

## **SUMMARY**

Analytical Services [222-S, Hanford Analytical Services Program (HASP), Waste Sampling and Characterization Facility (WSCF)] consists of Analytical Services, PBS WM06, WBS 1.2.4.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of March 31, 2000. Other information is updated as noted.

Fiscal-year-to-date-milestone performance (EA, DOE-HQ and RL) shows no milestones are due this reporting period.

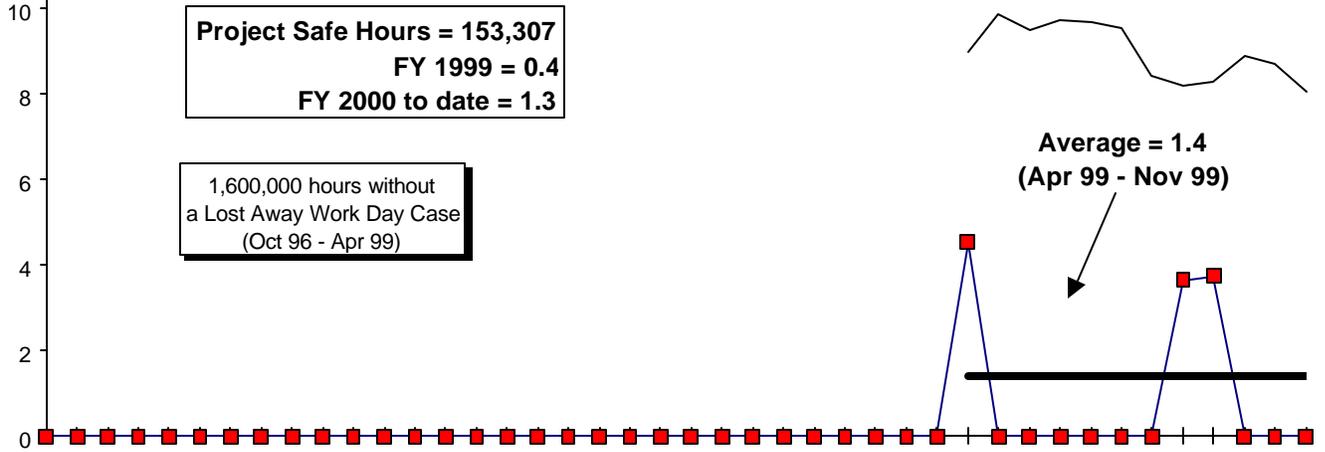
## **ACCOMPLISHMENTS**

- March analytical output has been high, with a total of 6.4 Analytical Equivalent Units (AEUs) processed at the 222-S Laboratory through April 21, 2000 (FYTD) in support of the RPP (TWRS) tank characterization program (versus 6.9 AEUs planned). Recent reports issued include AY-102 Safety Screen Results, and U-106 and SY-102 Compatibility Results.
- Procedures, methods, equipment, and training were significantly revised to meet the new WIPP permit from the State of New Mexico. Supported closure of the Corrective Action Reports (CARs) from the Carlsbad Area Office audit of the Hanford TRU Project. Performed 8,700 analyses (FYTD) through March 24, 2000 at WSCF for a wide variety of customers as planned.

