

FINAL

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

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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-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		On-going
**D-00C-02S	Submit to Ecology and Oregon Monthly Summary Reports	05/31/12		On-going
** Future Monthly Summary Reports will be added as necessary to maintain a two-months ahead activity.				
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-01E	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/12		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
D-00C-01F	Submit to Ecology & State of Oregon Semi-Annual Report	1/31/2013		On-going
D-00C-01G	Submit to Ecology & State of Oregon Semi-Annual Report	7/31/2013		On-going
D-006-00-A1	Provide State of Oregon Notice of Meetings	9/25/2013		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 Schedule

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 Schedule

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 Schedule

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 Schedule

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-108, C-109, C-110, C-104, C-111, and C-112.

D-00B-02, Advise Ecology of the 9 SST's 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 provided ORP with the guidance that Ecology believes the requirements of Project B-2 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 design and procurement for C-101 & 102 bulk retrieval systems.
2. Continued field activities for installation of ventilation system and removal of legacy equipment in C-101 and C-102.
3. Completed design of Hard Heel Removal equipment for C-104.
4. Continued procurement for C-104 Hard Heel Removal equipment.
5. Continued construction activities for removal of equipment at C-105, to support Large Riser installation.
6. Completed mockup testing of the method for removing the C-105 Heel Pit to allow installation of the Large Riser.
7. Completed Hard Heel Removal at C-108 with second technology, initiated the calculation for determining the remaining waste in the tank.
8. Completed design and procurement for C-109 Hard Heel Removal equipment.
9. Initiated field activities for installation of Hard Heel Removal Equipment.
10. Continued with AN-106 pump replacement.
11. Continued with sampling efforts on C-111 using a Ramon Spectrometer, as a prototype.
12. Continued with C-112 retrieval operations, greater than 60 percent of the waste retrieved.

Significant Planned Activities in the Next Six Months:

1. Complete construction/installation of the modified sluicing system in C-101.
2. Complete the installation of the C-102 ventilation system and removal of legacy equipment.
3. Initiate start up of Hard Heel Removal system for C-104.
4. Complete the installation of the C-105 ventilation system and removal of equipment.
5. Complete the installation of the Large Riser in C-105.
6. Complete C-107 bulk retrieval.
7. Initiate hard heel retrieval of C-109.
8. Complete C-112 bulk retrieval.
9. Complete discussions with Ecology on the retrieval certificate of completion.
10. Complete installation of the AN-106 replacement pump and restart of C-107 retrieval system.

Issues:

The C-108 tank has had a full sampling suite of analyses performed after bulk retrieval, which is what would be done for a tank after final retrieval for the Retrieval Data Report sampling and analyses. After completion of chemical dissolution which is the second retrieval technology performed at C-108, an amended tank specific sampling and analysis plan will need to be performed for the C-108 closure, to take into account previous null sample results. ORP and ECY have agreed to have a regulator approved specific sampling analysis plan developed after the second retrieval technology at C-108 following the second retrieval technology.

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	Early Spring 2012	MARS-V	-	-
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	March 2012 after evaluation of C-108 hard heel retrieval	Modified Sluicing	MS-ITV, to be revised to chemical dissolution	-
C-110	RPP-33116	March 2012 after evaluation of C-108 hard heel retrieval	Modified Sluicing	To be revised to chemical dissolution	-
C-111	RPP-37739	March 2012 after evaluation of C-108 hard heel retrieval	Modified Sluicing	To be revised to include water soaking and chemical dissolution for the hard crust on the surface of the waste	-
C-112	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-

Significant Accomplishments

None.

