



Section B:2

Analytical Services

(222-S, HASP, WSCF)

PROJECT MANAGERS

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SUMMARY

The Analytical Services (AS) Project [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 April 30, 2001. Other data is updated as noted.

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

NOTABLE ACCOMPLISHMENTS

The analytical laboratories are performing key support to site cleanup milestones. Year to date, the laboratories have completed 9 of 12 high level waste tank grab samples and 5 of 6 high level waste tank vapor samples. Additionally, the laboratories are 90% complete on the first of two scheduled high level waste tank core sample reports required to meet CHG performance incentives. The laboratories also provided timely support to the recently completed 242A evaporator campaign, and are supporting BHI work on the critical Hexone tank.

The Waste Sampling and Characterization Facility (WSCF) performed 9,831 analyses through April 2001 for a wide variety of customers. Production through May 17, 2001 was 10,344 analyses.

The WSCF 6266 building HVAC and associated equipment were shut down on May 10, 2001 for the planned upgrade of the North Laboratory HVAC by Fluor Federal Services construction personnel and installation of dampers in the ADM/NSL HVAC by maintenance forces. The systems were returned to service on May 21, 2001. Special thanks goes to WSCF Engineering, Maintenance, and Operations team for a job well done.

The Hanford Health and Safety Exposition was conducted in May at the TRAC facility in Pasco. There were 118 exhibits and vendors. The booths sponsored by Analytical Services were selected as the "Most Interactive" by an overwhelming percentage of the 20,144 attendees of EXPO. The EXPO Staff collectively selected the Analytical Services booths as the "Best of Show."

SAFETY

In April 2001, there was two First Aid Cases and two Report Only Cases. The past seven months of OSHA recordable case rate has been below average, and is now rated "green". The DOE Safety Cost Index is rated "yellow", even though the FY 2001 rate of 3.9 cents per hour is lower than the FY 2000 rate of 30.2 cents per hour and the FH goal of 8 cents per hour. A "green" rating will be achieved when additional safe operations are demonstrated which establishes a positive statistical trend.

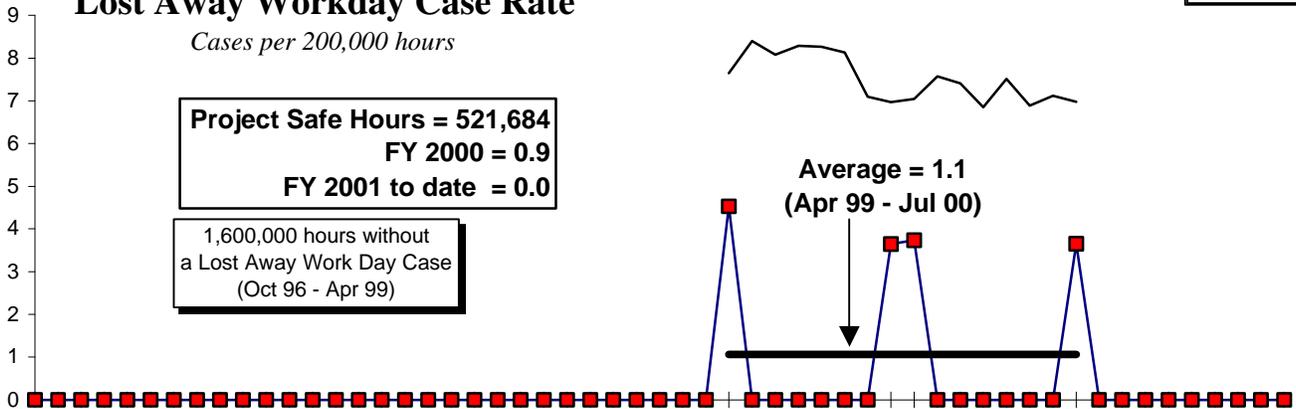
Green

Lost Away Workday Case Rate

Cases per 200,000 hours

Project Safe Hours = 521,684
FY 2000 = 0.9
FY 2001 to date = 0.0

1,600,000 hours without
a Lost Away Work Day Case
(Oct 96 - Apr 99)

