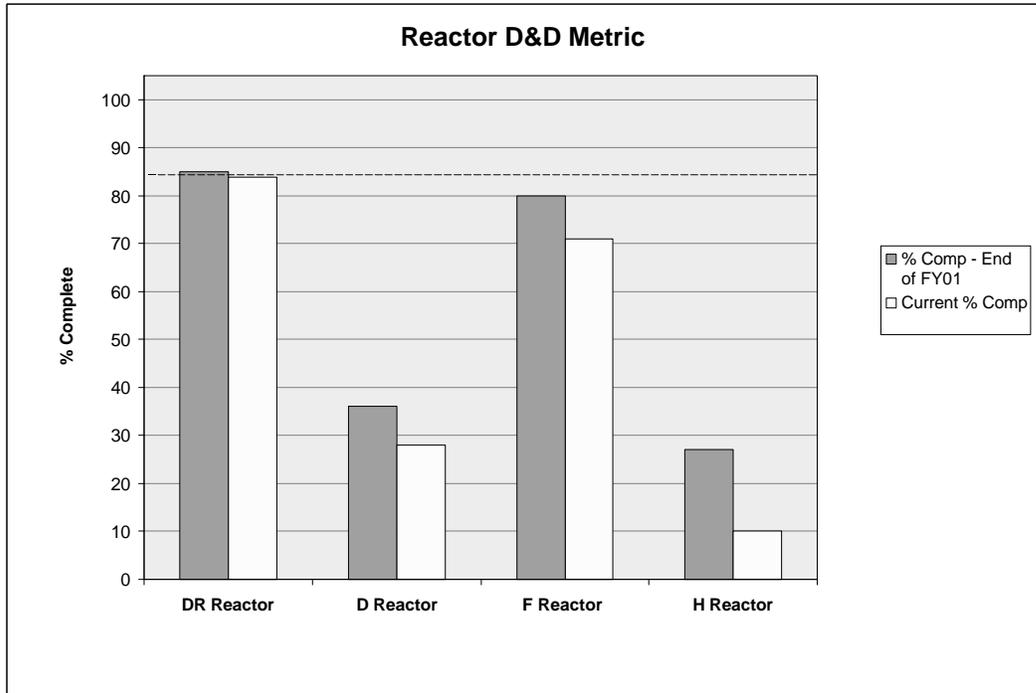
ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

JUNE 2001

PERFORMANCE MEASURES/METRICS: D&D

Green



**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

STRETCH AND SUPERSTRETCH GOALS: D&D

FY01 D&D "Stretch" Goals	Approved BCPs (K)
Remove 7 Additional Vessels by 6/30/02 for a total of 15 Vessels (Stretch Only) (BCP 21023 approved 11/00)	\$1,072.0K
S/Total D&D Stretch Goals:	\$1,072.0K

Green

FY01 D&D "Superstretch" Goals	Approved BCPs (K)
*Continue F Reactor Interim Safe Storage	\$1372.4K
S/Total D&D Superstretch Goals:	\$1372.4K

Green

*Carried over from FY00.

PROJECT STATUS (COST/SCHEDULE): D&D

- **Schedule:**

Decommissioning Projects	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER06 ISS and Other D&D Projects	7,026	7,125	99
ER06 233-S	3,634	3,433	(201)
TOTAL D&D	10,660	10,558	(102)

Green

PBS-ER06 – Decontamination and Decommissioning

Schedule Variance = **(\$102K); (1.0%)** [Last Month: (\$112K); (1.2%)]

Cause: D Reactor ISS is ahead of schedule due to structural demolition and hazardous material removal taking less time than planned.

Resolution: None.

Cause: Process Hood vessel removal at the 233-S facility is behind schedule due to difficulty in removing neutron monitors, stringent procedures slowed TRU waste shipments, and non-destructive assay (NDA) labor support was not available.

