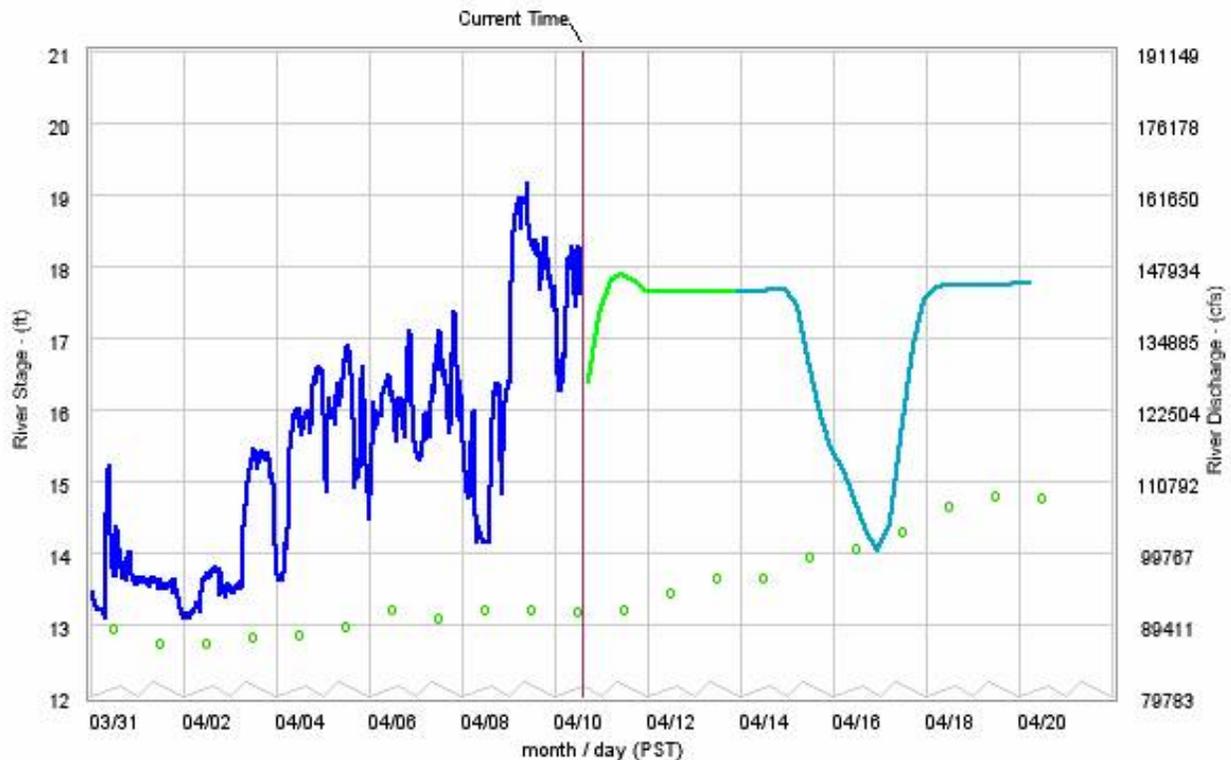


Soil and Water Remediation, Groundwater/Vadose Zone (RL-0030)

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Water Remediation/Groundwater Vadose Zone
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COLUMBIA -- BELOW PRIEST RAPIDS DAM (PRDW1)



Latest: 17.64 ft 143135 cfs (36% of flood flow) [04/10 13:45]

Daily statistics: v - Minimum, o - Mean, ^ - Maximum (USGS data)

Observed — Forecast — Trend — Flood Level —

Fcst created: 2006Apr10 12:43 PDT
Plot created: 2006Apr10 14:33 PDT
Northwest River Forecast Center

Columbia River Stage Forecast

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 March 2006.

Notable Accomplishments

Well Drilling: To date, nine Calendar Year (CY) 2006 wells and two CY 2007 wells are complete. Ten Tri-Party Agreement (TPA) wells are in progress. Five wells are in planning for late spring/summer drilling that will be used to understand contamination beneath the 200 West Area. Non-TPA drilling activities made significant progress. A network of twelve wells was completed to form the injection points for the apatite barrier that will be installed later this year right next to the Columbia River in 100-N Area. Fifteen direct-push boreholes are being planned for uranium treatment tests in the 300 Area just north of Richland. Lastly, four wells are planned for use in a new pump-and-treat system for chromium that has recently reached the Columbia River in the 100-K Area.

