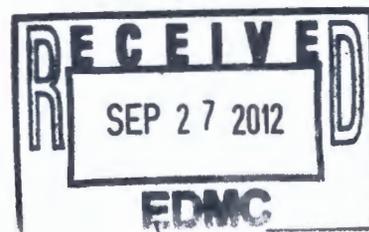


FINAL

Office of River Protection
Consent Decree 08-5085-FVS
Monthly Summary Report
September 2012



Office of River Protection

Consent Decree 08-5085-FVS
Monthly Summary Report
September 2012

Page	Topic	Leads
3	Statistics / Status	James Lynch / Dan McDonald / Jeff Lyon
5	SST Retrieval and Closure - D-00B-01, -02, -03, -04	Chris Kemp / Jeff Lyon
7	Tank Waste Retrieval Work Plan (TWRWP) Status - Consent Decree Appendix C	Chris Kemp / Jeff Lyon
8	SST Retrieval Monthly and Fiscal Year EVMS Data	Dan Knight / Jeff Lyon
9	WTP - Immobilization Plant Project - D-00A-06, D-00A-17, D-00A-01	Delmar Noyes / Dan McDonald
11	WTP Pretreatment (PT) Facility - D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald
14	High-Level Waste (HLW) Facility - D-00A-20, -21, 02, 03	Wahed Abdul / Dan McDonald
16	Low-Activity Waste (LAW) Facility - D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald
19	Balance of Facilities (BOF) - D-00A-12	Jason Young / Dan McDonald
21	Analytical Laboratory (LAB) - D-00A-005	

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2012				
D-00C-02L	Submit to Ecology and Oregon Monthly Summary Reports	10/31/11	10/25/11	Completed
D-00C-02M	Submit to Ecology and Oregon Monthly Summary Reports	11/30/11	11/21/11	Completed
D-00C-02N	Submit to Ecology and Oregon Monthly Summary Reports	12/31/11	12/27/11	Completed
D-00C-02O	Submit to Ecology and Oregon Monthly Summary Reports	01/31/12	01/25/12	Completed
D-00C-01D	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/12	01/27/12	Completed
D-00C-02P	Submit to Ecology and Oregon Monthly Summary Reports	02/29/12	02/22/12	Completed
D-00C-02Q	Submit to Ecology and Oregon Monthly Summary Reports	03/31/12	03/31/12	Completed
D-00C-02R	Submit to Ecology and Oregon Monthly Summary Reports	04/30/12	04/26/12	Completed
D-00C-02S	Submit to Ecology and Oregon Monthly Summary Reports	05/31/12	05/29/12	Completed
D-00C-02T	Submit to Ecology and Oregon Monthly Summary Reports	06/30/12	06/29/12	Completed
D-00C-02U	Submit to Ecology and Oregon Monthly Summary Reports	07/31/12	07/26/12	Completed
D-00C-01E	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/12	07/27/12	Completed
D-00C-02V	Submit to Ecology and Oregon Monthly Summary Reports	08/31/12	08/22/12	Completed
D-00C-02W	Submit to Ecology and Oregon Monthly Summary Reports	09/30/12		On-going
Fiscal Year 2013				
D-00C-02X	Submit to Ecology & State of Oregon Monthly Summary Report	10/31/2012		On-going
**D-00C-02Y	Submit to Ecology & State of Oregon Monthly Summary Report	11/30/2012		On-going
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.				
D-00A-05	LAB Construction Substantially Complete	12/31/2012		On-going
D-00A-12	Steam Plant Construction Complete	12/31/2012		On-going
D-00A-21	Complete Construction of Structural Steel to EL. 37' in HLW Fac.	12/31/2012		On-going

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2013 Continued				
D-00C-01F	Submit to Ecology & State of Oregon Semi-Annual Report	01/31/2013		On-going
D-00C-01G	Submit to Ecology & State of Oregon Semi-Annual Report	07/31/2013		On-going
D-006-00-A1	Provide State of Oregon Notice of Meetings	09/25/2013		On-going

Reports

D-00C-01 series, Submit to Ecology & State of Oregon Semi-Annual Report, Due: Semi-Annually – January 31st and July 31st of each year. Status: On-going

D-00C-02 series, Submit to Ecology & State of Oregon Monthly Summary Report Documenting Progress During Previous Month, Due: End of Each Month, Status: On-going

D-006-00-A1, Provide State of Oregon notice of meetings in D-006-00-A, etc. no less than 30 days before they are scheduled, Due: 9/25/2013, Status: On-going

D-006-00-A, Meet Approximately Every Three Years After Entry of Decree to review requirements of the Consent Decree, Due: 10/25/2013, Status: On-going

SST Retrieval Program

D-00B-01, Complete Retrieval of Tank Wastes from 10 Remaining SSTs in WMA-C, Due: 9/30/2014, Status: On-going

D-00B-01A thru J, Submit Tank Retrieval Complete Certification, Due: TBD

Pursuant to the requirement in Section IV-B-5 of the Consent Decree (CD) DOE must submit to Ecology a written certification that DOE has completed retrieval of a tank in accordance with the requirements of Appendix "C", Part 1, of the CD. Tanks currently in retrieval status are C-107, C-109, C-110, C-111, and C-112.

D-00B-02, Advise Ecology of the 9 SSTs from which Waste Will Be Retrieved by 2022, Due: 9/30/2014, Status: Complete. ORP and Ecology began meeting in December 2010 to discuss the selection of the next nine tanks from which waste will be retrieved and why ORP believes those nine tanks should be in A/AX Farms. The last meeting was held on August 24, 2011. At this meeting, Ecology stated that it believes the requirements of D-00B-02 of the Consent Decree have been met.

D-00B-03, Initiate Startup Retrieval in At Least 5 of 9 SSTs in D-00B-02, Due: 12/31/2017, Status: On-going

D-00B-04, Complete Retrieval of Tank Wastes from the 9 SSTs in D-00B-02, Due: 9/30/2022, Status: On-going

D-00B-04A thru I, Submit Tank Retrieval Complete Certification, Due: TBD

Significant Past Accomplishments:

1. Continued procurement for C-101 and C-102 modified sluicing retrieval systems.
2. Continued removal of legacy (long length) equipment in C-102.
3. Initiated installation of the Modified Sluicing retrieval equipment including, slurry pumps and Extended Reach Sluicing Systems (ERSS) at both C-101 and C-102.
4. Completed hard heel retrieval of C-104.
5. Continued construction activities for removal of equipment at C-105 to support large riser installation.
6. Completed modifying ventilation system to add C-105 to the new exhaust system installed for C-102.
7. Completed bulk retrieval of C-107 utilizing the MARS system.
8. Initiated hard heel retrieval of C-107 by utilizing the high pressure water spray nozzles of the MARS System.
9. Continued hard heel retrieval at C-109 by addition of caustic for the dissolution of solids and recirculation of this caustic.
10. Completed removal of expired HIHTLs between AN06A pit and POR104 valve box.
11. Initiated installation of new HIHTLs between AN06A pit and POR014 valve box.