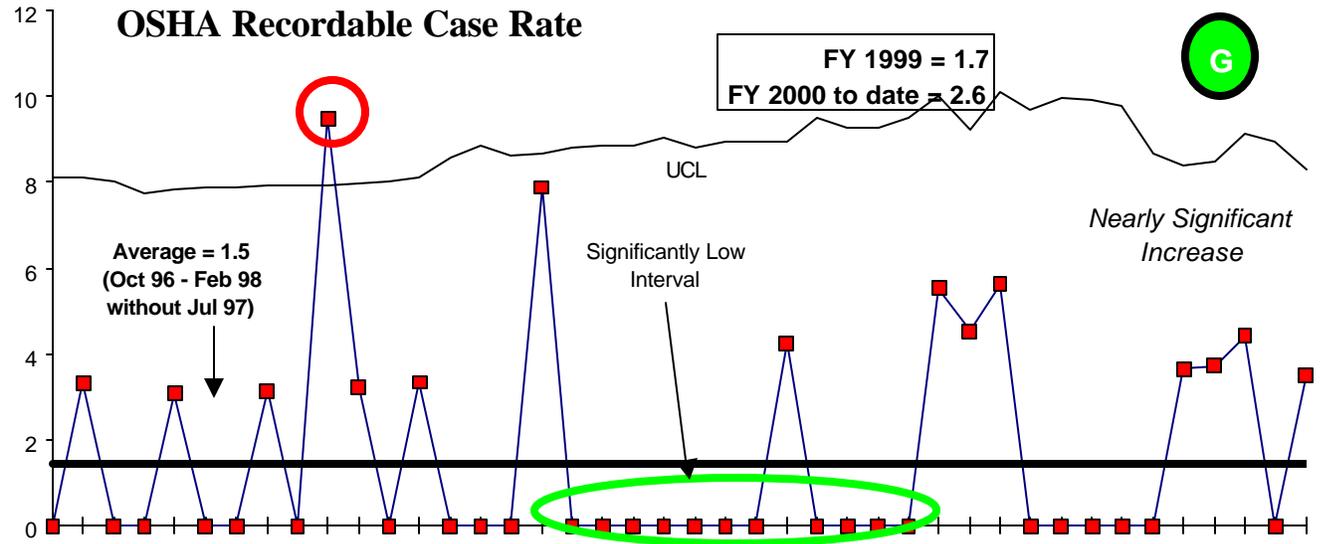
## **SAFETY**

In March, there were no OSHA recordable cases, no lost/restricted days and 2 first aid cases. The project continues to focus on safety and personal and team accountability. The four-month trend is a positive indication for performance during the second half of FY 2000.

