

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.

DOE Richland Operations Manager Keith Klein toured the Waste Sampling and Characterization Facility (WSCF) and the 222-S Laboratory. At WSCF, Klein recognized the facility's six years without a lost day of work due to injury, since opening in October 1993.

Preparations were conducted for headspace gas sampling and analysis of 5 TRU waste containers planned for early January 2000. A case narrative was built to validate the adequacy of the previously analyzed 107 drums. The data report will support the January 24, 2000 Carlsbad Area Office audit of Hanford's TRU Program WIPP certification. Technical issues related to Field Reference Standard Certification of Summa Canister Assemblies (SCA) have been successfully resolved.

Facility Evaluation Board (FEB) records and data were gathered in preparation for the FEB assessment January 17-28, 2000. The requested documentation will be delivered to FEB on January 4, 2000. A new process in providing documentation is being "piloted" with FEB concurrence. In addition to hard copy documentation, an electronic table with hyperlinks to all information that is electronically available will be provided to the FEB. This will not only eliminate a large amount of copying, but also provide ease of access from any FEB workstation.

Milestone performance (EA, DOE-HQ and RL) shows no milestones are due this reporting period.

ACCOMPLISHMENTS

- Performed 1.2 Analytical Equivalency Units (AEU) (FYTD) through December 1999 at the 222-S Laboratory in support of the RPP (TWRS) tank characterization program as planned. Completed final analytical reports on RPP Tanks S-111 (grab), AP-103 (grab) and TX-113 (core) as planned.
- Performed 2,700 analyses (FYTD) through December 1999 at WSCF for a wide variety of customers as planned.
- The 222-S Laboratory successfully completed the EPA/ERA Water Pollution (WP) Performance Evaluation (PE) samples and received a perfect score of 100%, with all thirty-five parameters within EPA/ERA established criteria.
- AS is actively participating in DOE's National Analytical Manager Program (NAMP) to develop a complex-wide auditing program for analytical laboratory services.

- Visual checks of stacks at the 222-S Laboratory Complex and the WSCF were performed to detect evidence of cracking or other signs of structural problems. The State of Washington Department of Health (DOH) required these visual checks of site stacks as a result of the discovery of cracks in the B Plant Canyon exhaust ductwork. The visual check revealed problems with the 222-S main stack ductwork.
- The reissued WMP/ASP ISMS Program Plan was approved and issued, which supports plans to declare readiness for ISMS verification by April 28, 2000.

COST PERFORMANCE (\$M):

| | BCWP | ACWP | VARIANCE |
|----------------------------|-------------|-------------|-----------------|
| Analytical Services | \$5.8 | \$6.4 | - \$0.6 |

The \$0.6 million (10.3 percent) unfavorable cost variance is primarily due to the approved initiation of the FY 1999 carryover work scope, and the incremental cost of 222-S Laboratory tank 104 polychlorinated biphenyl recovery activities. Further information at the PBS level can be found in the following Cost Variance Analysis details.

SCHEDULE PERFORMANCE (\$M):

| | BCWP | BCWS | VARIANCE |
|----------------------------|-------------|-------------|-----------------|
| Analytical Services | \$5.8 | \$5.9 | - \$0.1 |

The \$0.1 million (1.7 percent) unfavorable schedule variance is within established threshold.