Significant Planned Activities in the Next Six Months:

1. Complete construction/installation of the modified sluicing system in C-101.
2. Complete removal of legacy equipment at C-102.
3. Complete construction/installation of the modified sluicing system in C-102.
4. Complete removal of equipment/pit at C-105.
5. Complete installation of the large riser in C-105.
6. Complete C-107 hard heel retrieval.
7. Obtain C-108 Post-Retrieval samples using the Off Riser Sampling System.
8. Complete hard heel removal of waste at C-109.
9. Complete discussions with Ecology on the retrieval certificate of completion.

Issues:

None.

Tank Waste Retrieval Work Plan (TWRWP) Status

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520	Complete	MRS (per 10/7/10 agreement, to be Modified Sluicing)	Chemical Dissolution	-
C-102	RPP-22393	Complete	Modified Sluicing	Chemical Dissolution	-
C-104	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-
C-105	RPP-22520	In Process	MARS-V	High pressure water spray/M A RS platform	-
C-107	RPP-22393	In Process	MARS-S	MARS-High Pressure	-
C-108	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-
C-109	RPP-21895	After evaluation of C-108 hard heel retrieval	Modified Sluicing	Chemical Dissolution	-
C-110	RPP-33116	After evaluation of C-108 hard heel retrieval	Modified Sluicing	None (to be revised to In-Tank Vehicle)	-
C-111	RPP-37739	After evaluation of C-108 hard heel retrieval	Modified Sluicing	None (to be revised to In-Tank Vehicle)	-
C-112	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-

Significant Accomplishments

None.

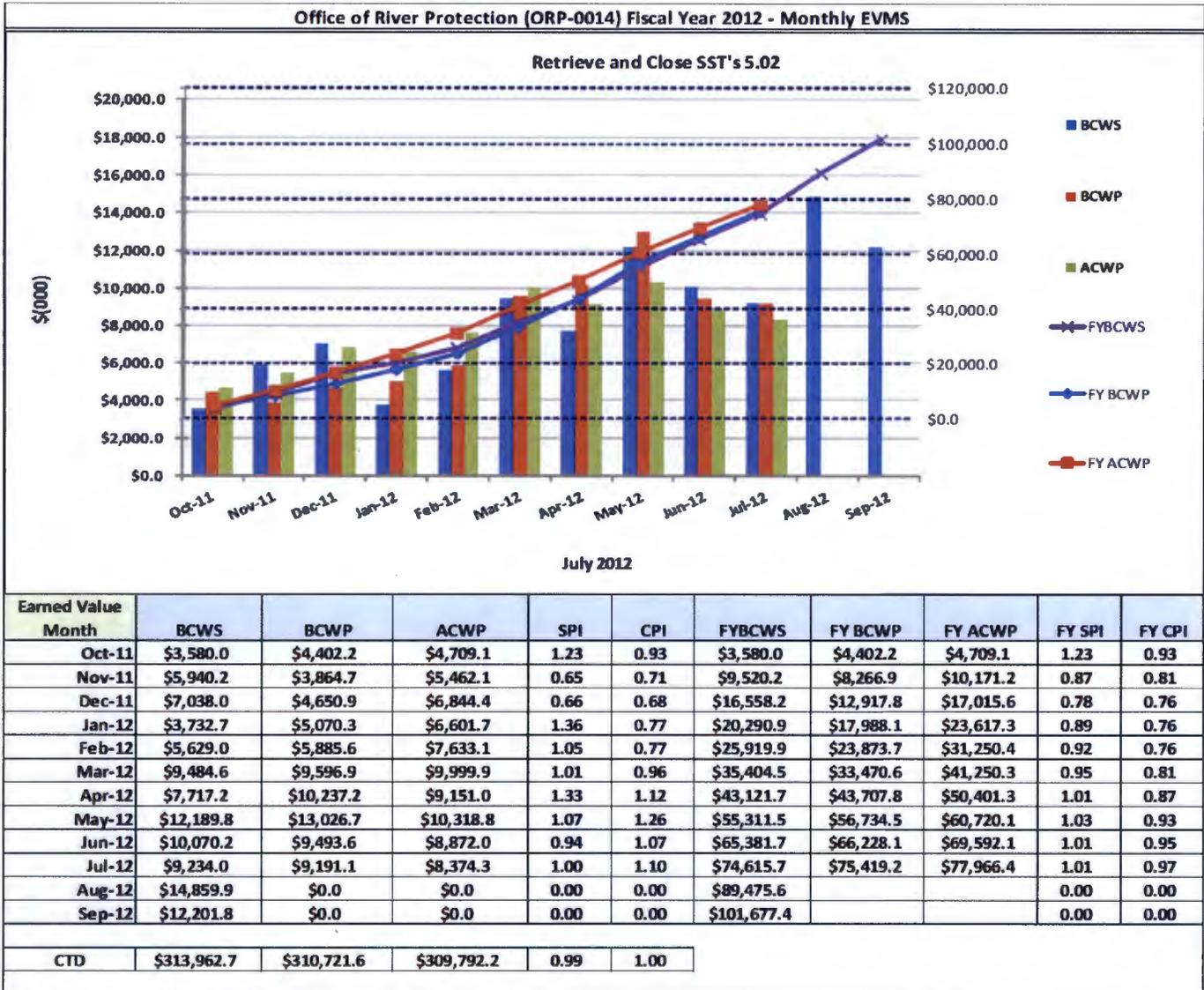
Significant Planned Activities in the Next 6 Months:

Work with Ecology on updates to TWRWPs RPP-22520, RPP-22393, and RPP-37739 for tanks C-101, C-102, and C-111, respectively.

Issues:

None.

SST Retrieval Monthly and Fiscal Year EVMS Data



Single-Shell Tanks

Cost Variance (\$816.8K):

The favorable cost variance is primarily due to:

- Efficiencies achieved in C-104 hard heel removal activities
- Efficiencies in material procurements and HIHTL installation
- C-102 containment boxes cost efficiencies in the procurement and system installation
- C-107 cost efficient retrieval operations using the new MARS

The favorable CV was partially offset by:

- Additional replacement pump testing and labor for pump removal at C-109

WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP) PROJECT

Number	Title	Due Date	Status
D-00A-06	Complete Methods Validations	12/31/2017	On-going* (see issues below)
D-00A-17	Hot Start of Waste Treatment Plant	12/31/2019	On-going* (see issues below)
D-00A-01	Achieve Initial Plant Operations for WTP	12/31/2022	On-going* (see issues below)

The WTP Project currently employs approximately 2,251 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 604 craft, 493 non-manual, and about 123 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of July 2012, the project was 66 percent complete overall, design and engineering was 86 percent complete, procurement was 71 percent complete, construction was 63 percent complete, and startup and commissioning was 16 percent complete.