Resolution: Selective overtime will continue to be used to recover schedule; continue to look for better ways to accomplish work safely.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

PROJECT STATUS (COST/SCHEDULE) continued: D&D

• **Cost:**

Decommissioning Projects	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER06 ISS and Other D&D Projects	11,974	7,125	7,034	91
ER06 233-S	6,864	3,433	3,801	(368)
TOTAL D&D	18,838	10,558	10,835	(277)

Green

PBS-ER06 – Decontamination and Decommissioning

Cost Variance = **(\$277K); (2.6%)** [Last Month: \$437K; 4.9%]

Cause: Overrun at the F Reactor Fuel Storage Basin (FSB) due to resolving work package issues while work was on hold; procedural changes resulting in loss in efficiency in removing material from the FSB; and work procedure revisions resulting from the inability of the Gamma Cam and In Situ Object Counting System (ISOCS) systems to positively identify fuel elements 30-36" below the surface.

Resolution: A BCP to address the additional workscope associated with the Gamma Cam and ISOCS is being prepared.

Cause: Overrun at the 233-S Facility due to purchase of standard waste box (SWB) and additional tools needed for process hood pipe and vessel removal.

Resolution: Overrun has been reflected in the EAC.

REGULATORY ISSUES: D&D

D and H Reactor Impacts of Tri-Party Agreement Milestones: The acceleration of the reactor ISS projects is no longer consistent with the current M-93 milestones, especially the competitive procurement and renegotiating milestone (M-93-12) for DR Reactor.

Green

Status: Initial discussions with the regulators have begun. This will need to be discussed as part of RL's 100 Area acceleration vision. Regulators concur with path forward.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): D&D

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): D&D

233-S Process Hood: Non-destructive assay (NDA) support, provided by Fluor Hanford-(FH) Plutonium Finishing Plant (PFP) continues to be a concern. The level of NDA services requested in the FY01 Letter of Instruction (LOI) is not being met.

Green

Status: A meeting was held with the PFP manager to discuss NDA support. NDA requirements at PFP have increased in addition to the increased need at 233-S. He stated that the level of NDA services in the FY01 LOI could only be met on a not-to-interfere-with-PFP basis. Additional NDA services are being arranged under PFP's umbrella contract with a vendor (Canberra). BHI has developed a transition plan to shift on-site NDA support to Canberra and resolve the delivery of backlog data that is necessary to support waste shipment activities. The transition plan was reviewed with the PFP Manager.

INTEGRATION ACTIVITIES: D&D

None identified at this time.

Program Management and Support (PM&S)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

SECTION B – RESTORING THE RIVER CORRIDOR

**Financial / Performance Measures data as of month-end April.
All other data as of May 24, 2001 (unless otherwise noted).**

Program Management & Support (PM&S)

ACCOMPLISHMENTS: PM&S

COMPLIANCE, QUALITY, SAFETY, AND HEALTH:

Safety and Health: The final report relative to the failure of the breathing-air regulator at the 233-S facility was received. The report provided a complete evaluation by the manufacturer of every regulator component. The manufacturer's report also supported the investigation conducted by the ERC. Corrective actions developed by the ERC Industrial Hygiene organization were recommended to other DOE sites and the National Institute of Occupational Safety and Health (NIOSH).

PROGRAM AND PROJECT SUPPORT:

Procurement and Property Management: The ERC continues to meet or exceed socio-economic contracting goals for FY01. The FY01 socio-economic contractual goals versus actual percentages (through April) are as follows:

Total	Small Business	Goal: 50.0%	Actual: 49.2%
	Small Disadvantaged Business	Goal: 6.5%	Actual: 20.5%
	Women Owned	Goal: 3.5%	Actual: 5.0%

ENGINEERING AND TECHNOLOGY:

Technology Applications: Technology deployment accomplishments and status were presented at the Deactivation and Decommissioning Focus Area Mid-Year Review and Decommissioning Symposium held in Miami. Through May, seven technologies have been deployed at the Hanford Site; four have been in support of decommissioning projects.

Environmental Technologies: The second quarter waste minimization/pollution prevention information was compiled and entered into the Hanford Site waste minimization accomplishment database. Cost avoidance of \$12.6 million was identified for the second quarter of FY01.

PLANNING AND CONTROLS:

Updates were completed for the HQ Integrated Planning and Budgeting System (IPABS) reporting system. Updates included stream disposition data and FY02-03 budget data. Unit of analysis data was also provided for the Integrated Priority List (IPL) in support of the upcoming FY03 budget development activities. Support was also provided for various FY02 funding exercises as requested by RL and HQ.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: PM&S

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVMENT: PM&S

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: PM&S

Six Sigma:



Progress continues on Six Sigma program implementation. There are four phases (Measure, Analyze, Improve, Control) in a process improvement project (PIP).