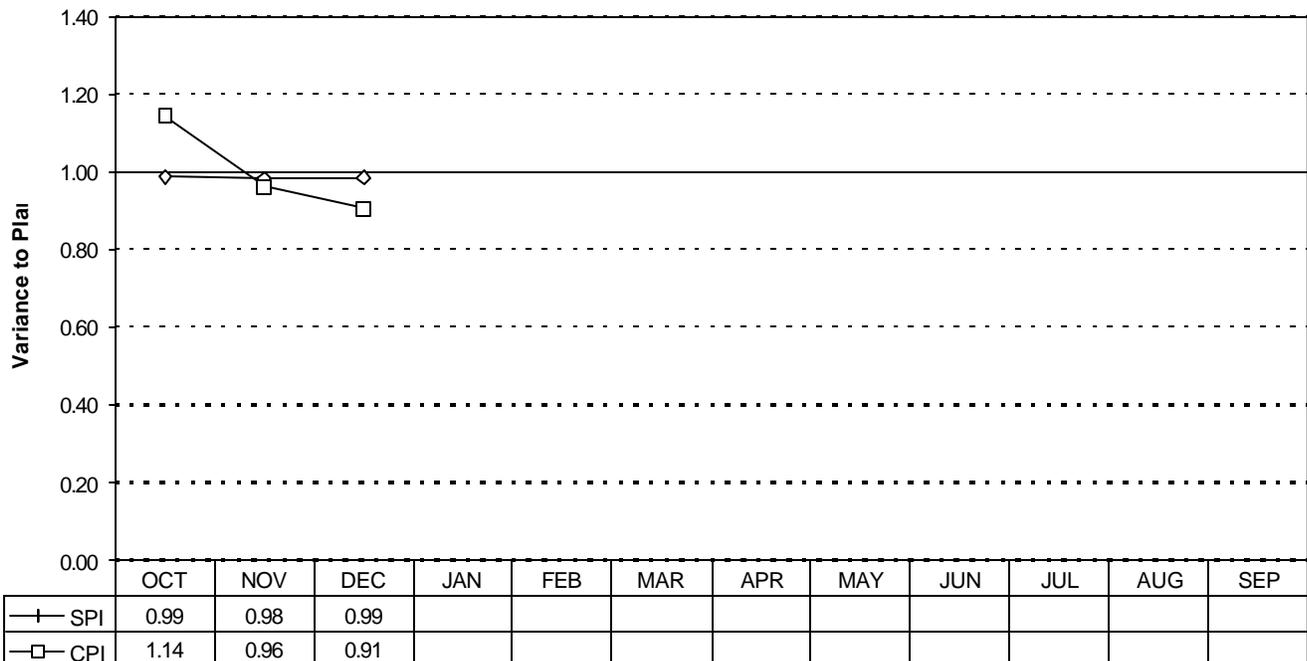
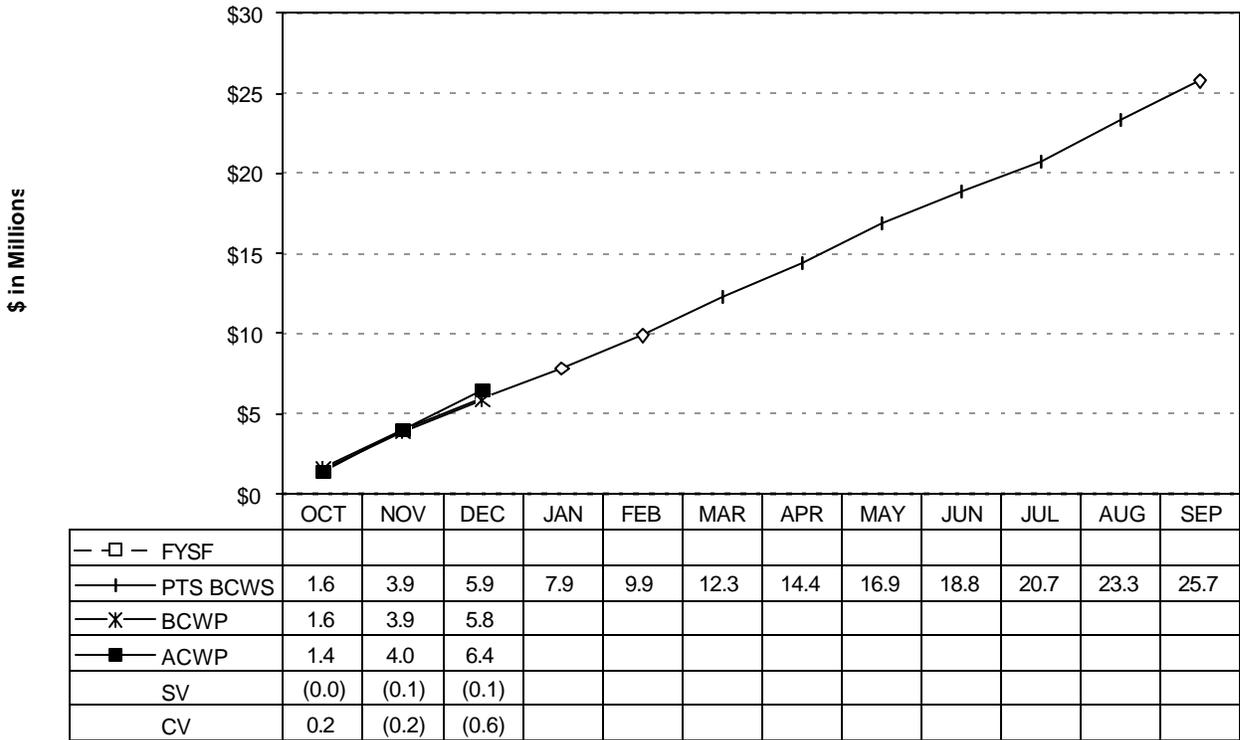
ISSUES