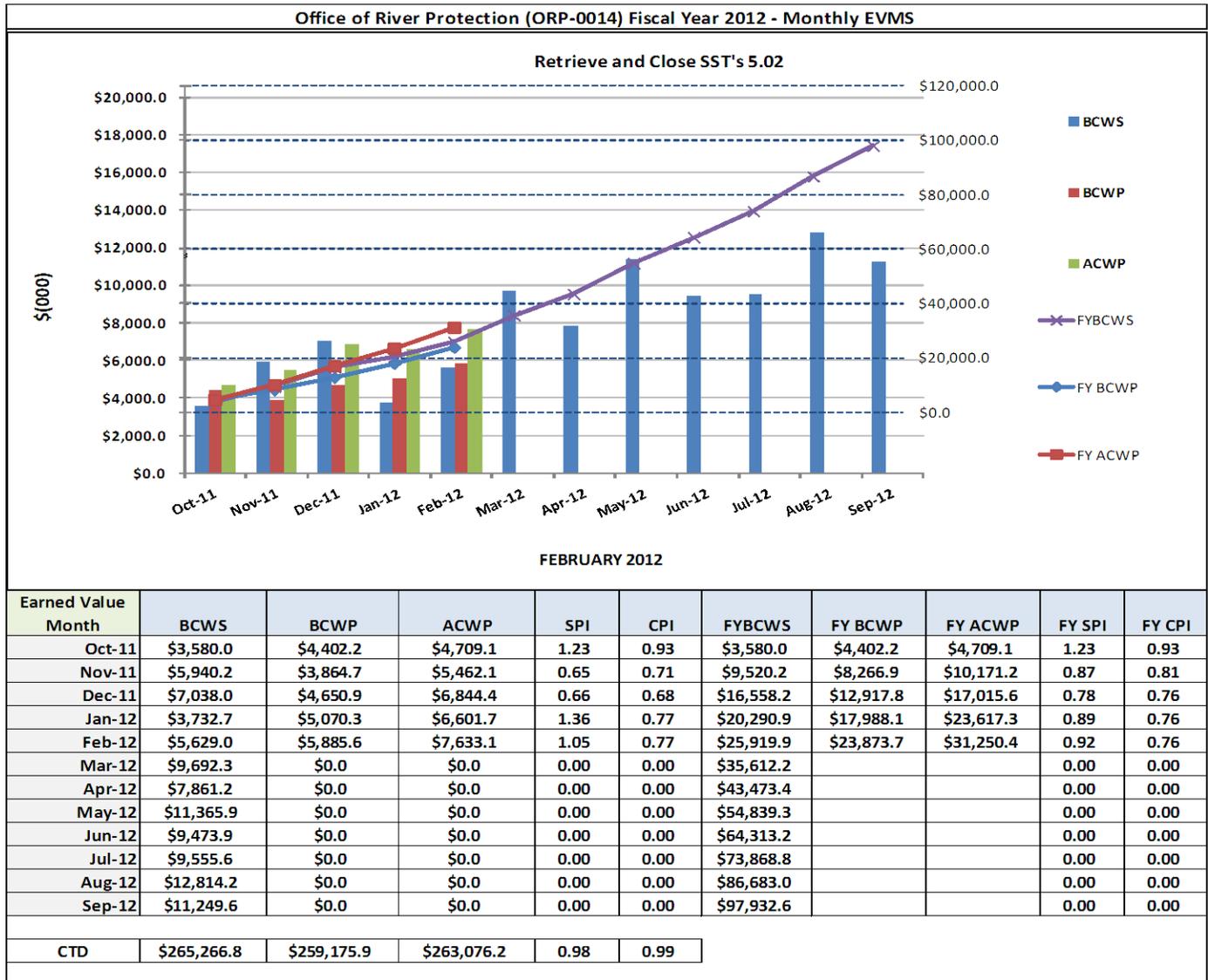
Significant Planned Activities in the Next 6 Months:

Work with Ecology on RPP-22520, Rev 7, 241-C-101 and 241-C-105 Tanks Waste Retrieval Work Plan.

Issues:

None.

SST Retrieval Monthly and Fiscal Year EVMS Data



Single-Shell Tanks

Cost Variance (-\$1747.5K):

The unfavorable cost variance is primarily due to:

- C Farm Infrastructure costs are higher due to the AN-106 construction and pump replacement activities. Significant engineering, pump assembly, and testing costs resulted due to the change from an electric pump to a hydraulic pump. In addition, installation of the work tent took longer than originally planned.
- Higher costs due to the expansion in the scope of work associated with the accelerated C-104 Hard Heel Retrieval project resulting in unanticipated planning and engineering labor and subcontract design costs.
- C-107 Retrieval costs are higher due to the failed supernate pump at receiver tank AN-106. The pump failed during operation and retrieval was discontinued. Unplanned maintenance/repair/troubleshooting activities were performed during February, with no associated retrieval progress.

- Health physics technical and nuclear chemical operation labor costs were higher than planned due to a two week downtime when circulation of the caustic in C-108 was not possible. Increased material costs associated with the purchase of blankets and miscellaneous items needed to keep the tank warm to prevent the caustic from gelling in the tank were also a contributor to the unfavorable cost variance.
- One-time costs to train construction forces personnel supporting Tank C-109 hard heel removal. No training of construction forces was projected as it was assumed that the work would be performed by plant forces but was later determined to be construction forces.

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 about 2,898 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 579 craft, 542 non-manual, and about 173 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of February 2012, the project was 64 percent complete overall, design and engineering was 85 percent complete, procurement was 69 percent complete, construction was 60 percent complete, and startup and commissioning was 14 percent complete.

The overall WTP Project schedule variance in February was a positive \$10.4M; the cost variance was a negative \$30.0M. The cost variance was primarily related to Engineering Design, Construction Crafts, and Construction Subcontracts; and the schedule variance was primarily related to Plant Equipment and Plant Materials.

Following is the status through the end of February for current project issues.

Significant Past Accomplishments:

- Aerosol testing to determine realistic entrainment coefficient for the Process Vessel Vent Exhaust (PVV) system has been started and is in progress for PT
- The water run tests in support of the Verification and Validation (V&V) testing for Computational Fluid Dynamics (CFD) have been completed for PT
- Completed 50% of submerged bed scrubber and 60% of High Efficiency Mist Elimination vessels for HLW
- Completed 75% of the concrete in HLW with 58ft elevation walls continuing and a majority of the 37ft slabs complete
- Substantially completed mechanical systems design for the LAW facility
- Interface Control Document (ICD) 11 "Interface Control Document for Electricity" in support of site start-up is currently being routed for signature for BOF
- Held DNFSB 2010-2 Public Meeting on March 2012.