The overall WTP Project schedule variance in July was a negative \$84 M; the cost variance was a negative \$48.2 M. The schedule variance was primarily related to Engineering Design, Plant Equipment, and Environmental & Nuclear Safety; and the cost variance was primarily related to Engineering Design, Construction Crafts, and Plant Equipment.

The following is the status of project issues through the end of July.

Significant Past Accomplishments:

- Completed the Hydrogen Generation Rate (HGR) calculations for HLP-17, HLP-12, HLP-09 and HFP-06 (PT)
- Completed installation of HDH-VSL-1 on trolley in canister rinse tunnel (HLW)
- Completed installation activities for sealing melter bay #3 floor openings leading to elevation -21' with steel plate shielding and framing structural steel in the fire riser room. (LAW)
- Completed 8 week walk down for WTP switchgear building 87 (BOF)
- Began installation of shower/eyewash stations throughout the facility (LAB)

Significant Planned Actions in the Next Six Months:

- Issue the final report documenting the results from the entrainment coefficient testing for the PVV system (PT)
- Complete 37' structural steel (HLW)
- Complete installation of melter power supplies (LAW)
- Complete installation of Auto Sampling (ASX system) (LAW)
- Complete construction of the cooling tower (BOF)
- Complete construction of the switchgear building (BOF)
- Complete mechanical installation of autosampling system (LAB)

Issues:

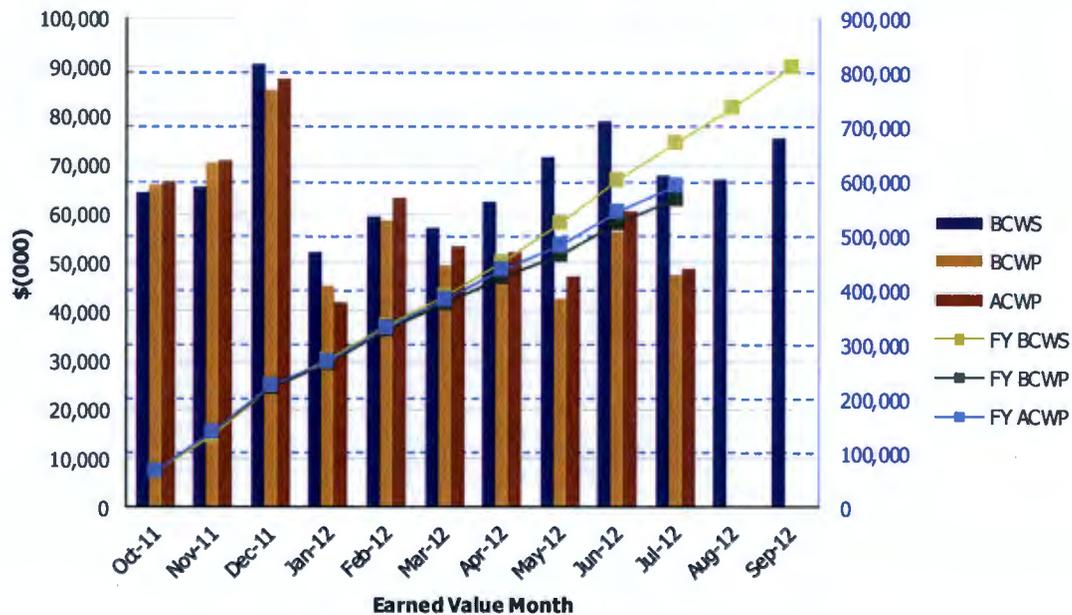
- Technical issues relevant to the PTF and HLW facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.
- There are no significant technical issues in LAW or BOF at this time.
- The LAB schedule was recently affected by an issue concerning valve internals. At this time, there is no impact to the Consent Decree milestone (D-00A-05) or contract milestone completion dates.

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

**River Protection Project
Waste Treatment Plant (WTP) Project**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$64,411	\$65,869	\$66,670	1.02	0.99	\$64,411	\$65,869	\$66,670	1.02	0.99
Nov 2011	\$65,647	\$70,625	\$70,879	1.08	1.00	\$130,058	\$136,494	\$137,549	1.05	0.99
Dec 2011	\$90,699	\$85,246	\$87,845	0.94	0.97	\$220,757	\$221,740	\$225,394	1.00	0.98
Jan 2012	\$52,248	\$45,149	\$41,816	0.86	1.08	\$273,005	\$266,889	\$267,210	0.98	1.00
Feb 2012	\$59,271	\$58,579	\$63,201	0.99	0.93	\$332,276	\$325,468	\$330,411	0.98	0.99
Mar 2012	\$57,285	\$49,398	\$53,161	0.86	0.93	\$389,561	\$374,866	\$383,572	0.96	0.98
Apr 2012	\$62,378	\$47,517	\$52,149	0.76	0.91	\$451,939	\$422,383	\$435,721	0.93	0.97
May 2012	\$71,778	\$42,759	\$47,365	0.60	0.90	\$523,717	\$465,142	\$483,086	0.89	0.96
Jun 2012	\$78,891	\$56,530	\$60,446	0.72	0.94	\$602,608	\$521,672	\$543,532	0.87	0.96
Jul 2012	\$67,735	\$47,504	\$48,727	0.70	0.97	\$670,343	\$569,176	\$592,259	0.85	0.96
Aug 2012	\$66,879			0.00		\$737,221			0.00	
Sep 2012	\$75,468			0.00		\$812,689			0.00	
PTD	\$7,134,090	\$7,050,131	\$7,098,284	0.99	0.99					

PRETREATMENT (PT) FACILITY

Number	Title	Due Date	Status
D-00A-19	Complete Elevation 98' Concrete Floor Slab in PT Facility	12/31/2014	On-going* (see issues below)
D-00A-13	Complete Installation of Pretreatment Feed Separation Vessels	12/31/2015	On-going* (see issues below)
D-00A-14	PT Facility Construction Substantially Complete	12/31/2017	On-going* (see issues below)
D-00A-15	Start PT Facility Cold Commissioning	12/31/2018	On-going* (see issues below)
D-00A-16	PT Facility Hot Commissioning Complete	12/31/2019	On-going* (see issues below)

The Pretreatment (PT) Facility will separate radioactive tank waste into High Level Waste (HLW) and Low-Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. As of July 2012, the PT Facility was 54 percent complete overall, with engineering design 81 percent complete, procurement 53 percent complete, construction 42 percent complete, and startup and commissioning 4 percent complete.