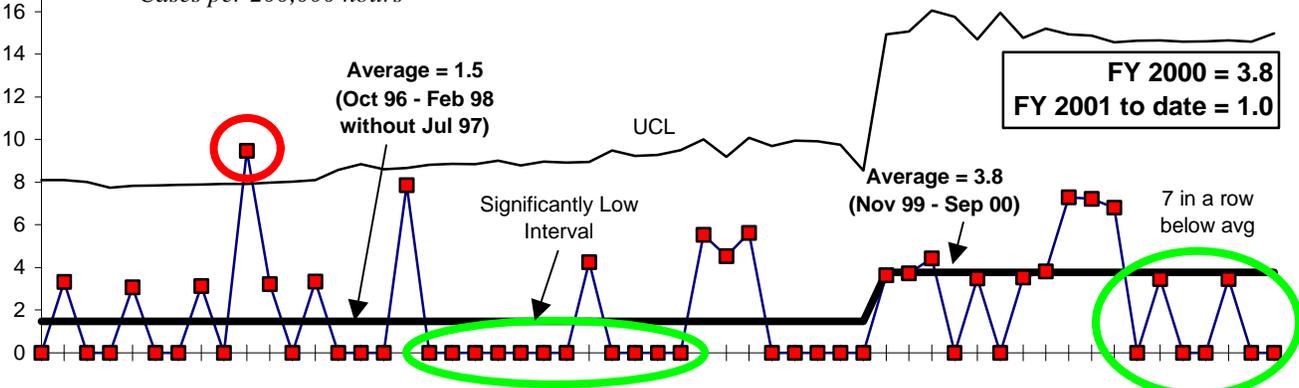


Green

OSHA Recordable Case Rate

Cases per 200,000 hours

FY 2000 = 3.8
FY 2001 to date = 1.0

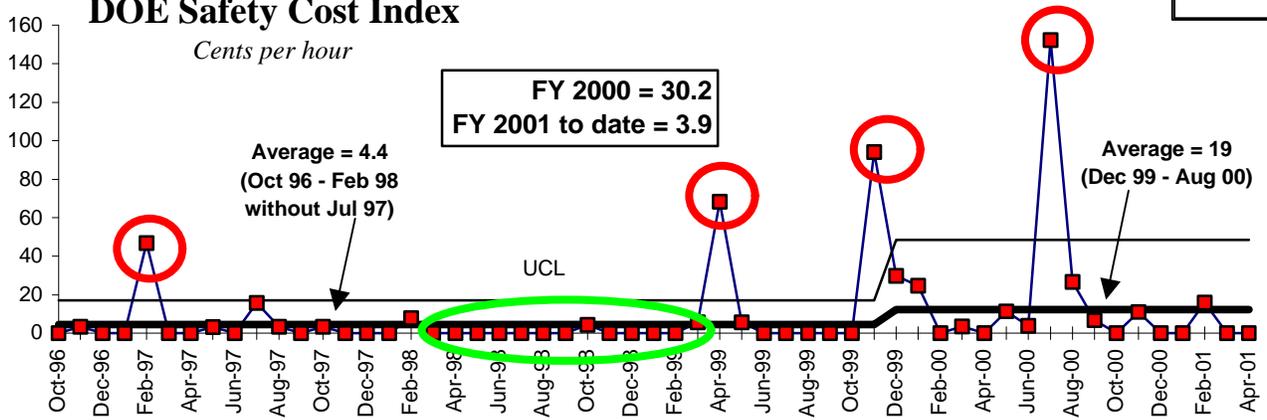


Yellow

DOE Safety Cost Index

Cents per hour

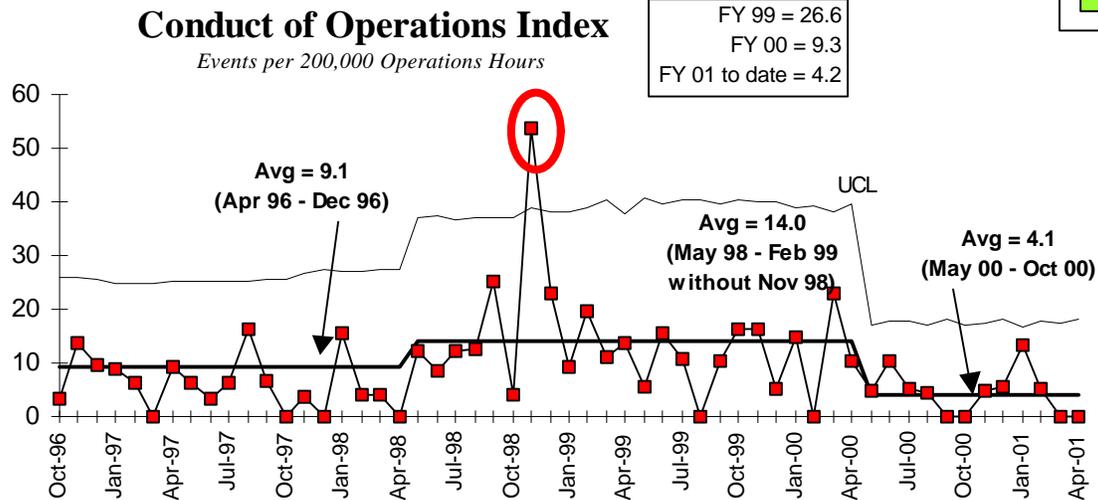
FY 2000 = 30.2
FY 2001 to date = 3.9



ISMS STATUS

Analytical Services ISMS status is included in the Waste Management Project Section of this report.

CONDUCT OF OPERATIONS



BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT

Nothing to report at this time.

UPCOMING ACTIVITIES

WIPP Waste Shipments - Continue to support the production goal of headspace analysis in support of waste shipments to Waste Isolation Pilot Plant (WIPP).

ORP Waste Treatment Plant (WTP) - Support RL and Office of River Protection (ORP) efforts to evaluate options for long-term high-activity laboratory support to the Site cleanup mission (i.e. 222-S, WTP laboratory, a new laboratory, etc.).

Ecology Inspection of Collodion Recovery Actions - Support RL to assess impacts and respond to the Ecology close-out letter, which documents potential violations and concerns from the Ecology inspection at WSCF and 222-S. WSCF began actions to inventory chemicals and further address corrective actions from the collodion Notice of Correction issued by Ecology. The 222-S Laboratory is proceeding on inventorying chemicals and designating standards/reagents as part of the corrective measures required by the Notice of Correction.

222-S RCRA Part B Application - Ecology formally told RL and FH that the public hearing period for Modification F to the Hanford Site RCRA Permit (which includes the 222-S Laboratory Part B) has been placed on hold. Public hearings will be held when the discrepancy between the DST Part B and the 222-S Part B with regard to the acceptance of off-site waste are resolved.

MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2001
	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
FO	0	0	0	0	0	0	0	0
RL	0	0	0	0	0	1	0	1
Total Project	0	0	0	0	0	1	0	1

Only TPA/EA milestones and all FY2001 overdue and forecast late milestones are addressed in this report. Milestones overdue are deleted from the Milestone Exception Report once they are completed. The following chart summarizes the FY2001 TPA/EA milestone achievement and a Milestone Exception Report follows.