Significant Planned Actions in the Next Six Months:

- Perform LSIT in 4ft and 8ft vessels for the V&V of Computational Fluid Dynamics (CFD) program for PT
- Receive Plant Wash and Drains vessel for HLW (RLD-VSL-8)
- Complete 37' structural steel in HLW
- Complete installation of LAW melter power supplies
- Complete installation of the LAW autosampler (ASX system)
- Complete installation of the LAB autosampler System

- Complete construction of the BOF cooling tower
- Complete construction of BOF switchgear building

Issues:

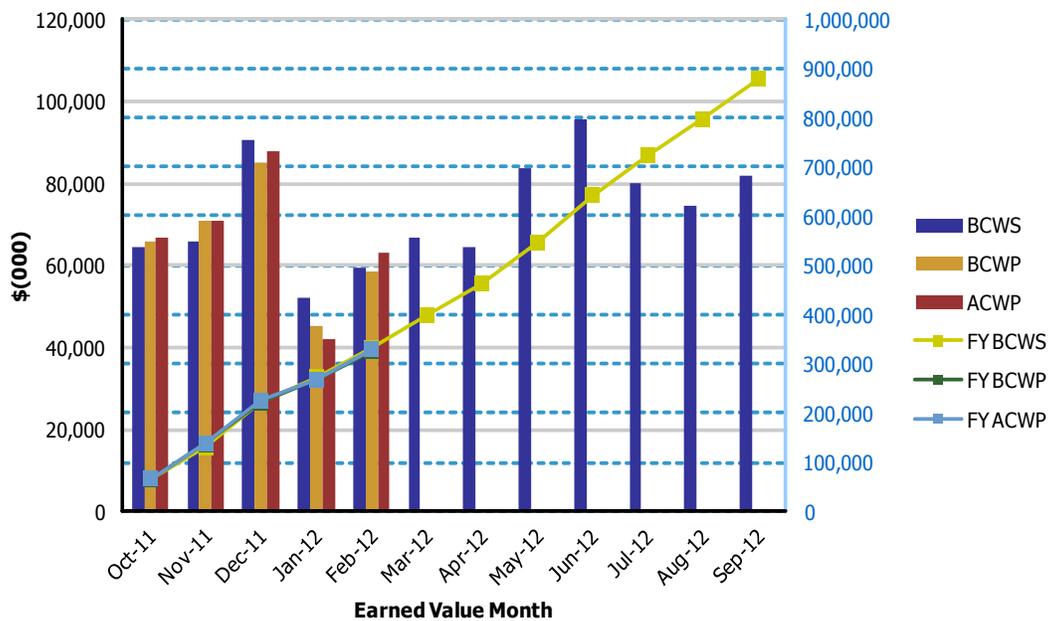
- PT and HLW Facilities: Other issues have potential impacts on the PTF and HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the PTF and HLW.
- No significant technical issues in LAW, LAB or BOF at this time

Data Set: FY 2012 Earned Value Data

Data as of: February 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	\$66,635			0.00		\$398,911			0.00	
Apr 2012	\$64,587			0.00		\$463,498			0.00	
May 2012	\$83,766			0.00		\$547,264			0.00	
Jun 2012	\$95,717			0.00		\$642,981			0.00	
Jul 2012	\$80,199			0.00		\$723,180			0.00	
Aug 2012	\$74,342			0.00		\$797,522			0.00	
Sep 2012	\$81,928			0.00		\$879,449			0.00	

PTD	\$6,796,023	\$6,806,422	\$6,836,436	1.00	1.00
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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. Through February 2012, the PT Facility was 52 percent complete overall, with engineering design 78 percent complete, procurement 51 percent complete, construction 42 percent complete, and startup and commissioning was 4 percent complete.

Significant Past Accomplishments:

On-going PT construction has been limited to installation of rebar and embedded conduit for the placement of Control Building base mat and 98ft elevation slabs, drain piping, conduit and grounding, structural steel at the 77ft elevation, and roof decking.

Aerosol testing to determine realistic entrainment coefficient for the Process Vessel Vent Exhaust (PVV) system is continuing at the Parsons Facility in Pasco. The "Small" scale tests are completed, and showed positive results. The "Medium" scale tests are ongoing and will be completed in April 2012.

BNI is actively working to resolve issues regarding vessel material selection and mixing. Various DNFSB 2010-2 recommendations Implementation Plan deliverable documents are being developed for the April and May deliverables. The water run tests in support of the Verification and Validation (V&V) testing for Computational Fluid Dynamics (CFD) have been completed. Simulant tests are forecasted to start in May 2012. The analysis for bounding of Non-Newtonian fluid based on Newtonian fluid characteristics has been completed. The results concluded that the Newtonian fluids do not bound non-Newtonian fluids and thus cannot be used for the evaluation of non-Newtonian vessels. Planning is ongoing for the path forward for the non-Newtonian vessels that may include additional scaling testing and/or other alternate methods which are still under development.