The Waste Management PIP (PIP#1) was completed on 04/27/01. The cost savings (Hard dollar/Cost Avoidance) for PIP #1 through 04/27/01 is \$800K.

The ERC Procedure Development PIP (PIP#2) is about to complete the "Measure Phase" and is about 60% complete.

The Radiation Control Instrumentation PIP (PIP#3) began the "Measure Phase" on 05/07/01 and is about 10% complete.

The 21 ERC and 2 DOE-RL Six Sigma Yellow Belts are now certified and deployed in the workplace. These individuals (ERC) are actively applying the Six Sigma methodology and tools into their functional/project areas and reporting progress on a monthly basis.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): PM&S

• **DOE Secretarial:**

None identified at this time.

• **DOE EM Performance Agreement:**

None identified at this time.

• **Tri-Party Agreement Milestones:**

None identified at this time.

• **DNFSB Commitment:**

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
 JUNE 2001

PERFORMANCE OBJECTIVES: PM&S

Comprehensive Measures

Comprehensive Measure	Task	Status
Safety	<ul style="list-style-type: none"> The Contractor shall protect worker safety and health, public safety and health, and the environment. 	Reference the Safety Section of the Cross-Cutting package.
Operational Excellence	<ul style="list-style-type: none"> Migrate systems to facilitate PBS restructuring in FY02 Rebaseline completed per Baseline Updating Guidance (BUG) Integrate technology into Projects Achieve pollution prevention/waste minimization 	Rebaseline activities completed on 1/10/01. All other activities on schedule for completion as planned.
Effective Leadership	<ul style="list-style-type: none"> Management Effectiveness Customer Satisfaction Effective Financial Management Cost/Price Analysis 	No concerns were identified in April.

Green

PERFORMANCE MEASURES/METRICS: PM&S

ERC identified five technologies to be deployed during FY01. Through May, seven technologies have been deployed.

Technology Deployment	PBS	Planned Date	(F)/(A) Date
Remote Retrieval System (Brokk™ 330N with appropriate attachments)	RL-ER06	2 nd quarter	6/01 (F)
3D Visual and Gamma Imaging System (Gamma Cam)	RL-ER06	2 nd quarter	2/01 (A)
In Situ Object Counting System (ISOCS)	RL-ER06	2 nd quarter	2/01 (A)
Polyshield SS-100 Fixative	RL-ER01	12/00	12/00 (A)
Surveillance and Measurement Model 935	RL-ER01	2 nd quarter	5/01 (A)
Ultrasonic Liquid Level Detection	RL-ER06	2 nd quarter	2/01 (A)
Guzzler Vacuum Truck	RL-ER03	2 nd quarter	2/01 (A)
Laser-Assisted Ranging and Data System	RL-ER06	2 nd quarter	3/01 (A)

Green

STRETCH AND SUPERSTRETCH GOALS: PM&S

None identified at this time.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

PROJECT STATUS (COST/SCHEDULE): PM&S

• **Schedule:**

Program Management & Support	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER10 ERC Program Management & Support	17,148	16,826	(322)
ER10 RL Program Management & Support	3,215	2,298	(917)
TOTAL PM&S	20,363	19,124	(1,239)

Green

PBS-ER10 – Program Management and Support

Schedule Variance = **(\$1239K); (6.1%)** [Last Month: (\$953K); (5.6%)]

Cause: Hanford Environmental Information System (HEIS)/Hanford Geographic Information System (HGIS)/Waste Information Data System (WIDS) and project specific databases staffs are working on higher priority direct project scope.

Resolution: Temporary schedule delay; subcontractor and temporary labor on board.

Cause: Late billing on site-wide assessments.

Resolution: RL is discussing billing/timing with other site contractors/government agencies.

• **Cost:**

Program Management & Support	FY01 EAC	BCWP	AWP	Variance
		\$K	\$K	\$K
ER10 ERC Program Management & Support	30,792	16,826	16,329	497
ER10 RL Program Management & Support	6,381	2,298	2,298	0
TOTAL PM&S	37,173	19,124	18,627	497

Green

PBS-ER10 – Program Management and Support

Cost Variance = **\$497K; 2.6%** [Last Month: \$346K; 2.2%]

Cause: Records and Document Control, Radiological Control, Procurement, and Project Services support needs were less than anticipated.