Significant Past Accomplishments:

The key on-going activities in PT are related to the resolution of the Pretreatment Vessel Vent Process (PVP) system design, Hydrogen in Piping and Ancillary Vessels (HPAV), erosion/corrosion and vessel mixing technical issues.

The medium scale testing was completed and the report documenting the results will be issued in September 2012. The preliminary results for both the small and medium scale tests resulted in an entrainment coefficient smaller than expected, which supports less extensive modification to the PVV system design. Dismantling of the test facility has begun.

The Hydrogen Generation Rate (HGR) calculations for HLP-17, HLP-12, HLP-09 and HFP-06 have been completed and will be issued after Verification and Validation (V&V) of the software. The remaining calculations in support of resolving the HPAV issue are currently planned to be completed in November 2012.

The implementation plan for the Preliminary Design Safety Analysis (PDSA) update, which will integrate the nuclear safety activities with the vessel design confirmation activities, is scheduled to be issued in September 2012.

The initial long lead procurements for the UFP-2 array, 14' test vessel & steel heads and structural steel test stand/skid have been released in support of the construction of the facility for the 14 foot vessel testing.

A revision to the 2010-2 Implementation Plan (IP) is in progress and will address the changes in strategy, approach and expectations. The plan is expected to be issued to the DNFSB in the last quarter of calendar year 2012.

The revised erosion/corrosion action plan was issued in August 2012, and a preliminary schedule to complete the items in the action plan will be issued in September 2012. A corrosion test scoping document is expected to be issued in December 2012 to address the material selection issue.

The NQA-1 Computational Fluid Dynamics (CFD) V&V tests will start after the resolution of DOE/NETL comments on the test plan. DOE and BNI have met with the NETL team and have established bi-weekly calls to review comments. Cloud height informational testing has been completed and User Defined Function (UDF) informational testing has been initiated.

Significant Planned Actions in the Next Six Months:

- Issue the final report documenting the results from the entrainment coefficient testing for the PVV system
- Complete Hazards and Operability Analysis (HAZOP) for (PVP) system
- Issue the implementation plan for the PDSA update
- Complete the HPAV HGR rate calculations
- Issue the technical scaling selection basis document
- Submit the 2010-2 Implementation Plan revision
- Issue the corrosion test scoping document

Issues:

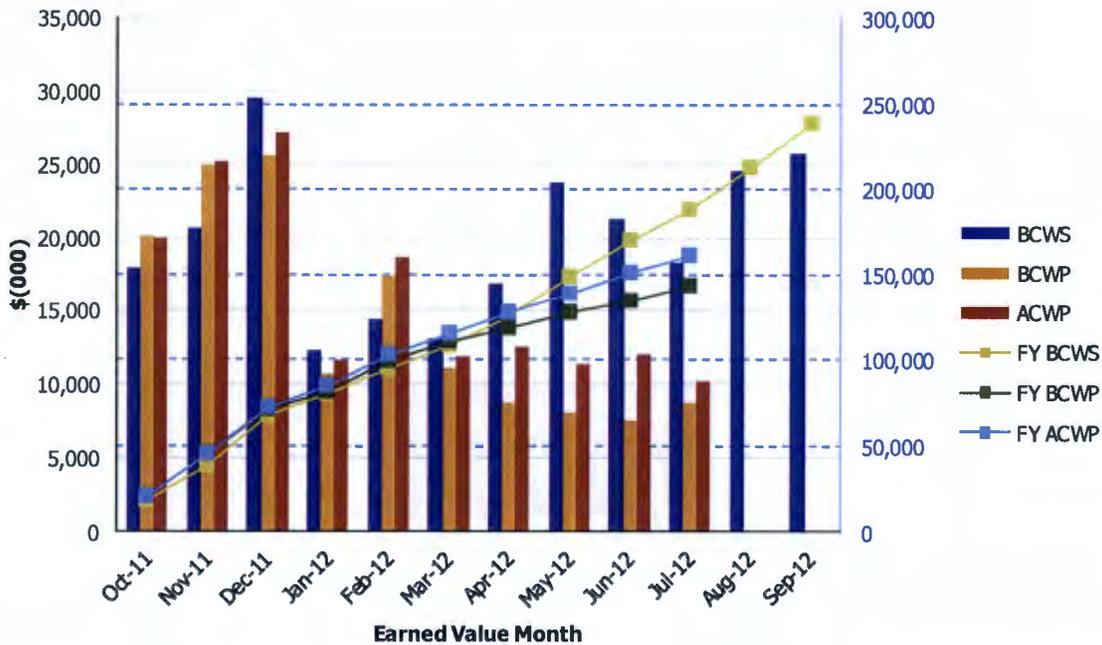
* Technical issues relevant to the PTF and HLW facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

**River Protection Project
Pretreatment Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$17,935	\$20,110	\$20,000	1.12	1.01	\$17,935	\$20,110	\$20,000	1.12	1.01
Nov 2011	\$20,616	\$24,945	\$25,222	1.21	0.99	\$38,551	\$45,055	\$45,222	1.17	1.00
Dec 2011	\$29,580	\$25,673	\$27,175	0.87	0.94	\$68,131	\$70,728	\$72,397	1.04	0.98
Jan 2012	\$12,292	\$10,751	\$11,583	0.87	0.93	\$80,423	\$81,479	\$83,980	1.01	0.97
Feb 2012	\$14,371	\$17,367	\$18,675	1.21	0.93	\$94,794	\$98,846	\$102,655	1.04	0.96
Mar 2012	\$13,101	\$11,054	\$11,874	0.84	0.93	\$107,895	\$109,900	\$114,529	1.02	0.96
Apr 2012	\$16,877	\$8,730	\$12,488	0.52	0.70	\$124,772	\$118,630	\$127,017	0.95	0.93
May 2012	\$23,773	\$8,080	\$11,320	0.34	0.71	\$148,545	\$126,710	\$138,337	0.85	0.92
Jun 2012	\$21,271	\$7,567	\$12,061	0.36	0.63	\$169,816	\$134,277	\$150,398	0.79	0.89
Jul 2012	\$18,275	\$8,767	\$10,178	0.48	0.86	\$188,091	\$143,044	\$160,576	0.76	0.89
Aug 2012	\$24,560			0.00		\$212,650			0.00	
Sep 2012	\$25,838			0.00		\$238,488			0.00	
PTD	\$1,431,264	\$1,392,543	\$1,381,189	0.97	1.01					

HIGH-LEVEL WASTE (HLW) FACILITY

Number	Title	Due Date	Status
D-00A-21	Complete Construction of Structural Steel to 37' in HLW Facility	12/31/2012	On-going
D-00A-02	HLW Facility Construction Substantially Complete	12/31/2016	On-going* (see issues below)
D-00A-03	Start HLW Facility Cold Commissioning	6/30/2018	On-going* (see issues below)
D-00A-04	HLW Facility Hot Commissioning Complete	12/31/2019	On-going* (see issues below)

The High Level Waste (HLW) Facility will receive the separated high-level waste concentrate from the Pretreatment (PT) Facility. This concentrate will be blended with glass formers and converted into molten glass in one of the two HLW melter and then poured into cylindrical stainless steel canisters. After cooling, the canisters will be sealed and decontaminated prior to shipment to interim storage. As of July 2012, the HLW Facility is 60 percent complete overall, with engineering design 87 percent complete, procurement 77 percent complete, construction 42 percent complete, and startup and commissioning is 4 percent complete.