Completed the Hazards and Operability analyses (HAZOP) for the Plant Wash and Disposal (PWD) system and heel management and started the HAZOP for the Pretreatment Vessel Vent Process (PVP) system. Completed the Hydrogen in Piping And Vessels (HPAV) Hydrogen Generation Rate (HGR) calculation and supporting Quantitative Risk Analysis (QRA) runs for the Waste Feed Receipt Process (FRP) system. Issued system descriptions part II with current information.

Fabrication of the nine off-site vessels is being curtailed at the current time. The fabrication for Lag Storage and Feed Blending Process vessels HLP-22, 27A, 27B, 28 and Ultrafiltration Process vessels UFP-2A, 2B being performed by Harris Thermal (HTTP) has been fully suspended. The fabrication of Plant Wash and Disposal vessel PWD-44 being performed by Northwest Copper (NWC) will be completed and stored with the vendor. The fabrication of vessels UFP-1A and 1B also being performed by NWC will be partially suspended. The timing for resumption of the fabrication work will be determined based on the results of the re-baseline effort.

Other equipment procurements have been slowed or suspended due to funding constraints in FY 2012.

Significant Planned Actions in the Next Six Months:

- Complete aerosol testing to determine entrainment coefficient for the PVV system
- Complete placements for the Control Building base mat
- Complete HAZOP for PVP system
- Complete resolution of the material selection issues with the vessels
- Perform LSIT in 4ft and 8ft vessels for the V&V of Computational Fluid Dynamics (CFD) program

Issues:

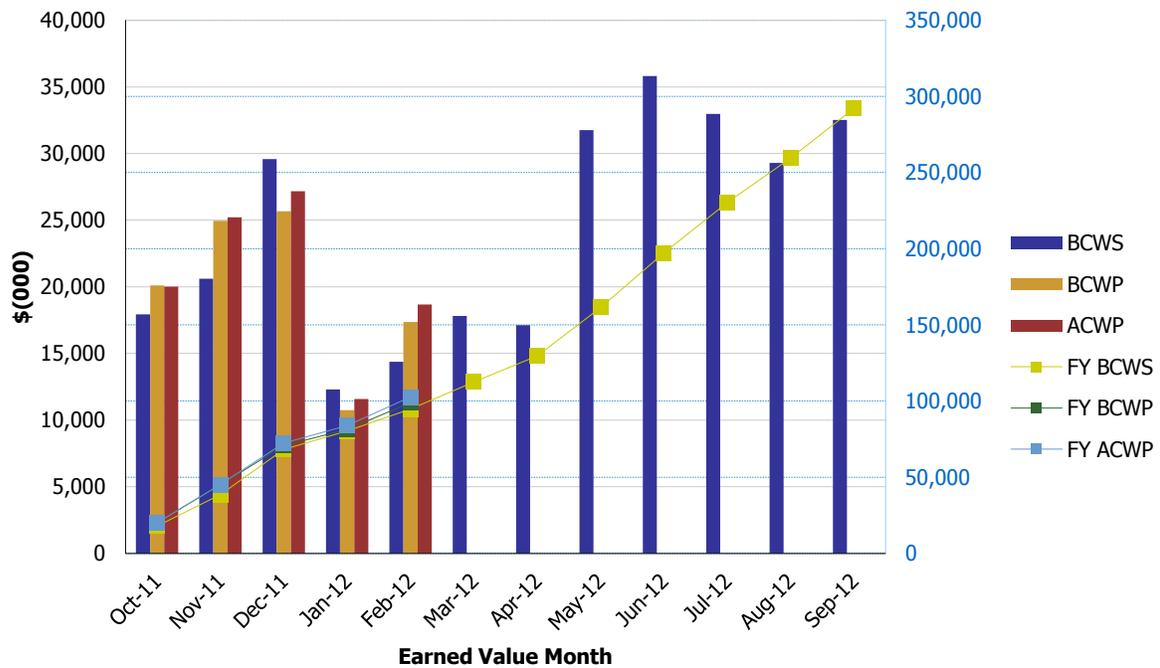
* Other issues have potential impacts on the PT schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the PTF.

Data Set: FY 2012 Earned Value Data

Data as of: February 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	\$17,804			0.00		\$112,598			0.00	
Apr 2012	\$17,121			0.00		\$129,719			0.00	
May 2012	\$31,749			0.00		\$161,469			0.00	
Jun 2012	\$35,807			0.00		\$197,275			0.00	
Jul 2012	\$32,977			0.00		\$230,253			0.00	
Aug 2012	\$29,294			0.00		\$259,547			0.00	
Sep 2012	\$32,525			0.00		\$292,072			0.00	

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 melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters will be sealed and decontaminated prior to shipment to interim storage. The HLW Facility is 58 percent complete overall, with engineering design 85 percent complete, procurement 75 percent complete, construction 40 percent complete, and startup and commissioning is 4 percent complete.