The WSCF laboratory self-identified an analytical procedure where acid digestion of certain liquid samples was not conducted per permit-mandated protocol.

Strategy/Status: The procedure was revised and reanalysis completed for 200 and 300 Area customers. Analysis of historical analytical data for RCRA samples shows that approximately 80% were digested (microwave, closed vessel) prior to analysis. A draft "white paper" describing the comparison of digested vs. undigested water samples analyzed by ICP-MS has been completed and will be issued the first week in January. The white paper will included a section on "lessons learned".

ANALYTICAL SERVICES WBS 1.2.4

FY 2000 COST/SCHEDULE PERFORMANCE - ALL FUND TYPES Cumulative to Date Status



ANALYTICAL SERVICES WBS 1.2.4

| | | FYTD | | | | | AUTH | PTS |
|------|---------|------------|------------|------------|------------|------------|------------|------------|
| | | BCWS | BCWP | ACWP | SV | CV | BSLN | BCWS |
| PBS | | | | | | | | |
| WM06 | Expense | 5.8 | 5.8 | 6.3 | (0.0) | (0.6) | 25.6 | 25.3 |
| | CENRTC | 0.1 | 0.0 | 0.1 | (0.1) | (0.0) | 0.0 | 0.5 |
| | GPP/LI | <u>0.0</u> |
| | Total | 5.9 | 5.8 | 6.4 | (0.1) | (0.6) | 25.6 | 25.7 |

\$ In Millions

COST VARIANCE ANALYSIS: (-\$0.6M)

WBS/PBS

Title

1.2.4/WM06

Analytical Services

Description/Cause: The unfavorable cost variance is primarily due to the approved initiation of the FY 1999 carryover work scope, and the incremental cost of 222-S Laboratory tank 104 polychlorinated biphenyl recovery activities. Also contributing to the overrun are increased costs for development and implementation of chemical technologist training, health physics support to operations, and Integrated Environmental Safety and Health Management System (ISMS) implementation.

Impact: Current spending forecasts indicate a potential yearend overrun in this PBS.

Corrective Action: The FY 1999 carryover baseline change request is expected to be approved and implemented in January which will partially negate the overrun position. The forecasted spending projection will continue to be monitored and appropriate corrective actions identified and implemented to alleviate projected yearend overruns.

SCHEDULE VARIANCE ANALYSIS: (-\$0.1)

1.2.4/WM06

Analytical Services

Description /Cause: The unfavorable schedule variance of \$0.1M (1.5 percent) is within established threshold.

Impact: None

Corrective Action: None required.

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 |
| FO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RI | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Total Project | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

MILESTONE EXCEPTION REPORT

| <u>Number/WBS</u> | <u>Level</u> | <u>Milestone Title</u> | <u>Baseline Date</u> | <u>Forecast Date</u> |
|-------------------|--------------|------------------------|----------------------|----------------------|
|-------------------|--------------|------------------------|----------------------|----------------------|

OVERDUE – 0

FORECAST LATE – 0