Cleaning up Chromium Along the River: In the 100-H Area, chromium concentrations continue to decline in the extraction/compliance wells. All of these wells except two are below the cleanup goal of 20 parts per billion (ppb). The concentrations in the two exception wells are generally close to 25 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. Once the cleanup goal has been achieved, the pump-and-treat system operations will be modified to allow monitoring of the cleanup action. In a separate action, a report was released on the results of the treatability test that was conducted in the 100-K Area last year using a compound (calcium polysulfide) that reduces chromium from a toxic to a nontoxic form in groundwater. The test was a success and recommendations were provided for scaling up the treatment as well as precautions for impacts that must be mitigated in the groundwater chemistry.

New Funding to Aggressively Address Contamination in Groundwater: The Groundwater Remediation Project assisted the EM-21 Peer Review Committee during their review of proposals in Salt Lake City, March 29-30, 2006. Not all proposals (which totaled \$9.5M) were reviewed; however, the preliminary recommendations from the committee were to:

- Move forward with iron augmentation of ISRM barrier in the 100-D Area to treat chromium,
- Fund the effort to test the electro-coagulation process for treating chromium in the 100-D Area,
- Conditionally approve a larger scale application of the calcium polysulfide technology in the 100-D area for chromium pending a more technically rigorous comparison/contrast with other technologies (e.g., bioremediation, pump and treat), and
- Not fund the use of geophysical techniques to detect chromium in 100 Area soils.

Decommissioning Old, Unused Wells: A contract was awarded in March to decommission sixty-four wells using mechanical casing perforation techniques. Work is planned to start-up the second week in April, and complete by the end of June.

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	\$ 48.6	\$ -0.6

FY 2006 Schedule/Cost Performance (\$M)

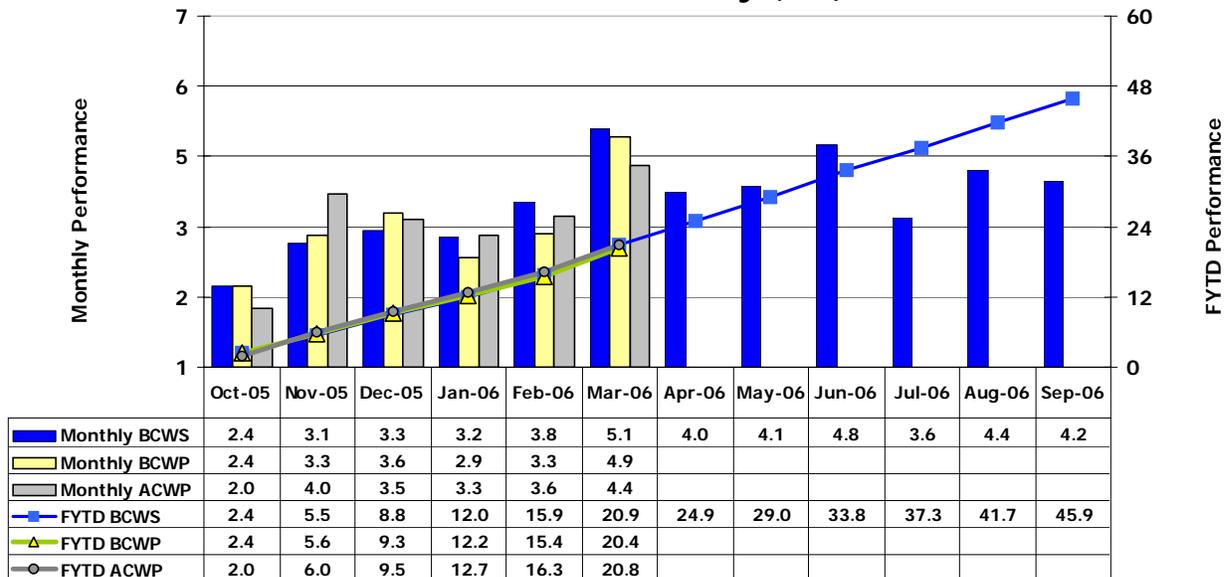
	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
Soil & Water Remediation, Groundwater/Vadose Zone	\$20.9	\$20.4	\$20.8	-\$0.6	-2.7%	-\$0.4	-2.0%	\$45.9

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

Schedule Performance (-\$0.6M/-2.7%). Variance within threshold; no explanation required.

Cost Performance (-\$0.4M/-2.0%). 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	