Significant Past Accomplishments:

Following re-sequencing of the slab over the Filter Cave and the associated walls, the critical path has become the Melter Cell #2 build out. The re-sequencing of the slab will improve installation unit rates for commodities in the Filter Cave. The near term critical path activities now include two Melter Cell walls, installation of four wall modules, and steel liner plate and insulation on the floor. The submerged bed scrubber and High Efficiency Mist Elimination (HEME) vessels are the major procurements associated with the Melter Cave build out. Current scheduled date to set vessels is May 2013. The vessels are in production and 50% and 60% complete respectively with the last to deliver in January of 2013.

The seismic rails for the decontamination rinse bogie have been set. The rails will be installed following the setting of the decontamination rinse bogie for final alignment. Fabrication of Plant Wash and Drain Vessel (RLD-VSL-08) was completed; it has been shipped from its location in England and was delivered in April 2012. Completed installation of remote-operated dampers in the filter cave with the steel decking to be installed after structural steel is placed. Electrical and piping commodities are progressing throughout the -21ft, 0ft and 14ft elevation, including cooling water, cable trays and supports, and fire protection piping. Sub-contractors are also continuing with applying special coatings, installing Heating, Ventilation, and Air Conditioning (HVAC), fire protection piping, and liner plate installations. 75% of the concrete has been poured in the facility with 58ft elevation walls continuing and a majority of the 37ft slabs complete.

Significant Planned Actions in the Next Six Months:

- Complete 37' structural steel
- Complete Factory Acceptance Test on the first Thermal Catalytic Oxidizer
- Receive last shield door (HSH-DOOR-00003)
- Receive Plant Wash and Drains Vessel (RLD-VSL-8)
- Receive Primary Offgas Vessel HEME Vessel
- Stage Rinse Bogie with Rinse Vessel in Canister Rinse Tunnel

Issues:

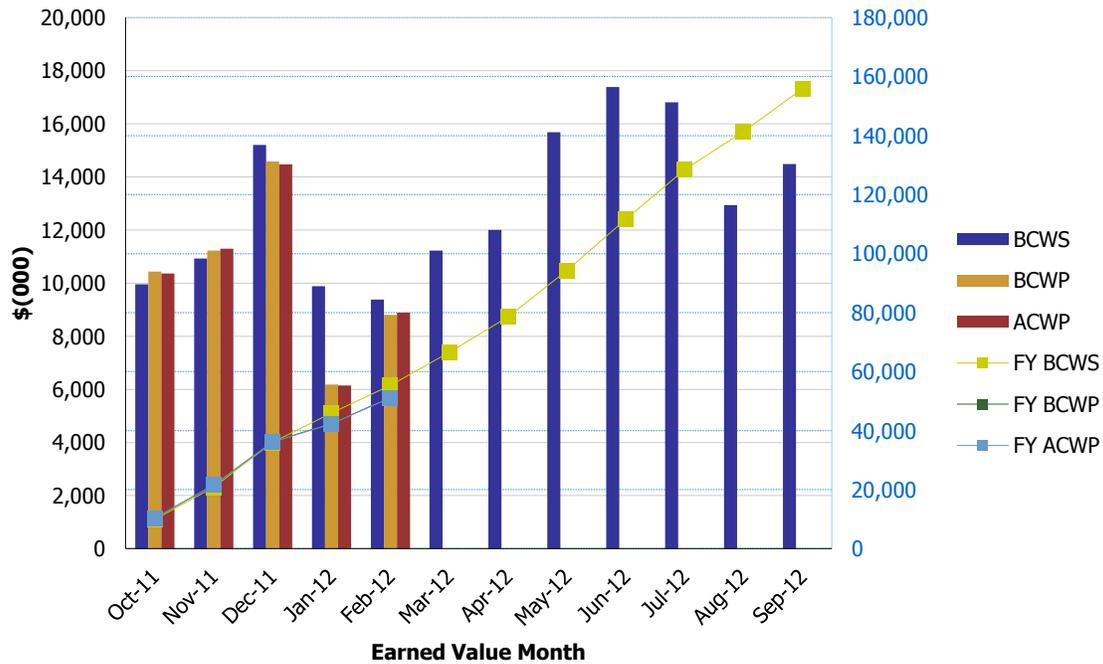
- * Various issues may have potential impacts on the HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the HLW.

Data Set: FY 2012 Earned Value Data

Data as of: February 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	\$11,228			0.00		\$66,571			0.00	
Apr 2012	\$12,000			0.00		\$78,571			0.00	
May 2012	\$15,677			0.00		\$94,248			0.00	
Jun 2012	\$17,388			0.00		\$111,635			0.00	
Jul 2012	\$16,812			0.00		\$128,447			0.00	
Aug 2012	\$12,944			0.00		\$141,391			0.00	
Sep 2012	\$14,486			0.00		\$155,877			0.00	

PTD	\$884,836	\$882,859	\$876,226	1.00	1.01
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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 67 percent complete overall, with engineering design 84 percent complete, procurement 87 percent complete, construction 68 percent complete, and startup and commissioning is 4 percent complete.