Tri-Party Agreement / EA Milestones
Nothing to report at this time.
DNFSB Commitments
Nothing to report at this time.

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

Green

Laboratory Production

The analytical laboratories are performing key support to site cleanup milestones. Year to date, the laboratories have completed 9 of 12 high level waste tank grab samples, 5 of 6 high level waste tank vapor samples, and 90% complete on the first of two scheduled high level waste tank core sample reports required to meet CHG performance incentives. The remaining work will be completed on schedule, with the core sample work most critical to enable timely completion of the required characterization reports by CHG. New critical work has also been accepted from CHG relating to the tank corrosion issue, and particle size analysis for feed delivery to the waste treatment plant. In addition, the laboratories provided timely support to the recently completed 242A evaporator campaign, and are supporting BHI work on the critical Hexone tank.

FY 2001 SCHEDULE /COST PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)

Green

By PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC
WBS 1.2.4	Analytical	\$ 18,317	\$ 17,928	\$ 17,366	\$ (389)	-2%	\$ 562	3%	\$ 32,452	\$ 32,204
PBS WM06	Services									
Total		\$ 18,317	\$ 17,928	\$ 17,366	\$ (389)	-2%	\$ 562	3%	\$ 32,452	\$ 32,204

Note: RL-Directed costs (steam and laundry) are included.

FY TO DATE SCHEDULE / COST PERFORMANCE

The \$0.4 million (2 percent) unfavorable schedule variance is due to the 222-S HEPA filters and the WSCF HVAC installation delays. Facility shutdown will be necessary for the 222-S HEPA filter installation. Due to higher plant priorities, the 222-S laboratory shutdown is scheduled for later in FY 2001. The WSCF laboratory HVAC installation was completed in May.

The \$0.6 million (3 percent) favorable cost variance is due to costing delays, lagging contract costs, delays in billings of assessments and staff vacancies.

For all active sub-PBSs and TTPs associated with the Operations/Field Office, Fiscal Year to Date (FYTD) Cost and Schedule variances exceeding + / - 10 percent or one million dollars require submission of narratives to explain the variance.

