

Soil and Water Remediation, Groundwater/Vadose Zone (RL-0030)

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Mike Thompson "powers down" the NR-2 Pump and Treat System

Overview

This section addresses Project Baseline Summary (PBS) RL-0030, *Soil and Water Remediation Groundwater/Vadose Zone*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of February 2006.

Notable Accomplishments

Well Drilling: To date, eight Calendar Year (CY) 2006 wells are complete, as are two CY 2007 wells. Eight Tri-Party Agreement (TPA) wells are in progress. Non-TPA drilling activities made significant progress. A network of twelve wells was initiated to form the injection points for the apatite barrier that will be installed later this year in 100-N Area. Setup began for drilling four wells to support uranium cleanup in the 300 Area just north of Richland.

Cleaning up Chromium Along the River: Fluor Hanford (FH) briefed RL and the Environmental Protection Agency (EPA) on the pump and treat system that will be installed this year to remove chromium from groundwater that has reached the river near the K West reactor. The focus of the first phase of the cleanup will be on the concentrated portion of the plume. The project has been coordinating the design effort with the K West Basin Project as well as the Washington Closure Project. The extraction and injection wells were staked on March 2, 2006. The startup of the treatment system is expected no later than December 2006. In the 100-H Area, chromium concentrations continue to decline in the extraction/compliance wells. All of these wells are below 20 parts per billion (ppb) with the exception of three (the cleanup goal is 22 ppb). The concentrations in these three wells are between 20 and 30 ppb. Recent flattening of the concentration trends may indicate that chromium from deeper in the system is leaking upward towards the pumping wells and this will be evaluated over the coming months.

Removing Uranium and Technetium-99 Contamination in the Central Plateau: At the end of January 2006, Fluor completed a study that demonstrated that uranium and technetium-99 concentrations stayed below the interim remedial action levels that had been met one year earlier. During the study, the pump-and-treat system was completely shut down. These results were discussed with RL and the Washington State Department of Ecology (Ecology). Since this treatment process has proven to be successful, Ecology has requested that DOE/FH prepare an evaluation of continuing the treatment to achieve lower cleanup levels. This evaluation is due March 31, 2006.

FY 2006 Funds vs. Spend Forecast (\$M)

	Projected FY 2006 Funding	FY 2006 Fiscal Year Spend Forecast	Variance
Soil & Water Remediation, Groundwater/Vadose Zone	\$ 48.1	\$ 48.7	\$ -0.7

FY 2006 Schedule/Cost Performance (\$M)

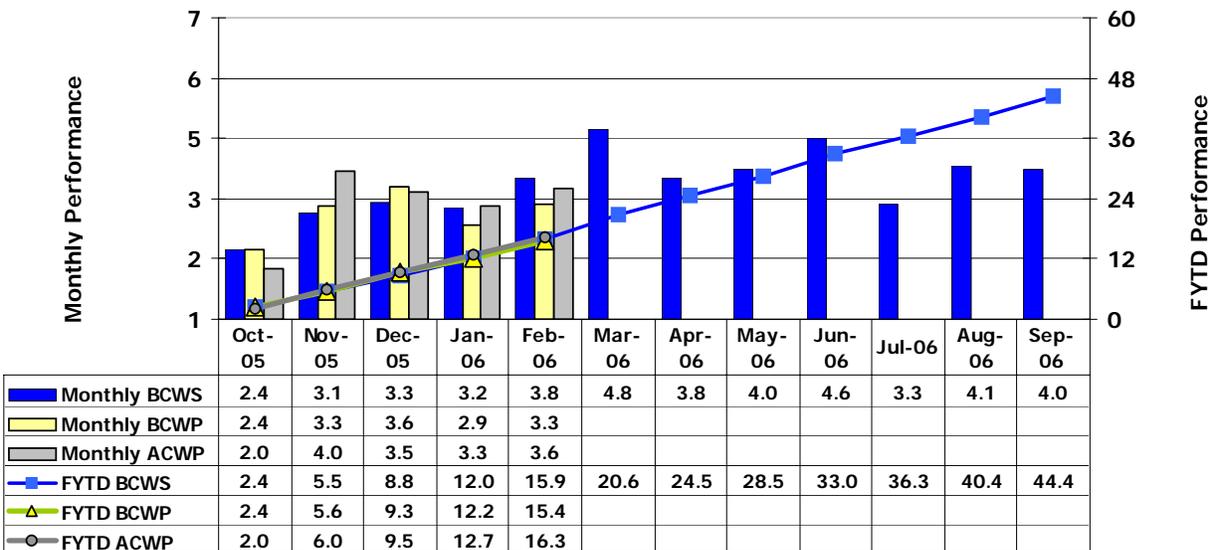
	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
Soil & Water Remediation, Groundwater/Vadose Zone	\$15.9	\$15.4	\$16.3	-\$0.4	-2.7%	-\$0.9	-5.8%	\$44.4

Numbers are rounded to the nearest \$0.1M and include the Closure Services allocation.

Schedule Performance (-\$0.4M/-2.7%). Variance within threshold; no explanation required.

Cost Performance (-\$0.9M/-5.8%). Variance within threshold; no explanation required.

Performance Analysis FYTD and Monthly (\$M)



Milestone Achievement

PBS	MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status / Comments
RL-0030	M-24-57G	Install a Cumulative of 45 Wells by December 31, 2005	RL	12/31/05	08/16/05		COMPLETE
RL-0030	M-24-57J	Install a Cumulative of 60 Wells by December 31, 2006	RL	12/31/06		07/31/06	
RL-0030	M-15-48A	Submit Draft A 200-ZP-1 CERCLA Remedial Investigation Report to EPA	RL	05/31/06		05/31/06	