Resolution: Underrun has been trended and is reflected in the EAC.

REGULATORY ISSUES: PM&S

None identified at this time.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): PM&S

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): PM&S

None identified at this time.

INTEGRATION ACTIVITIES: PM&S

None identified at this time.

Environmental Management Performance Report

June 2001

Section C - Central Plateau Information

- Groundwater/Vadose Zone Integration Project
- Surveillance/Maintenance & Transition Projects



Clino Change Out at 100-NR-2



An RMT Surveying a Newly Discovered Site



Setting Up a Plastic Enclosure Barrier for Asbestos Removal at the 181-N Pump House

Focused on Progress...
Focused on Outcomes!

Financial/Performance Measures data as of month-end April.
All other data as of May 24 (unless otherwise noted).



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

E0105092a.2

**Groundwater/Vadose Zone
Integration Project
(GW/VZ)**

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

**Financial / Performance Measures data as of month-end April.
All other data as of May 24, 2001 (unless otherwise noted).**

Groundwater/Vadose Zone Integration Project(GW/VZ):

ACCOMPLISHMENTS: GW/VZ

GW/VZ INTEGRATION PROJECT:

Peer Review: The ninth Expert Panel meeting was conducted on April 25-27. This meeting focused on the Integration Project status and transition strategy.

Science and Technology: The draft review was completed for the Science and Technology (S&T) Appendix for the *Tank Farm Vadose Zone Characterization Project S-SX Tank Farm Field Investigation Report*.

GROUNDWATER MANAGEMENT:

Long-Term Groundwater Monitoring: The Resource Conservation and Recovery Act (RCRA) quarterly report for October - December 2000 was completed and transmitted to RL.

Agreement was reached with the Washington State Department of Ecology (Ecology) on revised statistical methods and control limits for the 300 Area process trenches.

Waste Management: The technical review was completed for the final draft of the Purgewater Strategy document. Preparations were made to transmit the strategy document to RL and the regulators for review and approval.

Tritium Investigation: The U.S. Environmental Project Agency (EPA) approved the Sampling and Analysis Plan (SAP) for the tritium investigation soil gas work to be performed at the 618-11 Burial Ground. Installation and sampling of the soil gas probes were initiated.

RCRA Well Installation: On April 2, *Tri-Party Agreement* Milestone M-24-50, "Install Two Additional RCRA Wells at SST WMA TX-TY" (due April 30) was completed, one month ahead of schedule. The contractor was demobilized, and ERC is continuing waste dispositioning activities.

Summary of Five Pump and Treat Systems: All groundwater pump and treat systems operated above the planned 90% availability levels in April. Since system inception, the five pump and treat systems have processed over 5 billion liters of groundwater, removing approximately 5,367 kilograms of carbon tetrachloride, 237 kilograms of chromium, and 1.01 curies of Strontium-90. Approximately 693 million liters of groundwater have been processed in fiscal year 2001 (FY01), removing approximately 786 kilograms of carbon tetrachloride, 44 kilograms of chromium, and 0.122 curies of Strontium-90.

200-ZP-2 Vapor Extraction System: The 200-ZP-2 soil vapor extraction system was successfully restarted in April as planned. Approximately 444 million liters of groundwater were processed during April, removing 99 kilograms of carbon tetrachloride. Planning is underway for the construction of a new groundwater well at the Plutonium Finishing Plant (PFP).

Green

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

ACCOMPLISHMENTS continued: GW/VZ	
<p>200 AREA ASSESSMENT:</p> <p>A <i>Tri-Party Agreement</i> change request was approved on April 19 that revised the completion date for Milestone M-13-26, "Submit Plutonium/Organic-Rich Process Waste Group (200-PW-1) Work Plan" from June 30 to December 31 (FY02).</p> <p>The drilling contract was awarded for the 200-TW-1 and 200-TW-2 Operable Units FY01 field characterization activities.</p>	
SAFETY/ISMS/CONDUCT OF OPERATIONS: GW/VZ	
See Executive Summary.	
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: GW/VZ	
None identified at this time.	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: GW/VZ	
None identified at this time.	
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): GW/VZ	
<ul style="list-style-type: none"> • DOE Secretarial: None identified at this time. 	
<ul style="list-style-type: none"> • DOE EM Performance Agreement: None identified at this time. 	