Significant Past Accomplishments:

Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. For example, instrument data sheets were issued for the gas analyzer system. In addition, control logic diagrams were updated for the LAW Melter Process (LMP) system melter #1 and melter #2 plenum pressure and cooling compartment temperature inputs. Also, control logic diagrams were updated for the LAW Primary Off-Gas Process (LOP) system wet electrostatic precipitator instrumentation. An engineering specification was issued for structural design loads for seismic category III and IV equipment and tanks. System Descriptions were issued for the Communications Electrical (CME) and Facility Network Infrastructure (FNI) systems. Equipment qualification data sheet for melters #1 and #2 were issued. Piping isometric drawings for the LOP system were issued. Piping support drawings were issued for the LAW Melter Feed Process (LFP), LAW Secondary Off-Gas/Vessel Vent Process (LVP), Breathing Service Air (BSA), Chilled Water (CHW), and Radioactive Liquid Waste Disposal (RLD) systems.

Procurement activities for the LAW facility are currently focused on the 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 primary areas of construction focus continued to be LAW facility partition wall installation and equipment installation for the Container Finishing Handling (LFH) system. For example, 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 pull Melter #2 into position to prepare for melter refractory installation. Other on-going construction activities included installation of pour cave monorail hoists for the Container Pour Handling (LPH) system and the buffer storage crane. Placing and grouting of the LMP system pumps in the melter bays was completed.

Software acceptance test reports (one each) were issued for the LAW Concentrate Receipt Process (LCP), LAW Container Export Handling (LEH), and Non-Radioactive Liquid Waste Disposal (NLD) systems. Completed the review of software functional requirements for the following systems:

- Melter Feed Process (LFP)
- Auto Sampling (ASX)
- Container Pour Handling (LPH)
- LAW Melter Process (LMP)

Significant Planned Actions in the Next Six Months:

- Complete installation of melter power supplies
- Complete installation of auto sampling (ASX) system
- Receive Exhausters for LVP system
- Receive HEPA Pre-heaters for LVP system
- Receive HEPA Housings for LVP system

Issues:

No major issues at this time.

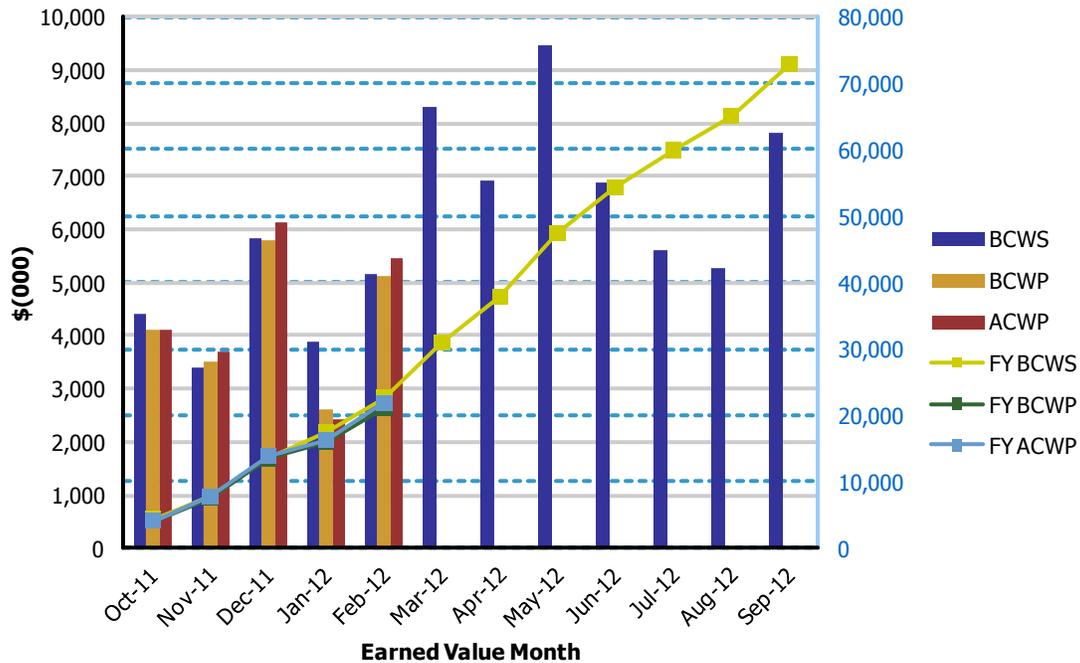
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: February 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	\$8,317			0.00		\$30,989			0.00	
Apr 2012	\$6,920			0.00		\$37,909			0.00	
May 2012	\$9,462			0.00		\$47,371			0.00	
Jun 2012	\$6,892			0.00		\$54,264			0.00	
Jul 2012	\$5,606			0.00		\$59,870			0.00	
Aug 2012	\$5,257			0.00		\$65,127			0.00	
Sep 2012	\$7,821			0.00		\$72,948			0.00	

PTD	\$659,256	\$658,429	\$704,351	1.00	0.93
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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 48 percent complete overall, with engineering design 72 percent complete, procurement 48 percent complete, and construction 63 percent complete, startup and commissioning is 8 percent complete.