Significant Past Accomplishments:

Excellent progress is being made on completion of the Consent Decree Milestone (D-00A-21) "Complete Construction of Structural Steel to 37' in HLW Facility." The current forecast for construction completion is September 2012 compared to the consent decree compliance date of December 31, 2012. The last steel erection consists primarily of 4 beams in the Rinse Tunnel which was installed in August. The documentation for the milestone completion is in process.

The seismic rails for the decontamination rinse bogie have been set. The Dangerous Waste Permit change notification has been approved so that the rinse bogie can be installed. The rinse bogie and decontamination vessel have been installed in the canister rinse tunnel and the rails have been aligned.

75% of the concrete has been poured in the facility with 58ft elevation walls continuing and a majority of the 37ft slabs complete. There are 3 slabs remaining to complete the 37ft level which are scheduled to complete by December 2012.

Fabrication of Plant Wash and Drain Vessel (RLD-VSL-08) in England was completed; and it was delivered to the Mid-Columbia Engineering Facility in April. Further inspection by Bechtel noted a number of weld deficiencies. At this time, Bechtel and the vendor are working to develop a Corrective Action Plan. The project completed factory acceptance testing on Thermal Catalytic Oxidizers (TCO) which are being fabricated in Colorado and are scheduled for delivery to the site in February 2013.

Significant Planned Actions in the Next Six Months:

- Complete 37' Structural Steel
- Develop Strategy Document for HEPA Filter Testing
- Complete Calculations to Melter Rail Supports

- Complete the First of the Two ABARs to Support PDSA Upgrade – Focus of the first ABAR is to incorporate changes in the facility and control descriptions.

Issues:

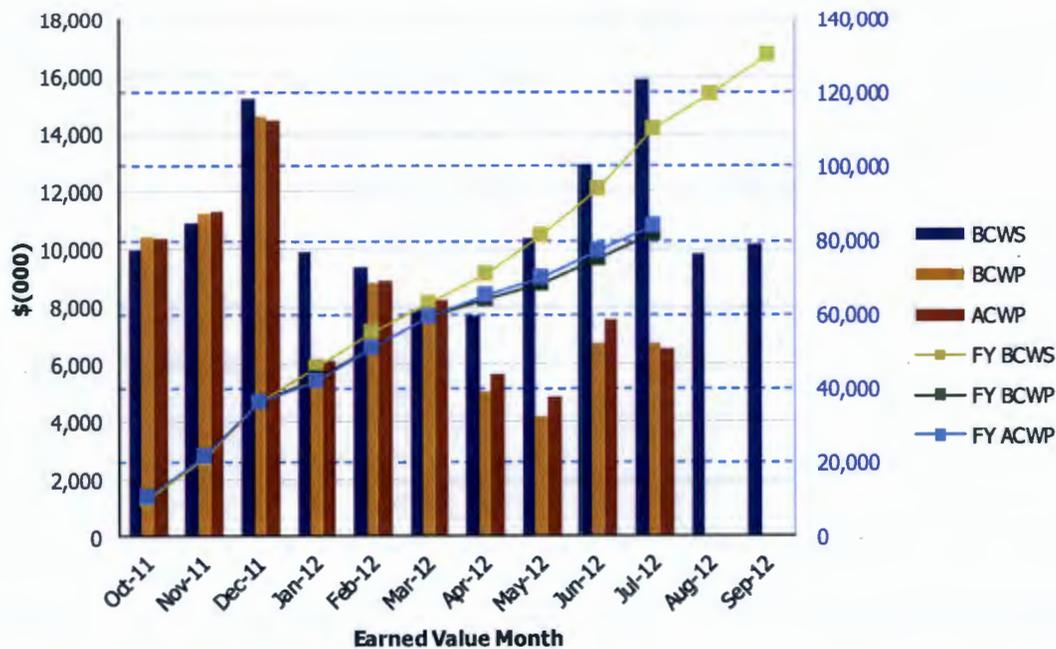
* Various issues may have potential impacts on the HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the HLW.

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

**River Protection Project
High-Level Waste Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$9,953	\$10,437	\$10,368	1.05	1.01	\$9,953	\$10,437	\$10,368	1.05	1.01
Nov 2011	\$10,920	\$11,224	\$11,295	1.03	0.99	\$20,873	\$21,661	\$21,663	1.04	1.00
Dec 2011	\$15,209	\$14,578	\$14,472	0.96	1.01	\$36,082	\$36,239	\$36,135	1.00	1.00
Jan 2012	\$9,878	\$6,187	\$6,142	0.63	1.01	\$45,960	\$42,426	\$42,277	0.92	1.00
Feb 2012	\$9,383	\$8,807	\$8,891	0.94	0.99	\$55,343	\$51,233	\$51,168	0.93	1.00
Mar 2012	\$7,900	\$7,901	\$8,221	1.00	0.96	\$63,243	\$59,134	\$59,389	0.94	1.00
Apr 2012	\$7,652	\$5,055	\$5,676	0.66	0.89	\$70,895	\$64,189	\$65,065	0.91	0.99
May 2012	\$10,364	\$4,150	\$4,849	0.40	0.86	\$81,259	\$68,339	\$69,914	0.84	0.98
Jun 2012	\$12,929	\$6,691	\$7,502	0.52	0.89	\$94,188	\$75,030	\$77,416	0.80	0.97
Jul 2012	\$15,888	\$6,709	\$6,541	0.42	1.03	\$110,076	\$81,739	\$83,957	0.74	0.97
Aug 2012	\$9,818			0.00		\$119,894			0.00	
Sep 2012	\$10,133			0.00		\$130,027			0.00	
PTD	\$939,569	\$913,365	\$909,015	0.97	1.00					

LOW-ACTIVITY WASTE (LAW) FACILITY

Number	Title	Due Date	Status
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014	On-going
D-00A-08	Start LAW Facility Cold Commissioning	12/31/2018	On-going
D-00A-09	LAW Facility Hot Commissioning Complete	12/31/2019	On-going

The Low-Activity Waste (LAW) Facility will vitrify LAW from the Pretreatment (PT) Facility. Waste will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers that are anticipated to be disposed on the Hanford Site in the Integrated Disposal Facility. The LAW Facility is 69 percent complete overall, with engineering design 85 percent complete, procurement 88 percent complete, construction 72 percent complete, and startup and commissioning is 5 percent complete.

