

Pacific Northwest National Laboratory Environmental Management Performance Report

September 2001

**PREPARED FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE
OFFICE OF ENVIRONMENTAL MANAGEMENT**

**Pacific Northwest National Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**

Table of Contents

INTRODUCTION	1
EXECUTIVE SUMMARY	2
SAFETY OVERVIEW	2
COST/SCHEDULE PERFORMANCE STOPLIGHT	3
PROJECT PERFORMANCE SUMMARY	4
MISSION	4
ACTIVITY SUMMARY	4
PERFORMANCE DATA AND ANALYSIS	5

This document provides the Department of Energy Richland Operations Office (DOE-RL) with a report of the Pacific Northwest National Laboratory (PNNL) performance by Battelle Memorial Institute and its subcontractors.

In Section A, the Executive Summary, text and graphics report the safety metrics status for all PNNL activities. Senior management's overall performance assessment of all Environmental Management activities conducted at PNNL is presented in a stoplight chart.

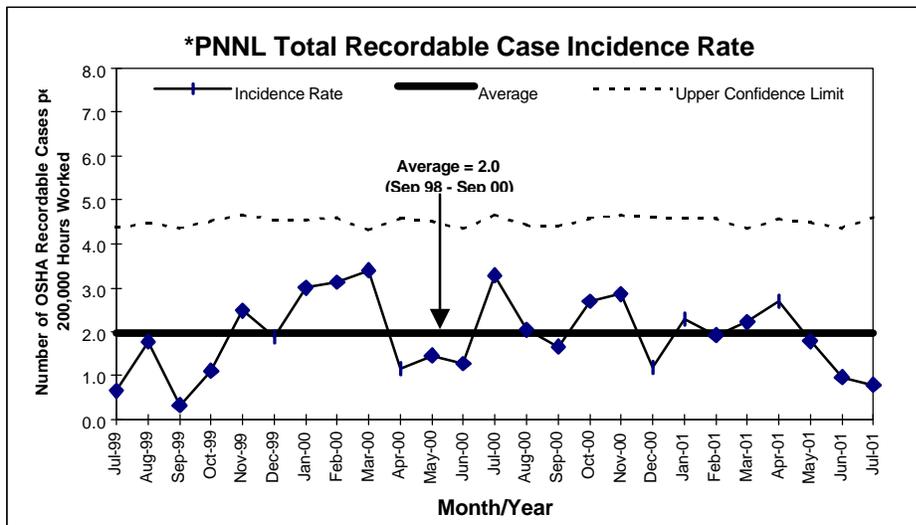
Section B, Project Performance Summary, provides a brief summary of the month's performance for the PNNL lead activity, PNNL Waste Management (PBS RL-ST01). More detailed information can be found within PNNL-7911-118a, PNNL's Project Status Report for July 2001. Summary analyses pertaining to PNNL's support to other Project Baseline Summaries (PBSs) are addressed in the contractor's report having lead responsibility for that scope.

Unless otherwise noted, information in this report is current as of July 29, 2001.

This section provides an executive-level summary of performance information and is intended to bring to management’s attention that information considered to be most noteworthy. The section begins with overview of safety, a summary of FY 2001 performance, followed by a spotlight chart on overall performance.

Safety Overview

The focus of this section is on documenting trends in work-related injury and illness rates. These are the same performance indicators as appear in the FY 2001 Battelle Performance Evaluation and Fee Agreement, which is part of the Pacific Northwest National Laboratory Operations Contract. The monthly rates for Recordable and Lost Workday cases are presented graphically in this section and are monitored for statistically significant changes. Current efforts to improve performance are being made through the continued implementation of the Integrated Safety Management System (ISMS), and the development and implementation of the Voluntary Protection Program (VPP).



FY 01 Rate Overview:
 Cumulative To Date =1.9
 Lab Specified Level \leq 2.2

This indicator has been generally stable over the long term. The data for FY 2001 continue to randomly fluctuate within the anticipated control limits.

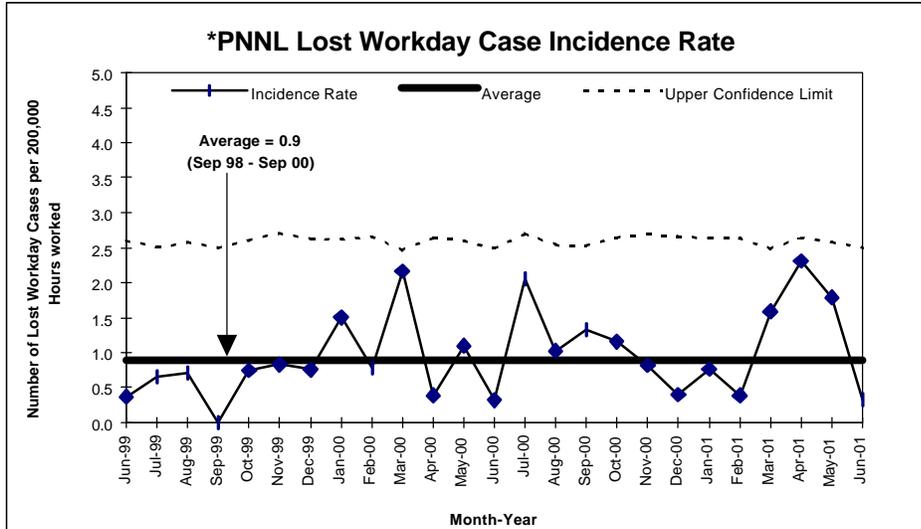
Green

*Includes all Pacific Northwest National Laboratory Operations.