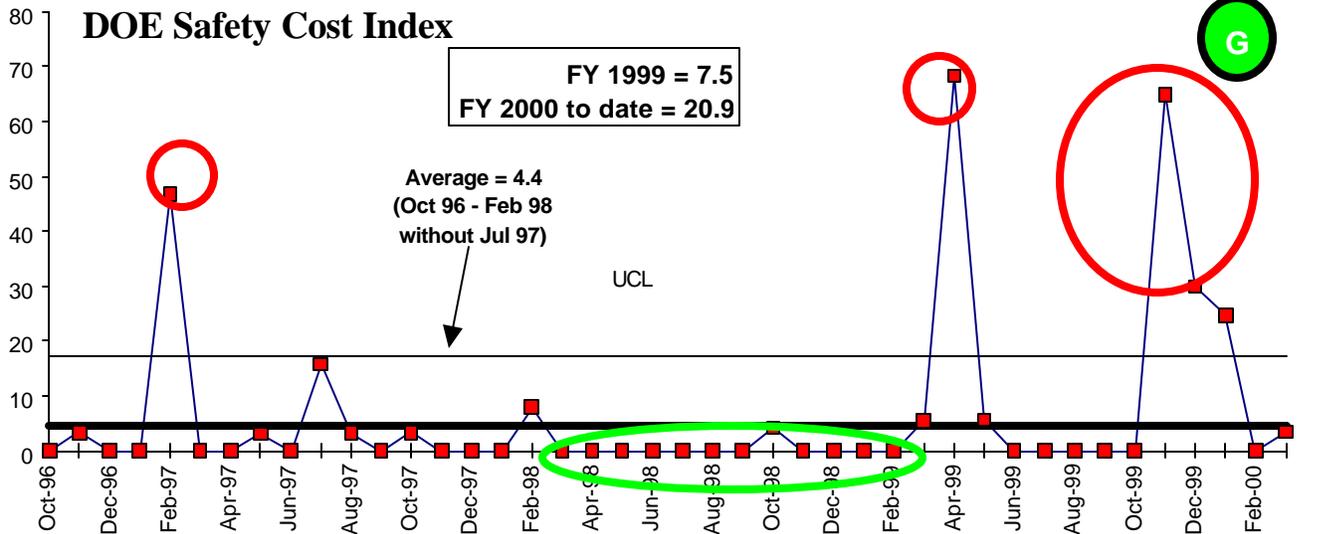
**Lost Away Workday Case Rate**



**OSHA Recordable Case Rate**



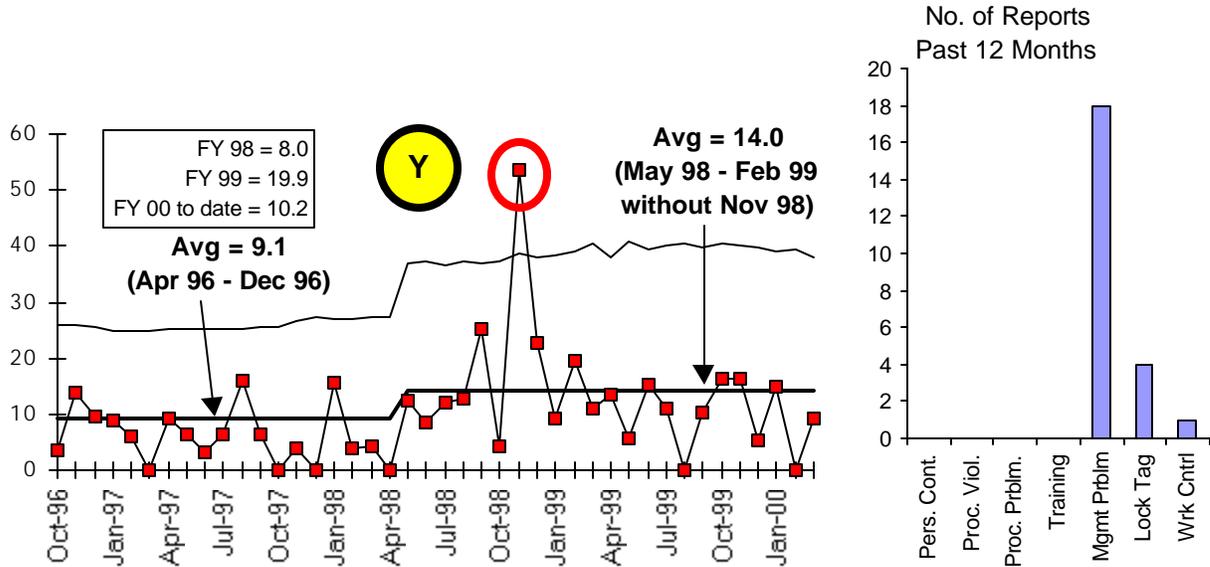
**DOE Safety Cost Index**



## CONDUCT OF OPERATIONS / ISMS STATUS

### CONDUCT OF OPERATIONS

Green



### ISMS STATUS

Green

Analytical Services ISMS status is included in the Waste Management Project Section of this report. Overall, on track for the June 2000 Phase II verification.

## BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

No breakthroughs or opportunities for improvement were identified at this time.

## UPCOMING ACTIVITIES

**WIPP Certification and Waste Shipments** -- Continue headspace gas analysis in support of the Hanford TRU Project and waste shipment to WIPP.

**242A Evaporator Operations** – Support the April/May campaign.

**ORP Readiness to Proceed** – It has been determined that Analytical Services is prepared to support the readiness to proceed decision for the BNFL contract. Key follow-up actions are:

- Formal specification of requirements from ORP to RL and then to FH
- Stable funding of needed equipment and facility repair in Multi-Year Work Plans (RL and ORP)
- Funding replacement of obsolete laboratory support systems (Information Management)
- Funding of staff to maintain core competency.