Significant Past Accomplishments:

Oversight efforts are focused on identification of the individual facility requirements within BOF to support facility completion, and turnover to the startup organization. While individual BOF facilities are not subject to a formal Operational Readiness Review (ORR), each facility will be evaluated to verify the adequacy of design and readiness for operation. The first stage of this validation will occur as part of the turnover from construction to the startup organization for component level testing.

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 Chiller Compressor Plant (CCP). In support of the WTP site energization, Interface Control Document (ICD) 11 “Interface Control Document for Electricity” has been revised and is being routed for signature.

Recent accomplishments for the BOF team are listed below:

- Issued alarm response procedures for the fire water pump house facility
- Issued operating procedures for the Fire Service Water (FSW) storage and distribution system
- Installed lube oil coolers in the CCP
- Continued installation of Non-Radioactive Liquid (NLD) waste disposal system tank instrumentation

Significant Planned Actions in the Next Six Months:

- Complete construction of cooling tower
- Complete construction of BOF switchgear building
- Install structural steel for anhydrous ammonia facility
- Receive anhydrous ammonia system

Issues:

No major issues.

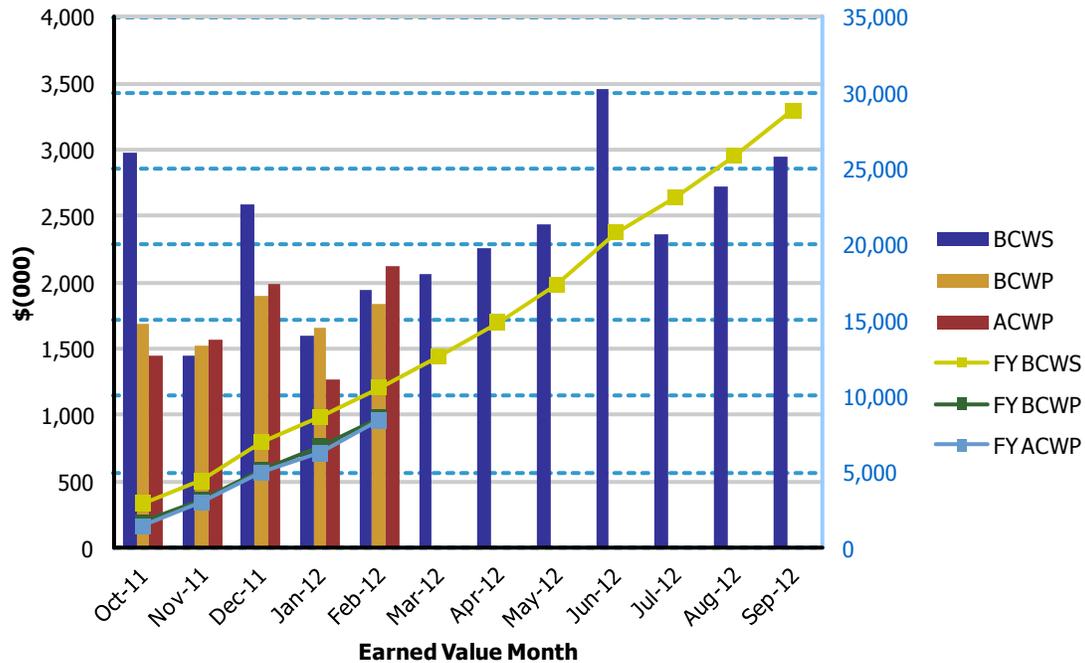
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: February 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	\$2,060			0.00		\$12,625			0.00	
Apr 2012	\$2,256			0.00		\$14,882			0.00	
May 2012	\$2,444			0.00		\$17,326			0.00	
Jun 2012	\$3,461			0.00		\$20,787			0.00	
Jul 2012	\$2,356			0.00		\$23,143			0.00	
Aug 2012	\$2,727			0.00		\$25,870			0.00	
Sep 2012	\$2,946			0.00		\$28,816			0.00	

PTD	\$264,408	\$260,708	\$257,440	0.99	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 the WTP operations by analyzing feed, vitrified waste, and effluent streams. The LAB is 52 percent complete overall, with engineering design 78 percent complete, procurement 75 percent complete, construction 78 percent complete, and startup and commissioning is 10 percent complete.

Significant Past Accomplishments:

Efforts of the LAB team continue to focus on the LAB Construction Substantially Complete milestone. Weekly 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 installation of laboratory cabinets, commodities to support analytical equipment, and HEPA filtration to the fume hoods.

Modifications to the HVAC system are on-going to support installation of test ports and relocation of electrical equipment originally destined for the WTP administrative building.