Green: Satisfactory

Yellow: Significant improvement required

Red: Unsatisfactory



FY 01Rate Overview:
 Cumulative To Date = 1.1
 Lab Specified Level ≤ 1.1

This indicator has been generally stable over the long term. The data for FY 2001 continue to randomly fluctuate within the anticipated control limits.

Green

*Includes all Pacific Northwest National Laboratory Operations.

Cost/Schedule Performance Stoplight

The following rating reflects overall cost and schedule performance for activities conducted by PNNL. *(Narrative not required when rating is green.)*

Green

- Green: Satisfactory
- Yellow: Significant improvement required
- Red: Unsatisfactory

This section provides cost and schedule performance, any significant issues, and upcoming baseline change requests, if any, for the period covered. In FY 2001, Battelle Memorial Institute has lead responsibility over PBS RL-ST01, PNNL Waste Management WBS 1.7.1.

Mission

WBS 1.7.1 provides PNNL with waste management services and compliant operations in support of science and technology development for the multiprogramming needs of the U.S. Department of Energy (DOE) Complex. These services include:

- essential surveillance and maintenance of DOE laboratory facilities assigned to PNNL for safe containment of radioactive and hazardous materials
- infrastructure required to manage wastes and effluents currently generated at the PNNL
- operational compliance services to meet regulatory requirements and operating permits including environment, safety, and health regulations
- management of legacy wastes and contamination remaining from past PNNL research operations.

Activity Summary

The following summarizes the activities associated with PNNL Waste Management services and operations conducted during July 2001.

- Scheduled Radiochemical Processing Laboratory (RPL) radiological surveys and nuclear control inspections were performed. Two facilities and sites were scheduled for inspection. Staff members completed inspections for 6652-H and the 3614-A facilities. Some deteriorated wood railings were removed from the roof of the 3764 building. The quarterly audit of the 306-W Isolated Facility was completed. Removal of sanitary and fire water lines from the shutdown facilities in the 300 Area have all been completed.
- Scheduled routine waste management activities were performed during the period. All air and water samples required during the month of July were collected, and confirmed that all routine effluent discharges from Pacific Northwest operations reported to date are below historical release levels and compliant with existing state and federal permits.
- One-hundred-one National Environmental Protection Act (NEPA) reviews were completed on experimental projects within the Laboratory to ensure that the associated project scope will not have potential to create environmental risks.
- High Dose Waste Disposal: As addressed under significant concerns, 5 drums are being evaluated to determine corrective actions to allow shipment to the Central Waste Complex. The first shipment of this material on June 28th satisfied approximately 1/3 of the AMT/PNNL part of the Tri Party Agreement M92-16 milestone, *300 Area Special Case Waste*.
- Special Case Waste Fuel Fragments: The fuel fragments that are currently located in the RPL facility were batched, packaging configuration verified, grouted as necessary, and most of this material will be packaged in 7 PNNL SARP drums complete the packaging process during July. Actual shipment is planned for this fiscal year.

Performance Data and Analysis

As of July 29, 2001 the cumulative costs are \$10.4M with a positive cost variance of \$0.9M and a cumulative schedule variance of negative \$1.0M. The cost and schedule variances are within the 10% reporting threshold.

Cost Performance (\$M):			
	BCWP	ACWP	Variance
PNNL Waste Management	\$11.3	\$10.4	\$0.9

Schedule Performance (\$M):			
	BCWP	BCWS	Variance
PNNL Waste Management	\$11.3	\$12.3	(\$1.0)

FY 2001 Cost/Schedule Performance - All Fund Types Cumulative to Date Status - (\$000)

WBS	PBS	BCWS	BCWP	ACWP	CV	%	SV	%
1.7.1	RL-ST01	\$12,288	\$11,309	\$10,406*	\$903	8	(\$979)	-8
Total		\$12,288	\$11,309	\$10,406*	\$903	8	(\$979)	-8

*Numbers reflect PNNL system; per DISCAS actuals, including \$ expended by Fluor for S&M of 242B/BL, are \$10566.6K. PNNL has \$1,573.0K carryover, is expecting \$14,076.0K B/A in FY 2001 for a total of \$15,649.0K. Current new B/A authorization is \$12,366.9K

Cost / Schedule Performance Indices

FY 2001 Cum to Date Status
 (\$000s)