**COST PERFORMANCE (\$M):**

	<b>BCWP</b>	<b>ACWP</b>	<b>VARIANCE</b>
<b>Analytical Services</b>	\$13.4	\$14.2	- \$0.8

The \$0.8 million (6 percent) unfavorable cost variance is due to increased cost for 222-S Laboratory polychlorinated biphenyl (PCB) recovery and increased resources required to support compliance issues.

**SCHEDULE PERFORMANCE (\$M):**

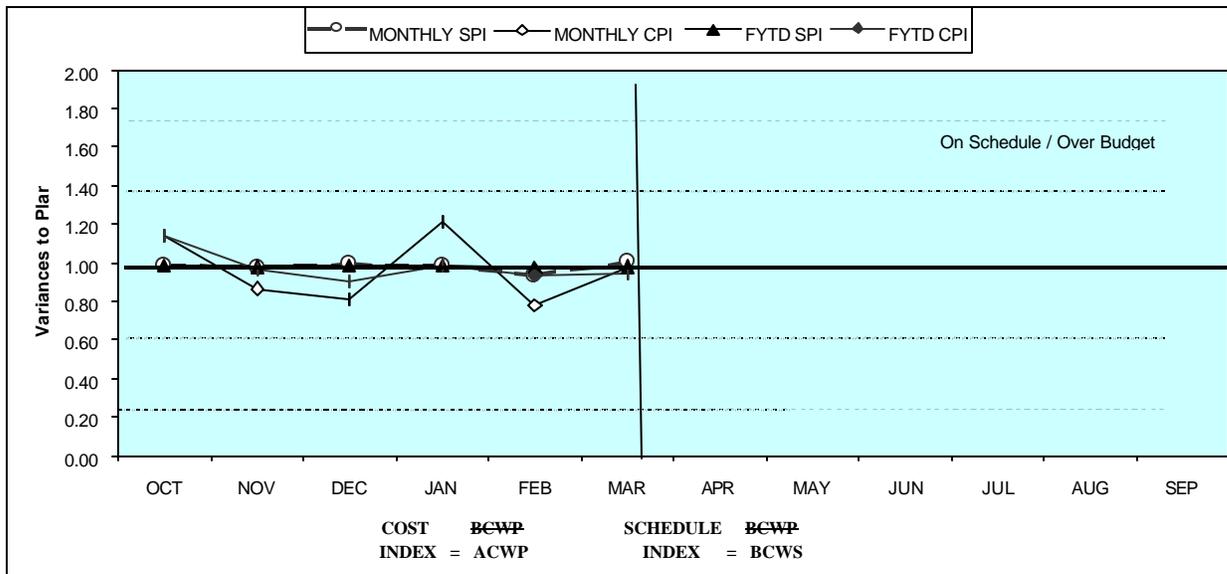
	<b>BCWP</b>	<b>BCWS</b>	<b>VARIANCE</b>
<b>Analytical Services</b>	\$13.4	\$13.7	- \$0.3

The \$0.3 million (2 percent) unfavorable schedule variance is within the established threshold.

**FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES  
 CUMULATIVE TO DATE STATUS – (\$000)**

		<b>FYTD</b>							
<b>Bv</b>	<b>PBS</b>	<b>BCWS</b>	<b>BCWP</b>	<b>ACWP</b>	<b>SV</b>	<b>%</b>	<b>CV</b>	<b>%</b>	<b>PEM</b>
WBS									
1.2.4	Analytical								
WM06	Services	\$ 13,693	\$ 13,421	\$ 14,193	\$ (272)	-2%	\$ (772)	-6%	\$ 27,818
<b>Total</b>		\$ 13,693	\$ 13,421	\$ 14,193	\$ (272)	-2%	\$ (772)	-6%	\$ 27,818