Schedule Variance Analysis: (-\$0.4M)

Analytical Services — 1.2.4/WM06

Description and Cause: The \$0.4 million (2 percent) unfavorable schedule variance is due to the 222-S HEPA filters and the WSCF HVAC installation delays.

Impact: None.

Corrective Action: The 222-S HEPA filter installation is scheduled for later in FY 2001 and the WSCF HVAC installation was completed in May.

Cost Variance Analysis: (+\$0.6M)

Analytical Services — 1.2.4/WM06

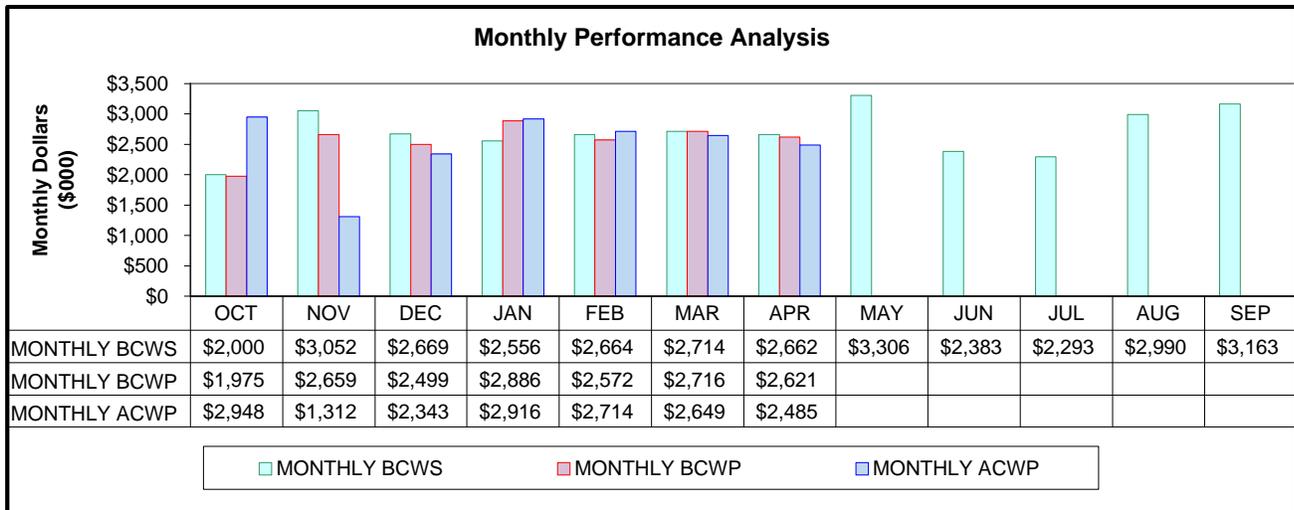
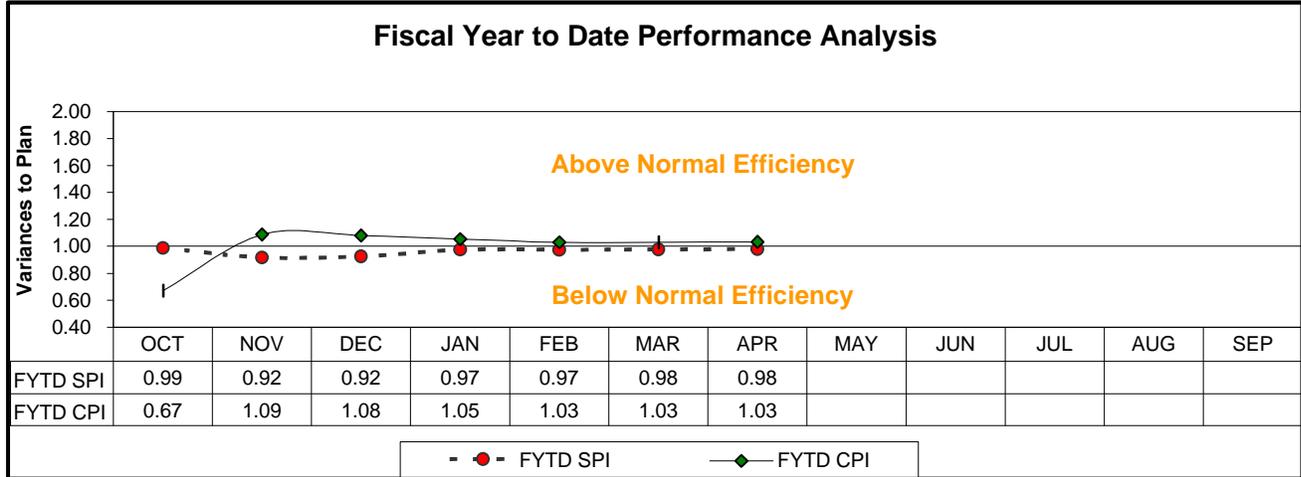
Description and Cause: The \$0.6 million (3 percent) favorable cost variance is due to costing delays, lagging contract costs, delays in billings of assessments and staff vacancies.