Significant Past Accomplishments:

Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. The system design document and system software acceptance test for the Autosampling (ASX), Low-Pressure Steam (LPS), High-Pressure Steam (HPS) and Steam Condensate Water (SCW), C1 Ventilation (C1V), C2 Ventilation (C2V) and C5 Ventilation (C5V) systems were issued.

Updated system design documents for the LAW Container Export Handling (LEH) and LAW Container Pour Handling (LPH) were issued. New configuration data indices were issued for the LPS and Process Service Water (PSW) systems. Confirmed calculation was issued for the Erosion/Corrosion Evaluation for High and Low Pressure LAW Steam Lines. Piping isometric drawings for the LAW Melter Feed Process (LFP) system was issued. Piping support drawings were issued for the Plant Service Air (PSA), Radioactive Liquid Waste Disposal (RLD) and the Plant Cooling Water (PCW) systems. The Fabrication Details for LAW Melter Gas Barrier Lid and Shielded Lid Rail Transport System rigging plan were issued.

Procurement activities for the LAW facility are currently focused on the LAW Secondary Offgas/Vessel Vent Process System (LVP) system components. Engineering review of vendor calculations and vendor interactions continued as a major emphasis during the ongoing procurement of LVP system components. The first of two shipments for the utility crane was received which will be used to support upcoming refractory installations. Temperature transmitter for the LPS system was received and fabricated pipe stools.

The primary areas of construction focus continued to be LAW facility partition wall installation and equipment installation for the Container Finishing Handling (LFH) system. Installation of the decontamination manipulators, finishing line dual-rail hoists, and the trolley/bogie cars for the LFH system continued.

Construction activities were initiated to install instrument tubing at elevation -21' for the Atmospheric Reference Ventilation (AVR) system and subcontractor crews began applying coatings to Chilled Water (CHW) system piping at elevation -21'. Installed duct to Multiple Overblow (MOB) units to support environmental control for upcoming melter refractory installations. Other on-going construction activities included installation of instrument tubing,

scheduled conduit in various planning areas along with unscheduled lighting conduit at elevation +48'. Electrical work activities continued on LAW Container Pour Handling (LPH) system crane in the buffer storage room and LAW Container Finishing Handling (LFH) system hoist at elevation +28'.

Installation activities were completed for sealing melter bay #3 floor openings leading to elevation -21' with steel plate shielding and framing structural steel in the fire riser room.

Comments were resolved for software functional requirements for the following systems:

- LRH – LAW Container Receipt Handling System
- LVP – LAW Secondary Offgas/Vessel Vent Process System
- MHJ – Mechanical Handling Control System

Comments were resolved for safety software functional requirements for the following system:

- LVP – LAW Secondary Offgas/Vessel Vent Process System

Significant Planned Actions in the Next Six Months:

- Complete installation of melter power supplies
- Complete installation of Auto Sampling (ASX) system
- Receive HEPA Pre-heaters for LVP system
- Receive HEPA Housings for LVP system
- Receive Thermal Catalytic Oxidizer (TCO) for LVP system

Issues:

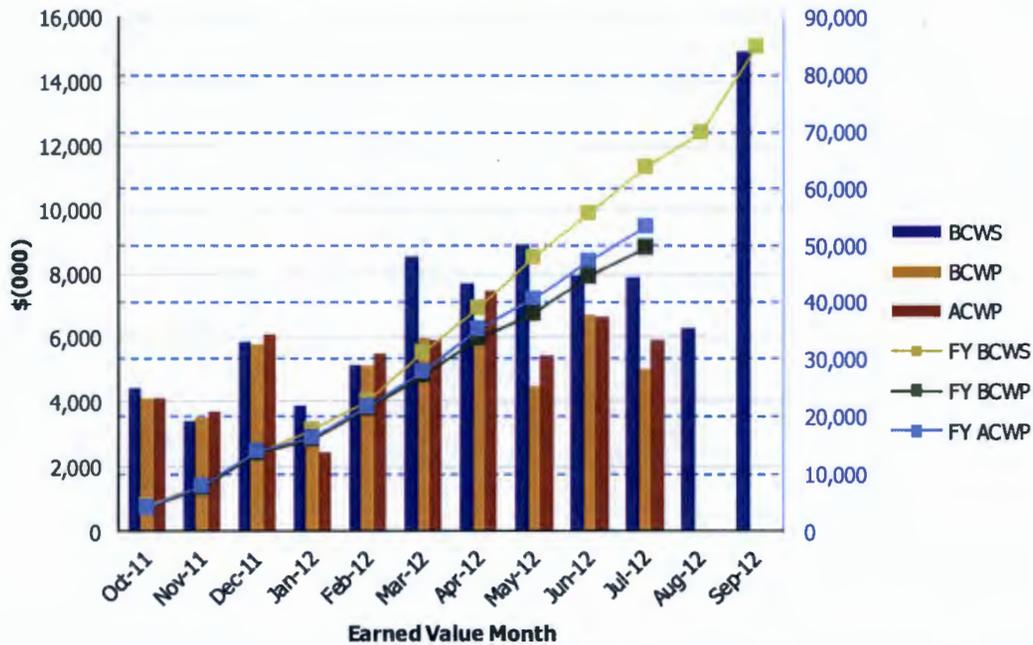
No major issues at this time.

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

**River Protection Project
Low-Activity Waste Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$4,415	\$4,115	\$4,104	0.93	1.00	\$4,415	\$4,115	\$4,104	0.93	1.00
Nov 2011	\$3,404	\$3,510	\$3,704	1.03	0.95	\$7,819	\$7,625	\$7,808	0.98	0.98
Dec 2011	\$5,827	\$5,807	\$6,123	1.00	0.95	\$13,646	\$13,432	\$13,931	0.98	0.96
Jan 2012	\$3,886	\$2,617	\$2,412	0.67	1.08	\$17,532	\$16,049	\$16,343	0.92	0.98
Feb 2012	\$5,140	\$5,117	\$5,472	1.00	0.94	\$22,672	\$21,166	\$21,815	0.93	0.97
Mar 2012	\$8,531	\$5,960	\$5,900	0.70	1.01	\$31,203	\$27,126	\$27,715	0.87	0.98
Apr 2012	\$7,735	\$6,351	\$7,469	0.82	0.85	\$38,938	\$33,477	\$35,184	0.86	0.95
May 2012	\$8,906	\$4,481	\$5,425	0.50	0.83	\$47,844	\$37,958	\$40,609	0.79	0.93
Jun 2012	\$7,945	\$6,685	\$6,619	0.84	1.01	\$55,789	\$44,643	\$47,228	0.80	0.95
Jul 2012	\$7,905	\$5,017	\$5,930	0.63	0.85	\$63,694	\$49,660	\$53,158	0.78	0.93
Aug 2012	\$6,263			0.00		\$69,957			0.00	
Sep 2012	\$14,932			0.00		\$84,889			0.00	
PTD	\$700,277	\$686,922	\$735,695	0.98	0.93					

BALANCE OF FACILITIES (BOF)

Number	Title	Due Date	Status
D-00A-12	Steam Plant Construction Complete	12/31/2012	On-going

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. The BOF is 50 percent complete overall, with engineering design 74 percent complete, procurement 50 percent complete, construction 65 percent complete, and startup and commissioning is 9 percent complete.