Recent accomplishments for the LAB team are listed below:

- Installed Gamma probes for north section of LAB hotcell
- Installed ember screen for the C5V Hotcell air in-bleed
- Issued ASX system control logic diagram
- Issued updated penetration seal schedule

Significant Planned Actions in the Next Six Months:

- Install Autosampler HEPA filter housings frames
- Complete installation of Autosampler System
- Install can crusher
- Set pumps in C5 pit
- Install Hot Cell import/export motors

Issues:

No major issues.

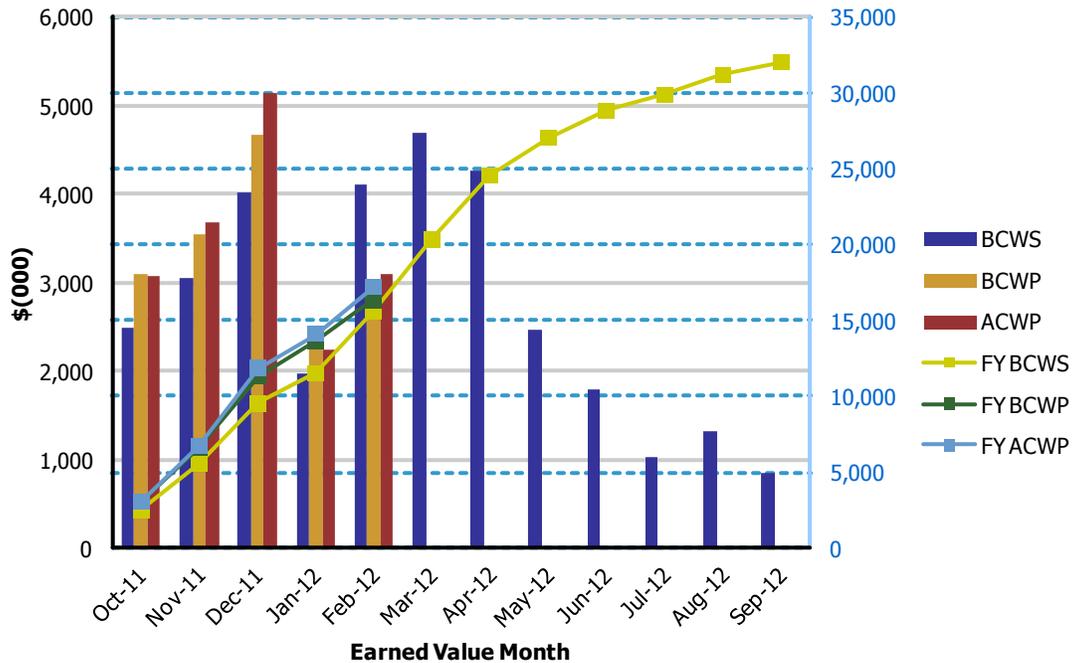
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: February 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	\$4,687			0.00		\$20,304			0.00	
Apr 2012	\$4,259			0.00		\$24,563			0.00	
May 2012	\$2,468			0.00		\$27,030			0.00	
Jun 2012	\$1,798			0.00		\$28,828			0.00	
Jul 2012	\$1,024			0.00		\$29,852			0.00	
Aug 2012	\$1,309			0.00		\$31,161			0.00	
Sep 2012	\$838			0.00		\$31,999			0.00	

PTD	\$185,420	\$184,831	\$197,973	1.00	0.93
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Waste Treatment Plant Project - Percent Complete Status															
Through February 2012															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Commissioning 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	981.3	658.4	67%	244.7	206.7	84%	240.9	208.6	87%	345.6	236.6	68%	150.1	6.6	4%
Analytical Lab	358.4	184.8	52%	57.5	44.5	77%	56.2	42.1	75%	108.1	84.5	78%	136.5	13.1	10%
Balance of Facilities	537.8	260.7	48%	88.5	63.9	72%	81.4	39.1	48%	231.4	146.5	63%	136.5	11.1	8%
High-Level Waste	1,515.3	882.9	58%	355.3	303.2	85%	457.9	342.0	75%	582.1	232.9	40%	120.0	4.7	4%
Pretreatment	2,572.4	1,348.3	52%	757.9	594.3	78%	713.5	366.4	51%	914.6	380.6	42%	186.4	7.0	4%
Shared Services	4,708.0	3,471.3	74%	1,003.1	915.5	91%	471.5	390.1	83%	1,428.8	1,097.1	77%	455.8	127.5	28%
Total WTP w/o UB	10,673.2	6,806.4	64%	2,507.0	2,128.2	85%	2,021.5	1,388.3	69%	3,610.8	2,178.2	60%	1,185.3	169.9	14%
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,673.2	6,806.4	64%	2,507.0	2,128.2	85%	2,021.5	1,388.3	69%	3,610.8	2,178.2	60%	1,185.3	169.9	14%

Source: Preliminary WTP Contract Performance Report - Format 1_Data for February 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 1.90, 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 1.90 to the facilities was removed to show true facility percent complete.