Impact: None.

Corrective Action: None required.

SCHEDULE / COST PERFORMANCE (MONTHLY AND FYTD)

Green



FUNDS MANAGEMENT — FY 2001 TO DATE FUNDS VS SPENDING FORECAST (\$000)

	Project Completion *			Post 2006 *			Line Items *		
	Funds	FYSF	Variance	Funds	FYSF	Variance	Funds	FYSF	Variance
The Plateau									
1.2.4 Analytical Svcs (222-S,HASP,WSCF)				\$ 31,175	\$ 31,154	\$ 21			
WM06									
Line Item									
Total Analytical Serv. Operating				\$ 31,175	\$ 31,154	\$ 21			
Total Analytical Serv. Line Item									

* Control Point

ISSUES

Regulatory Issue

Ecology Inspection of Collodion Recovery Actions — The Notice of Correction was received which defined three violations and three concerns. Ecology has levied a fine of \$57.8K.

Impacts: Impacts are being evaluated.

Corrective Action: DOE has submitted a request for relief from the penalty. FH agreed to implement the actions specified by Ecology, including an inventory of chemicals, standards and reagents.

External Issue

Support to CHG - CHG has expressed concern that the laboratories can meet all the scheduled needs in light of FH budget and personnel cuts and the potential for more cuts in FY 2002, and is also concerned about staying within cost and schedule thresholds associated with their performance incentives. In addition, 222-S workload in support of ORP has increased substantially since the beginning of FY 2001.

Impacts: CHG completion of performance initiative work is at risk.

Corrective Actions: Starting in April, CHG assigned a single point of contact for prioritizing CHG work in the laboratories. Analyses and meetings are taking place to discuss schedules and priorities. Sample acquisition in the field is currently impacted by industrial safety issues and the changing work schedule is being discussed weekly. FH has assigned additional resources to 222-S to manage the sample flow, and CHG has loaned a 222-S experienced staff member to assist in coordinating incoming work and its changing schedule. Staffs have been shifted from WSCF to support CHG work. These actions address the concerns identified by CHG. Current analysis indicates that with careful control, the cost thresholds will be met.

DOE Issue

Analytical Services Funding - Potential FY 2002 budget cuts would add an additional year delay to required instrumentation replacement and upgrade at the 222-S and WSCF laboratories.

Impacts: Unplanned failure of analytical instrumentation or facility equipment will impact services provided by the laboratory to Hanford Site customers.

Corrective Actions: New funding for infrastructure restoration needs to be pursued at the DOE-HQ level.

Technical Issues and DOE Requests

Issues: None identified at this time.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

PROJECT CHANGE NUMBER	DATE ORIGIN.	BCR TITLE	COST IMPACT \$000	S C H	T E C H	DATE TO CCB	CCB APR'VD	RL APR'VD	CURRENT STATUS
WM-2001-019	3/22/2001	10 CFR 830 Implementation, Phase 1	40		X	5/2/2001	5/2/2001		Pending RL Approval
WM-2001-022	4/19/2001	\$700K RL-SMB Reduction	-700		X	5/7/2001	5/7/2001		Pending RL Approval
WM-2001-025	5/2/2001	Unassigned Waste Sites	3		X	5/7/2001	5/7/2001		Pending RL Approval
WM-2001-026	5/3/2001	Colloidal Recovery Actions	60		X	5/7/2001	5/17/2001		Pending RL Approval
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report at this time.							

KEY INTEGRATION ACTIVITIES

- Continue to support DOE-RL and ORP efforts to establish required analytical support for Waste Treatment Plant (WTP) design and operation.
- Continue to support Waste Management headspace gas analyses for transuranic (TRU) waste shipment to WIPP.
- Support CHG high-level waste tank vapor analysis and feed to glass plant characterization.