Significant Past Accomplishments:

Oversight efforts are focused on identification of individual facility requirements within BOF to support facility completion and turnover to the startup organization. As necessary to support facility completion, the WTP contractor initiates a weekly or bi-weekly meeting approximately 12 months prior to the scheduled turnover date. The meetings focus on schedule reviews and punch list development for the remaining construction activities. Regular meetings are currently being held for the WTP site switchgear buildings (87 and 91) and the Chiller Compressor Plant (CCP).

Recent accomplishments for the BOF team are:

- Completed 3 week walk down for WTP switchgear building 87
- Completed grouting column bases for the anhydrous ammonia storage facility
- Issued the Process Hazards Analysis Report for the Balance of Facilities
- Issued the Arc Flash Hazards and Risk Analysis for the BOF switchgear facility (Bldg. 91)
- Completed the Sanitary Disposal system (SND) tie-in for the LAW Annex

Significant Planned Actions in the Next Six Months:

- Complete construction of the Steam Plant
- Complete construction of Cooling Tower
- Complete Construction of the Chiller Compressor Plant
- Complete construction of BOF switchgear building
- Turnover WTP Switchgear (Bldg 87) from construction to the startup organization

Issues:

No major issues.

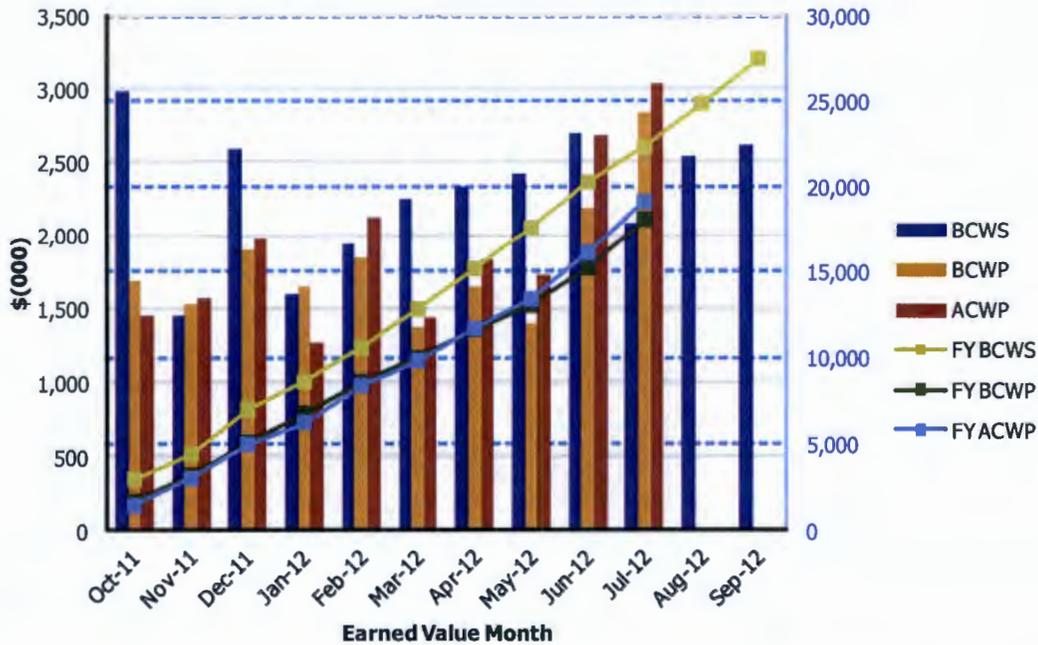
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

**River Protection Project
Balance of Facilities**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$2,980	\$1,685	\$1,454	0.57	1.16	\$2,980	\$1,685	\$1,454	0.57	1.16
Nov 2011	\$1,455	\$1,524	\$1,564	1.05	0.97	\$4,435	\$3,209	\$3,018	0.72	1.06
Dec 2011	\$2,594	\$1,895	\$1,981	0.73	0.96	\$7,029	\$5,104	\$4,999	0.73	1.02
Jan 2012	\$1,597	\$1,652	\$1,262	1.03	1.31	\$8,626	\$6,756	\$6,261	0.78	1.08
Feb 2012	\$1,939	\$1,841	\$2,123	0.95	0.87	\$10,565	\$8,597	\$8,384	0.81	1.03
Mar 2012	\$2,248	\$1,376	\$1,444	0.61	0.95	\$12,813	\$9,973	\$9,828	0.78	1.01
Apr 2012	\$2,331	\$1,651	\$1,835	0.71	0.90	\$15,144	\$11,624	\$11,663	0.77	1.00
May 2012	\$2,421	\$1,399	\$1,725	0.58	0.81	\$17,565	\$13,023	\$13,388	0.74	0.97
Jun 2012	\$2,698	\$2,188	\$2,685	0.81	0.81	\$20,263	\$15,211	\$16,073	0.75	0.95
Jul 2012	\$2,075	\$2,838	\$3,040	1.37	0.93	\$22,338	\$18,049	\$19,113	0.81	0.94
Aug 2012	\$2,533			0.00		\$24,871			0.00	
Sep 2012	\$2,615			0.00		\$27,486			0.00	

PTD	\$276,181	\$270,160	\$268,170	0.98	1.01
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ANALYTICAL LABORATORY

Number	Title	Due Date	Status
D-00A-05	LAB Construction Substantially Complete	12/31/2012	On-going

The Analytical Laboratory (LAB) will support WTP operations by analyzing feed, vitrified waste, and effluent streams. The LAB is 56 percent complete overall, with engineering design 82 percent complete, procurement 78 percent complete, construction 87 percent complete, and startup and commissioning is 10 percent complete.