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: GW/VZ

• **Tri-Party Agreement Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
M-13-00K	Submit One 200 NPL RI/FS (RFI/CMS) Work Plan	12/31/00	12/21/00 (A)
M-13-25	Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan	12/31/00	12/21/00 (A)
M-24-46	Install Three Additional Wells at SST WMA S-SX	12/31/00	12/27/00 (A)
M-24-47	Install Four Additional Wells at SST WMA T	12/31/00	12/27/00 (A)
M-24-48	Install Three Additional Wells at SST WMA TX-TY	12/31/00	12/27/00 (A)
M-24-00L	Install RCRA Groundwater Monitoring Wells at the Rate of up to 50 in Calendar Year 2000 if Required	12/31/00	12/27/00 (A)
M-16-27A	Complete 100-HR-3 Phase I, ISRM Barrier Emplacement	12/31/00	11/01/00 (A)
M-24-49	Install Three Additional Wells at SST WMA S-SX	4/30/01	3/30/01 (A)
M-24-50	Install Two Additional Well at SST WMA TX-TY	4/30/01	4/02/01 (A)
M-15-41A	Complete 200-TW-1 OU Field Work through Drilling and Sample Collection	10/31/01	10/31/01 (F)
M-15-42A	Complete 200-TW-2 OU Field Work through Drilling and Sample Collection	10/31/01	10/31/01 (F)
M-13-26	Submit Plutonium/Organic-Rich (200-PW-1) Work Plan	12/31/01	12/31/01 (F)
M-13-00L	Submit Three 200 NPL RI/FS (RFC/CMS) Work Plans	12/31/01	12/31/01 (F)*
M-16-27B	Complete 100-HR-3 Phase II, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)	12/31/01	12/31/01 (F)
M-24-00M	Install RCRA Groundwater Monitoring Wells at Rate of up to 50 in Calendar Year 2001 if Required	12/31/01	12/31/01 (F)

Green

Yellow

Green

*M-13 series milestones will require renegotiation to reflect the revised 200 Area strategy. This issue has been discussed with the regulators at the last two *Tri-Party Agreement* Quarterly Reviews. A draft *Tri-Party Agreement* change request is being prepared to modify M-13-00L. Regulators have indicated they will address individual milestones on a case-by-case basis.