## COST/SCHEDULE PERFORMANCE INDICES (MARCH 2000 AND FYTD)



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.99	0.98	0.99	0.98	0.94	1.00						
MONTHLY CPI	1.14	0.87	0.81	1.22	0.78	0.98						
FYTD SPI	0.99	0.98	0.99	0.98	0.97	0.98						
FYTD CPI	1.14	0.96	0.91	0.99	0.94	0.95						
MONTHLY BCWS	\$1,588	\$2,340	\$1,973	\$2,806	\$2,283	\$2,613	\$2,279	\$2,673	\$1,990	\$1,984	\$2,581	\$2,617
MONTHLY BCWP	\$1,566	\$2,288	\$1,960	\$2,848	\$2,135	\$2,624						
MONTHLY ACWP	\$1,369	\$2,640	\$2,414	\$2,342	\$2,741	\$2,686						
FYTD BCWS	\$1,588	\$3,928	\$5,901	\$8,797	\$11,080	\$13,693	\$15,973	\$18,646	\$20,635	\$22,620	\$25,201	\$27,818
FYTD BCWP	\$1,566	\$3,854	\$5,814	\$8,662	\$10,797	\$13,421						
FYTD ACWP	\$1,369	\$4,009	\$6,423	\$8,765	\$11,506	\$14,193						

### COST VARIANCE ANALYSIS: (- \$0.8M)

**WBS/PBS**

**Title**

**1.2.4/WM06**

**Analytical Services**

**Description/Cause:** The unfavorable cost variance of \$0.8 million (5.8 percent) is due to increased costs for 222-S Tank 104 poly-chlorinated biphenyl recovery activities; increased resources in support of compliance issues, ISM implementation, corrective action management, and chemical technologist training development.

**Impact:** Current yearend spending projections indicate a \$1.3M overrun.

**Corrective Action:** Corrective actions have been identified and implemented to control spending. Due to the unforeseen significant extra costs for PCB management, FH senior management is reviewing whether full recovery to budget will be necessary.

## SCHEDULE VARIANCE ANALYSIS: (- \$0.3M)

**WBS/PBS**

**Title**

**1.2.4/WM06**

**Analytical Services**

**Description /Cause:** The unfavorable schedule variance of \$0.3M (2.0 percent) is within established threshold.

**Impact:** None

**Corrective Action:** None required.

### ISSUES

#### Technical Issues

Issues were self-identified in the WSCF laboratory's conformance to certain customers' (200 ETF, 300 TEDF) permit-mandated regulatory protocols (sample digestion, holding times and accreditation status).

Impacts could be discharge permit violations depending on the type of samples. A regulatory penalty is unlikely. Corrective actions are being taken in each area and customers have been notified to enable impact assessment. Rework of all useable archived samples is complete.

#### DOE/Regulator/External Issues

Nothing to report.

### BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY00 COST IMPACT \$000	SCH	TECH	DATE TO CCR	CCB APPROVD	PL APPROVD	CURRENT STATUS
WM-2000-002	1/3/00	Waste Management FY 2000 Mandated Funds Reduction	-\$879			02/17/00			BCR submitted to RL for review and approval.
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report at this time.							

## ANALYTICAL SERVICES – WBS 1.2.4 MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2000
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	0	0	0
EO	0	0	0	0	0	0	0	0
RI	0	0	0	0	0	1	0	1
<b>Total Project</b>	0	0	0	0	0	1	0	1

<b>Tri-Party Agreement / EA Milestones</b>
Nothing to report.
<b>DNFSB Commitments</b>
Nothing to report.

## MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
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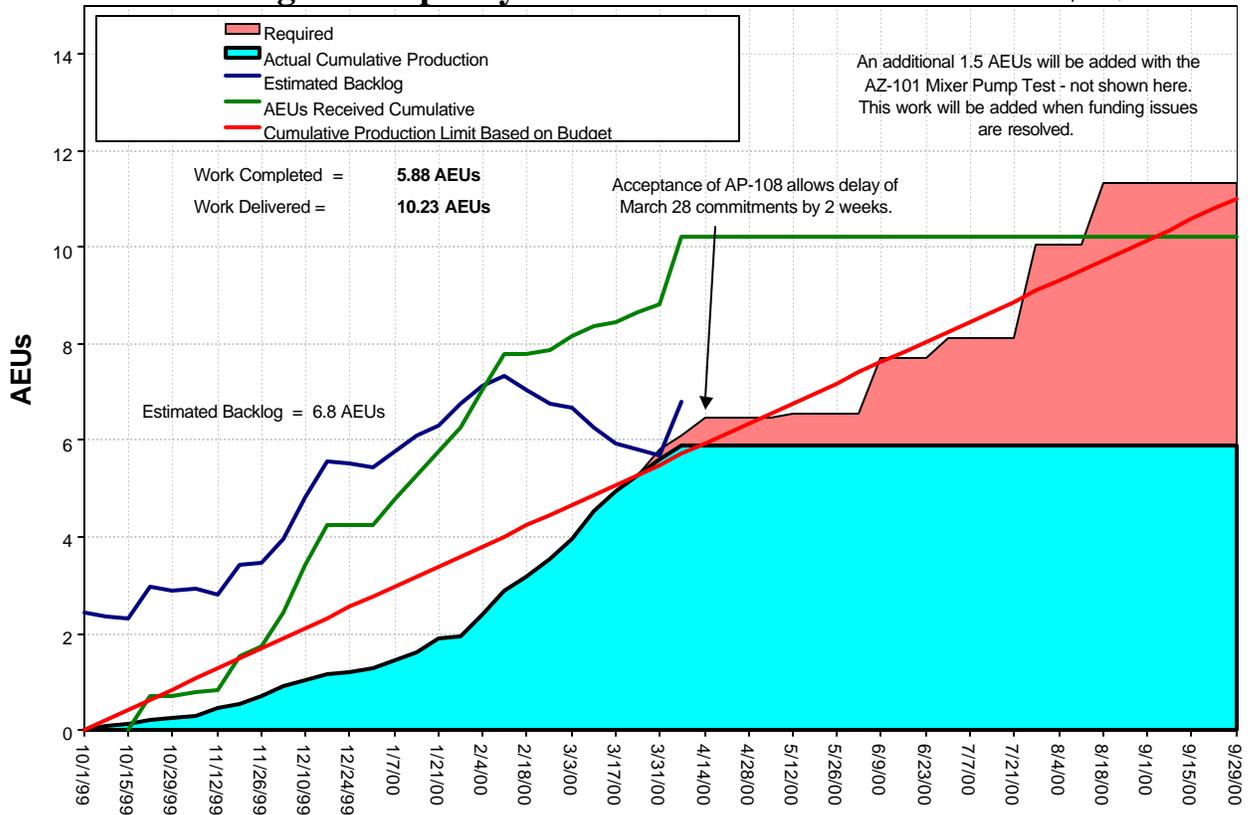
**OVERDUE – 0**

**FORECAST LATE – 0**

## PERFORMANCE OBJECTIVES

### Budgeted Capacity vs. Actual Production - TW01

April 10, 2000



Continue working with RPP on 222-S laboratory production integration. Will meet September commitment of eleven AEU. Production through April 21, 2000 is 6.4 AEU.

**Yellow**

## KEY INTEGRATION ACTIVITIES

- Support ORP Privatization Readiness-to-Proceed activities.
- Continue to support BNFL efforts to establish required analytical support for glassification operations.
  - In the longer term, BNFL could utilize unused space at WSCF for cold run test support and process laboratory analytical equipment testing.
  - The 222-S laboratory, with some refurbishment might become a low cost option to a new large-scale laboratory associated with the glassification facility.
- Continue to support RL with the WSCF path-forward study, which evaluates the spectrum of services WSCF provides versus other potential options.
  - Discussion by the Site Management Board is planned in May 2000.