Significant Past Accomplishments:

The project team continued to focus on the LAB Construction Substantially Complete milestone. Daily meetings are held to evaluate construction progress and challenges that arise. Major structures of the building are in place including the interior partition walls which segregate the various analytical stations for LAW sample analysis. Within the individual analytical areas, detail/finishing work continues with emphasis on the installation of commodities to support laboratory cabinets and analytical equipment. Recent accomplishments for the LAB team are listed below:

- Completed placement of self-contained AC units to support the LAB server room.
- Began installing electrical equipment for the Process Controls System (PCJ) in the LAB server room
- Continued installation efforts for the Hotcell trolley motor assemblies
- Continued testing of the Low Pressure Steam (LPS) and Condensate Return (SCW) systems

Significant Planned Actions in the Next Six Months:

- Complete mechanical installation of Autosampling System
- Set pumps in C5 pit
- Install Hot Cell import/export motors
- Progress Analytical Laboratory Construction to "Substantially Complete"

Issues:

No issues to report.

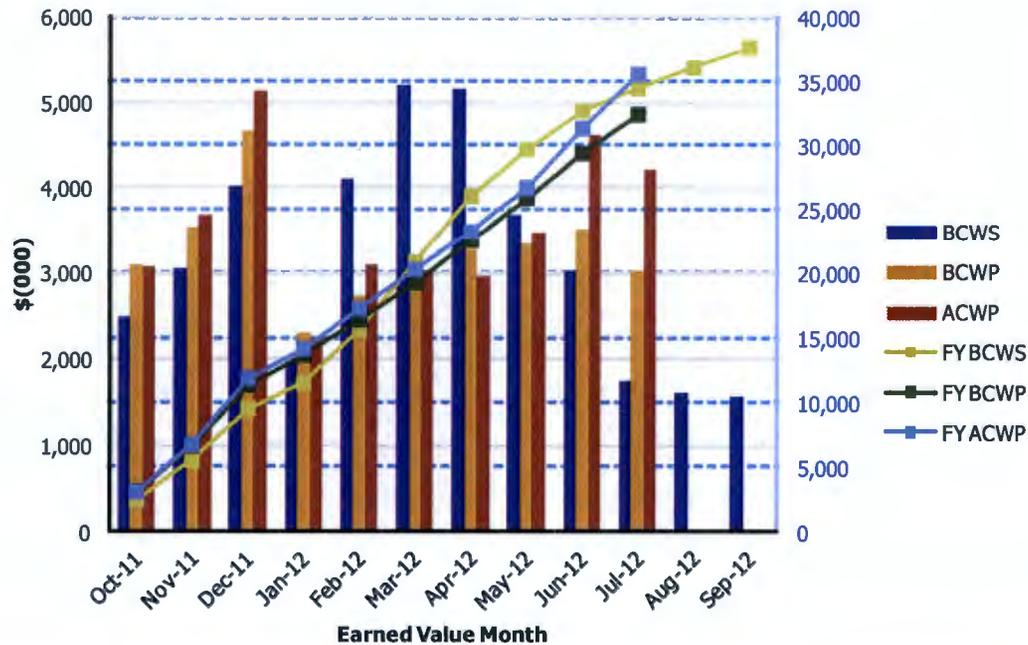
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: July 2012

**River Protection Project
Analytical Laboratory**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$2,489	\$3,092	\$3,063	1.24	1.01	\$2,489	\$3,092	\$3,063	1.24	1.01
Nov 2011	\$3,040	\$3,551	\$3,680	1.17	0.96	\$5,529	\$6,643	\$6,743	1.20	0.99
Dec 2011	\$4,005	\$4,676	\$5,128	1.17	0.91	\$9,534	\$11,319	\$11,871	1.19	0.95
Jan 2012	\$1,970	\$2,318	\$2,242	1.18	1.03	\$11,504	\$13,637	\$14,113	1.19	0.97
Feb 2012	\$4,113	\$2,725	\$3,091	0.66	0.88	\$15,617	\$16,362	\$17,204	1.05	0.95
Mar 2012	\$5,203	\$2,860	\$3,036	0.55	0.94	\$20,820	\$19,222	\$20,240	0.92	0.95
Apr 2012	\$5,167	\$3,265	\$2,954	0.63	1.11	\$25,987	\$22,487	\$23,194	0.87	0.97
May 2012	\$3,685	\$3,349	\$3,486	0.91	0.96	\$29,672	\$25,836	\$26,680	0.87	0.97
Jun 2012	\$3,020	\$3,531	\$4,627	1.17	0.76	\$32,692	\$29,367	\$31,307	0.90	0.94
Jul 2012	\$1,756	\$3,035	\$4,227	1.73	0.72	\$34,448	\$32,402	\$35,534	0.94	0.91
Aug 2012	\$1,612			0.00		\$36,059			0.00	
Sep 2012	\$1,572			0.00		\$37,631			0.00	
PTD	\$204,250	\$200,871	\$216,304	0.98	0.93					

Waste Treatment Plant Project - Percent Complete Status Through July 2012															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Plant Operations Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Facilities															
Low-Activity Waste	993.7	886.9	89%	250.8	213.4	85%	242.1	214.1	88%	350.5	252.6	72%	150.3	8.6	5%
Analytical Lab	360.6	200.9	56%	57.9	46.6	81%	56.2	44.0	78%	109.9	95.1	87%	138.6	14.1	10%
Balance of Facilities	538.9	270.2	50%	89.0	65.9	74%	81.4	41.1	50%	231.8	150.2	65%	138.7	12.9	9%
High-Level Waste	1,516.3	913.4	60%	355.9	309.7	87%	458.2	353.0	77%	582.3	245.9	42%	120.0	4.8	4%
Pretreatment	2,588.5	1,392.5	54%	774.0	623.4	81%	713.5	374.6	53%	914.6	387.5	42%	186.4	7.1	4%
Shared Services	4,720.2	3,586.3	76%	1,005.1	824.1	82%	471.7	407.8	86%	1,432.0	1,132.6	79%	455.9	138.4	30%
Total WTP w/o UB	10,718.2	7,050.1	66%	2,532.6	2,183.1	86%	2,023.2	1,434.7	71%	3,621.9	2,263.8	63%	1,185.8	184.3	16%
Undistributed Budget	0.3	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,718.5	7,050.1	66%	2,532.6	2,183.1	86%	2,023.2	1,434.7	71%	3,621.9	2,263.8	63%	1,185.8	184.3	16%

Source: Preliminary WTP Contract Performance Report - Format 1, Data for July 2012

Note: Starting with the June 2009 report, facility Construction percent complete values decreased significantly, and a couple of Design/Engineering facility percent complete values went down as well. The decrease in values was tied to Phase I of BN's elimination of WBS 1.08, Plant Wide EPCC; scope from WBS 1.08 was moved to facilities as appropriate or to WBS 1.09, Shared Services. This resulted in an increase in the facility construction budgets, which has correspondingly reduced the to-date percent complete values. In July 2010 the allocation of 1.09 to the facilities was removed to show true facility percent complete. This report does not show the LOE budgets that are not associated with a specific EPCC function, these include, Finance, Project Management, etc, but are included in the total Overall Facility Percent Complete for Shared Services.