• **DNFSB Commitment:**

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

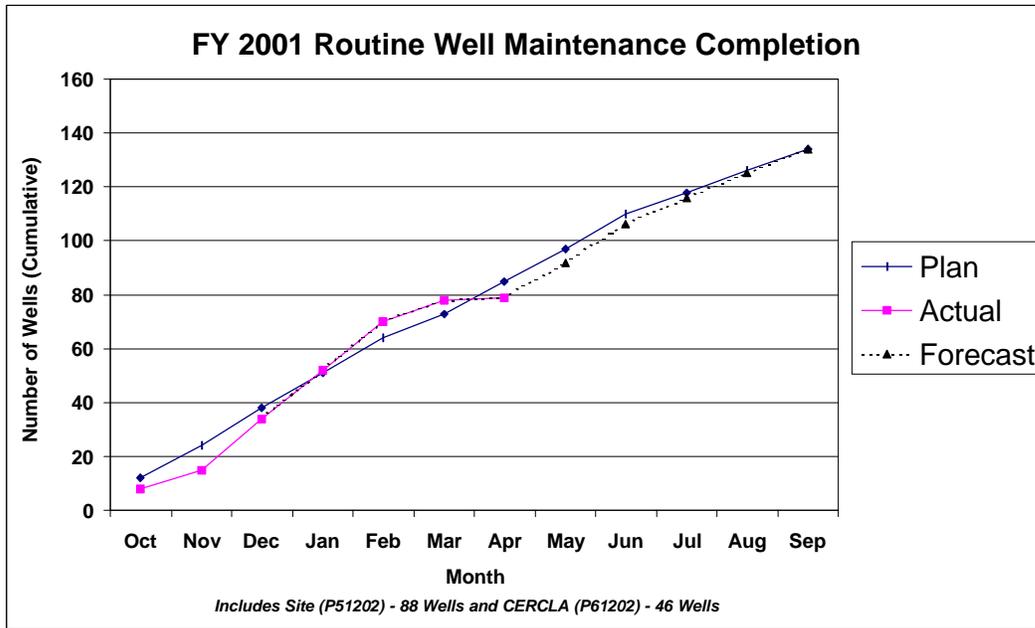
JUNE 2001

PERFORMANCE OBJECTIVES: GW/VZ

PI	Task	Status
GW – ISRM Barrier	<ul style="list-style-type: none"> Drill 24 wells and inject sodium dithionite by 9/30/01 <p>CV <5.0%; SV <7.5% for BHI portion of ER-08</p>	In process of recovering drilling schedule; continuing to evaluate barrier performance.
GW – 618-11 Tritium Plume	<ul style="list-style-type: none"> Drill wells to establish 20,000 pCi/L Contour, Collect Groundwater Samples by 9/30/01 (Stretch) <p>CV <5.0%; SV <7.5% for BHI portion of ER-08</p>	Work has commenced. (*Detail Section 6C)

Green

PERFORMANCE MEASURES/METRICS: GW/VZ



Green

Cumulative	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Plan	12	24	38	51	64	73	85	97	110	118	126	134
Actual	8	15	34	52	70	78	79					
Forecast								92	106	116	125	134

Notes:
 Plan: Well Maintenance is planned on a quarterly basis and spread evenly by month for purposes of this graph.
 Forecast: When wells are "released" to the subcontractor for maintenance, he is given 90 days for completion. That is also spread evenly by month, for that 90-day period, for this graph.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
 JUNE 2001

STRETCH AND SUPERSTRETCH GOALS: GW/VZ

FY01 GW/VZ "Stretch" Goals	Approved BCPs (K)
Tritium Plume at 618-11 Burial Ground – Collect GW Samples by 9/30/01 (BCP 21090 approved 1/01)	\$595.4K
S/Total GW – Vadose Zone Stretch Goals:	\$595.4K

Green

FY01 GW/VZ "Superstretch" Goals	Approved BCPs (K)
*Complete Remediation of 60 Square Miles of Hanford Site: (1) River Corridor Well Decommissioning	\$1581.3K
S/Total GW – Vadose Zone Superstretch Goals:	\$1581.3K

Green

*Carried over from FY00.

PROJECT STATUS (COST/SCHEDULE): GW/VZ

- **Schedule:**

GW/VZ Integration Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER02 200 Area Remedial Actions	1,623	928	(695)
ER08 Groundwater Management	16,401	14,738	(1663)
VZ01 Groundwater/Vadose Zone	6,774	6,217	(557)
TOTAL Groundwater	24,798	21,883	(2,915)

Green

PBS-ER02 – 200 Area Remedial Action (Assessment)

Schedule Variance = **(\$695K); (42.8%)** [Last Month: (\$282K); (25.8%)]

Cause: Delay in TW-1 and TW-2 pre-job planning activities and drilling procurement due to difficulties in coordinating the many cross-project field activities.

Resolution: Subcontract has been awarded and is scheduled to start June 18; schedule supports completion of drilling activities by September 7. Field closeout may carryover to FY02.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001

PROJECT STATUS (COST/SCHEDULE) continued: GW/VZ

PBS-ER08 – Groundwater Management

Schedule Variance = **(\$1663K); (10.1%)** [Last Month: (\$886K); (6.8%)]

Cause: RCRA well drilling delayed due to contaminated soil encountered; waste shipments were placed on hold to pursue regulator recommended approach.

Resolution: *Tri-Party Agreement* milestones are not in jeopardy from this delay; schedule has been revised to show more aggressive plan.

Cause: Well decommissioning delays caused by extended well documentation search and selection.

Resolution: The project is updating documentation to accurately account for Hanford wells so decommissioning can continue.

Cause: In Situ REDOX Manipulation (ISRM) well drilling is behind schedule due to changes in drilling methods and the Archeological Discovery Investigation.

Resolution: Schedule recovery anticipated by year-end.

Cause: Pacific Northwest National Laboratory (PNNL) groundwater modeling and monitoring on source release inventory and hydrologic assessment tasks are behind schedule due to resources deployed to higher priority work. Monitoring Network Design awaiting decisions on Low Level Burial Grounds RCRA boundary; also awaiting Ecology response letter regarding groundwater monitoring approaches for other RCRA facilities.

Resolution: Source release activities and hydrologic framework tasks are being accelerated. Ecology has transmitted a letter allowing proposals for alternate monitoring approaches; work will begin on these approaches for interim status sites.

PBS-VZ01 – Groundwater/Vadose Zone

Schedule Variance = **(\$557K); (8.2%)** [Last Month: (\$775K); (13.2%)]

Cause: Additional time required to solicit potential bidders and to implement DOE-directed guidance for virtual library software methodology.

Resolution: A baseline change proposal (BCP) has been approved to defer development of three virtual library modules into FY02. This same BCP also reprogrammed the budget for an additional two modules this year. This change provides a more realistic execution plan; schedule variance will be recovered by fiscal year-end.

Cause: The Groundwater/River interface study did not start as scheduled due to higher priority work.

Resolution: Additional resources on task have been assigned; schedule recovery is expected in June/July.

Cause: Shakedown runs for historical matching are taking longer than anticipated, delaying the start of the model runs and preparation of the assessment report.

Resolution: Several software and data problems have been identified, and are being addressed. Delay will not impact completion of work scheduled this year.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

PROJECT STATUS (COST/SCHEDULE) continued: GW/VZ

• **Cost:**

GW/VZ Integration Project	FY01 EAC	BCWP	ACWP	Variance
		\$K	\$K	\$K
ER02 200 Area Remedial Actions	4,323	928	1,036	(108)
ER08 Groundwater Management	30,809	14,738	14,572	166
VZ01 Groundwater/Vadose Zone	10,583	6,217	6,034	183
TOTAL Groundwater	45,715	21,883	21,642	241

Green

PBS-ER02 – 200 Area Remedial Action(Assessment)

Cost Variance = **(\$108K); (11.6%)** [Last Month: (\$15K); (1.9%)]

Cause: Actual project labor has been higher than planned.

Resolution: Overrun has been trended.

PBS-ER08 – Groundwater Management

Cost Variance = **\$166K; 1.1%** [Last Month: \$233K; 1.9%]

Cause: Sample collection and analysis underruns due to cancelling some well trips and analyses, and other Hanford contractors' costs being less than planned. Underrun offset by an overrun in 100-HR-3 chemical treatment upgrades.

Resolution: Underrun will be used to perform additional environmental restoration work. Overrun has been trended and reflected in the EAC.

PBS-VZ01 – Groundwater/Vadose Zone

Cost Variance = **\$183K; 2.9%** [Last Month: \$169K; 3.3%]

Cause: Phase I Features, Events, and Processes (FEP) review by Characterization of Systems (COS) required fewer resources than planned; offsetting overrun in SAC historical matching related to system enhancements.

Resolution: Underrun will be used to perform other ER activities. Work on individual technical element history matching is complete and no additional variances are anticipated. Runtime reductions have been implemented and the project continues to seek ways to streamline the overall history matching and initial assessment runs.

Surveillance/Maintenance and Transition Projects (SM&T)

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

**Financial / Performance Measures data as of month-end April.
All other data as of May 24, 2001 (unless otherwise noted).**

Surveillance/Maintenance & Transition Projects (SM&T):

ACCOMPLISHMENTS: SM&T

Surveillance and Maintenance: S&M activities that were performed in April to ensure inactive facility integrity and safety included the following:

- Initiation of asbestos abatement at the 181-N pump house located in the 100 N Area. Approximately 217 cubic meters (712 cubic feet) of nonradioactive, friable asbestos is planned for removal from the 181-N pumps, piping, and river screen wash systems.
- Completion of the B Reactor draft Engineering Evaluation/Cost Analysis (EE/CA) internal review. Draft A of the EE/CA was submitted to RL, EPA, and the HAB for review and comment.
- Completion of the EE/CA for the hexone tanks interim stabilization effort.
- Issuance of the final report detailing annual structural inspection findings for the Plutonium Uranium Reduction Extraction (PUREX) facility canyon roof. A report summary is being prepared for management review and action. Observations indicate that water infiltration is continuing from the deteriorated roof cover.
- Issuance of the subcontract for 212-N, 212-R, REDOX, and 221-U building roof repairs.

Canyon Disposition Initiative: Laboratory analysis and data review activities were completed for the sampling activities that were performed at U Plant the end of FY00 in support of the Canyon Disposition Initiative (CDI). Characterization results will play a crucial role in the formulation of the Record of Decision (ROD) for final disposition of the U Plant structure.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: SM&T

See Executive Summary.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: SM&T

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: SM&T

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): SM&T

• **DOE Secretarial:**
None identified at this time.

• **DOE EM Performance Agreement:**
None identified at this time.

• **Tri-Party Agreement Milestones:**
None identified at this time.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: SM&T				
<ul style="list-style-type: none"> • DNFSB Commitment: None identified at this time. 				
PERFORMANCE OBJECTIVES: SM&T				
None identified at this time.				
PERFORMANCE MEASURES/METRICS: SM&T				
None planned in FY01.				
STRETCH AND SUPERSTRETCH GOALS: SM&T				
None identified at this time.				
PROJECT STATUS (COST/SCHEDULE): SM&T				
<ul style="list-style-type: none"> • Schedule: 				
Surveillance/Maintenance & Transition Project	BCWS	BCWP	Variance	
	\$K	\$K	\$K	
ER05 Surveillance & Maintenance	8,453	7,461	(992)	
ER07 Long-Term Surveillance & Maintenance	6	6	0	
TOTAL SM&T	8,459	7,467	(992)	
<p>PBS-ER05 – Surveillance and Maintenance Schedule Variance = (\$992K); (11.7%) [Last Month: (\$518K); (7.6%)]</p> <p>Cause: Asbestos abatement at the 181-N Pump House started later than planned.</p> <p>Resolution: Work started in late April and is expected to be completed in June.</p> <p>Cause: Additional time was needed to evaluate new sampling and video equipment on the hexone tank project; 222-S lab sampling (by others) is taking longer than expected; evaluation of potential hazards by Engineering and an outside expert resulted in some delay; this also delayed work on the Inactive Miscellaneous Underground Storage Tank (IMUST) Strategy Plan and Long Range Plan (LRP).</p> <p>Resolution: Sampling and video taping of the tanks interior contents occurred simultaneously, compressing the schedule; work is nearing completion on a draft IMUST and LRP documents; full schedule recovery is expected before the end of FY01.</p> <p>Cause: In the Detailed Work Plan (DWP), the assumption was that the asbestos abatement subcontract would be awarded and expended in November 2000. Combining 100 and 200 Area asbestos work subsequently resulted in a subcontract where work will commence in April 2001 and still finish this fiscal year.</p> <p>Resolution: A subcontract has been placed to execute workscope activities. Work is planned from April through August 2001. No further corrective action required.</p>				
<p>PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$59K for FY01) Schedule Variance = N/A</p>				

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2001**

PROJECT STATUS (COST/SCHEDULE) continued: SM&T

• **Cost:**

Surveillance/Maintenance & Transition Project	FY01 EAC	BCWPS	ACWP	Variance
		\$K	\$K	\$K
ER05 Surveillance & Maintenance	13,309	7,461	7,229	232
ER07 Long-Term Surveillance & Maintenance	50	6	2	4
TOTAL SM&T	13,359	7,467	7,231	236

Green

PBS-ER05 – Surveillance and Maintenance

Cost Variance = **\$232K; 3.1%** [Last Month: \$134K; 2.1%]

Cause: Underruns in 200 Area S&M work on passive vent sealing, waste disposition, and roof inspections; offset by hexone tank sampling cost overruns due to additional engineering, job hazard analysis, mobilization costs, and by additional CDI core sampling cost.

Resolution: Underrun has been trended and is reflected in the EAC; underrun will be used to perform additional work. Sampling costs will continue to overrun and has also been trended and reflected in the EAC.

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$59K for FY01)

Cost Variance = N/A

REGULATORY ISSUES: SM&T

None identified at this time.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): SM&T

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): SM&T

None identified at this time.

INTEGRATION ACTIVITIES: SM&T

None identified at this time.