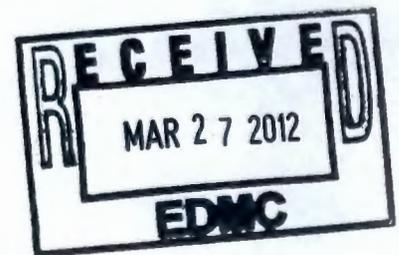


[0093289]

FINAL

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



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

Page	Topic	Leads
1	Statistics / Status	James Lynch / Dan McDonald / Jeff Lyon
3	SST Retrieval and Closure – D-00B-01, -02, -03, -04	Chris Kemp / Jeff Lyon
5	Tank Waste Retrieval Work Plan (TWRWP) Status – Consent Decree Appendix C	Chris Kemp / Jeff Lyon
6	SST Retrieval Monthly and Fiscal Year EVMS Data	Janet Diediker / Jeff Lyon
8	WTP - Immobilization Plant Project – D-00A-06, D-00A-17, D-00A-01	Delmar Noyes / Dan McDonald
10	WTP Pretreatment (PT) Facility – D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald
13	High-Level Waste (HLW) Facility – D-00A-20, -21, 02, 03	Gary Olsen / Dan McDonald
15	Low-Activity Waste (LAW) Facility – D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald
18	Balance of Facilities (BOF) – D-00A-12	Jason Young / Dan McDonald
20	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-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		On-going
**D-00C-02R	Submit to Ecology and Oregon Monthly Summary Reports	04/30/12		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. Initiated field activities for installation of ventilation system and removal of legacy equipment in C-101 and C-102.
3. Completed the design for installation of Modified Sluicing systems for C-101 and C-102.
4. Continued with design and procurement for C-104 Hard Heel Removal equipment.
5. Initiated construction activities for removal of equipment at C-105, to support Large Riser installation.
6. Continued Hard Heel Removal activities with the addition of 9,000 gallons of caustic solution in C-108 and periodic recirculation of the caustic.
7. Continued design and procurement for C-109 Hard Heel Removal equipment.
8. Continued with AN-106 pump replacement.
9. Continued with sampling efforts on C-111 using a Ramon Spectrometer, as a prototype.
10. Continued with C-112 retrieval operations.

Significant Planned Activities in the Next Six Months:

1. Complete the installation of the C-101 ventilation system and removal of legacy equipment.
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 C-107 bulk retrieval.
6. Complete hard heel retrieval of C-108.
7. Complete C-112 bulk retrieval.
8. Complete discussions with Ecology on the retrieval certificate of completion.
9. 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-103	Retrieval Completed				
C-104	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-
C-105	RPP-22520	Early Spring 2012	MARS-V	-	-
C-106	Retrieval Completed				
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.

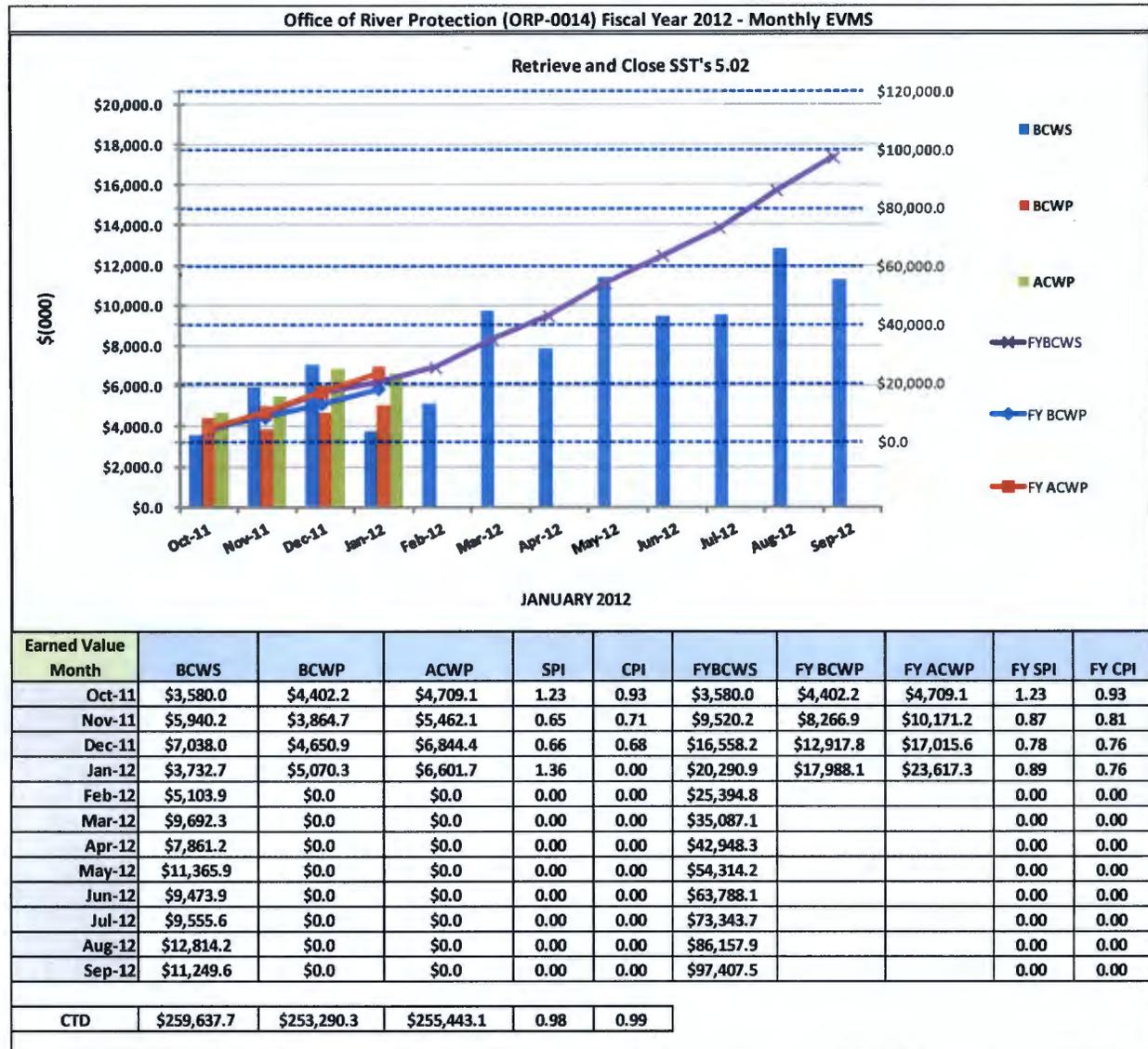
Significant Planned Activities in the Next 6 Months:

Work with Ecology on RPP-22520.

Issues:

None.

SST Retrieval Monthly and Fiscal Year EVMS Data



Single-Shell Tanks

Schedule Variance:

The favorable schedule variance is primarily due to:

- The status for work performed was incorrectly reported for procurement activities in the first quarter. This was corrected in January which resulted in a one-time adjustment creating a positive current month variance. There was no change to fiscal year reporting of earned value management data. In addition schedule recovery on retrieval system installation progressed.
- C-105 schedule recovery for retrieval design and engineering activities. The Heel Pit Removal ECN was completed, 12" Riser Calculations were completed, and significant progress was made on the Large Riser Installation design.

- C-108 retrieval schedule recovery progress for the Hard Heel Removal Operations that was scheduled for completion in fiscal year 2011.
- C-112 retrieval schedule progress for activities that were scheduled to complete in December 2011.

Cost Variance:

The unfavorable cost variance is primarily due to:

- C-112 retrieval operation due to cold weather impacts including shutdown of ventilation systems and thermocouple temperature monitoring requirements, and difficulty sluicing the hard surface of the waste. Final costs were received for work that was previously completed for startup and readiness and system installation. (CM costs with no BCWP earned as work is complete).
- C-107 retrieval operation and exhauster refurbish activities. The supernate pump at receiver tank AN-106 failed during operation and retrieval operation was discontinued. Unplanned maintenance/repair/troubleshooting activities were performed. In addition, the exhauster refurbish construction subcontractor submitted a contract change for additional cost incurred while performing refurbishment activities. The unplanned costs were negotiated, accepted, and paid.
- C-108 hard heel removal cost impacts due to additional samples needed to determine the effectiveness of extended recirculation/water washing.
- C-111 due to the difficulties associated with obtaining waste data using the Raman Probe due to a bent four-inch riser.

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 3,883 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 787 craft, 600 non-manual, and about 180 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of January 2012, the project was 63 percent complete overall, design and engineering was 84 percent complete, procurement was 68 percent complete, construction was 60 percent complete, and startup and commissioning was 14 percent complete.

The overall WTP Project schedule variance in January was a positive \$11.1M; the cost variance was a negative \$25.4M. The cost variance was primarily related to Engineering Design, Construction Crafts, Plant Equipment, and Construction Subcontracts; and the schedule variance was primarily related to Plant Equipment, Bulk Materials, and Construction Subcontracts.

Following is the status through the end of January 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 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" currently being revised, in support of site start-up

Significant Planned Actions in the Next Six Months:

- Complete erection of 4th-tier structural steel in PT (77ft to 98ft elevation)
- Perform Large Scale Integrated Testing (LSIT) in 4ft and 8ft vessels for the Validation and Verification (V&V) of Computational Fluid Dynamics (CFD) program to resolve mixing issues
- Set in-place two piping modules (PA07 upper, PA01 lower) in the PT black cells
- Receive Plant Wash and Drains vessel for HLW (RLD-VSL-8)
- 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:

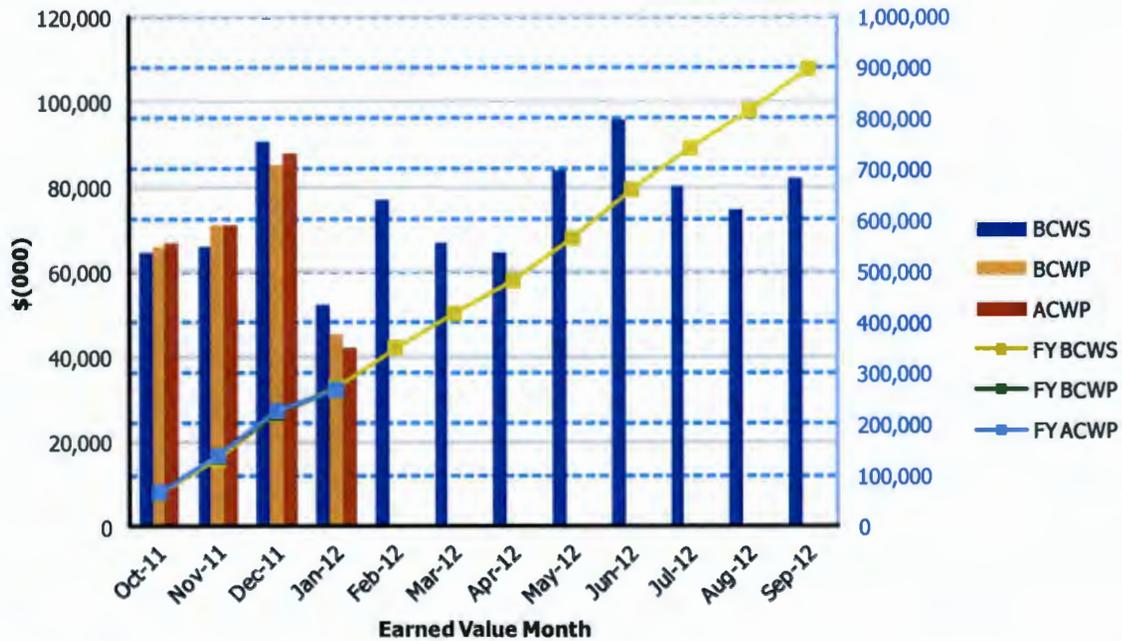
- PT and HLW Facilities: Other issues have potential impacts on the PTF and HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the PTF and HL.
- No significant technical issues in LAW, LAB or BOF at this time

Data Set: FY 2012 Earned Value Data

Data as of: January 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	\$76,818			0.00		\$349,823			0.00	
Mar 2012	\$66,635			0.00		\$416,458			0.00	
Apr 2012	\$64,587			0.00		\$481,045			0.00	
May 2012	\$83,766			0.00		\$564,811			0.00	
Jun 2012	\$95,717			0.00		\$660,528			0.00	
Jul 2012	\$80,199			0.00		\$740,727			0.00	
Aug 2012	\$74,342			0.00		\$815,069			0.00	
Sep 2012	\$81,928			0.00		\$896,996			0.00	
PTD	\$6,736,753	\$6,747,843	\$6,773,235	1.00	1.00					

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 January 2012, the PT Facility is 52 percent complete overall, with engineering design 79 percent complete, procurement 50 percent complete, construction 42 percent complete, and startup and commissioning was 4 percent complete.

Significant Past Accomplishments:

On-going work includes installation of rebar and embedded conduit for the placement of Control Building basemat and 98ft elevation slabs, black cell piping, drain piping, cable trays and supports, 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 nearly completed, and are showing positive results. Fabrication is progressing well for the test equipment for the "Medium" scale aerosol testing to be conducted at the same facility in March 2012.

BNI is actively working to resolve issues regarding vessel material selection and mixing. The first Pulse Jet Mixer (PJM) array has been placed in the 8' vessel in support of the Verification and Validation (V&V) testing for Computational Fluid Dynamics (CFD). Tests are forecasted to start in March 2012. Overall all five of the deliverables, due to the Defense Nuclear Facilities Safety Board (DNFSB) in January/February 2012, were submitted in accordance with the Implementation Plan (IP) for the DNFSB 2010-2 recommendation.

DOE-ORP has obtained Ecology approval of the Dangerous Waste Permit packages to proceed with the alteration of the on-site vessels FRP-2A/B/C/D and UFP-62A/B/C. In addition, DOE-ORP has obtained State of Washington, Department of Ecology (Ecology) approval to proceed with the Cesium Ion Exchange (CXP) system redesign within the DWP. Issued re-committed system design documents for the Plant Wash and Disposal (PWD) system.

The PT critical path primarily flows through installation of the Lag Storage and Feed Blending Process vessel, HLP-22. The next critical path flows through the Pretreatment Vessel Vent Process (PVP) system design, equipment procurement, and construction. The tertiary critical path flows through the setting of Ultra filtration Process vessel UFP-2A and the construction build out in black cell planning area 3. Construction and equipment procurement has been slowed due to funding constraints in FY 2012.

Significant Planned Actions in the Next Six Months:

- Continue erection of 4th tier structural steel (77ft to 98ft elevation)
- Set in-place 2 piping modules (PA07 upper, PA01 lower) in the black cells
- Set hot cell vertical door drive mechanism replacement gearbox and switch
- Complete aerosol testing to determine entrainment coefficient for the PVV system
- Complete placements for the Control Building basemat, and make initial 98 foot elevation slab placements
- Complete fabrication of Lag Storage and Feed Blending Process (HLP) vessels-27A/B
- 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:

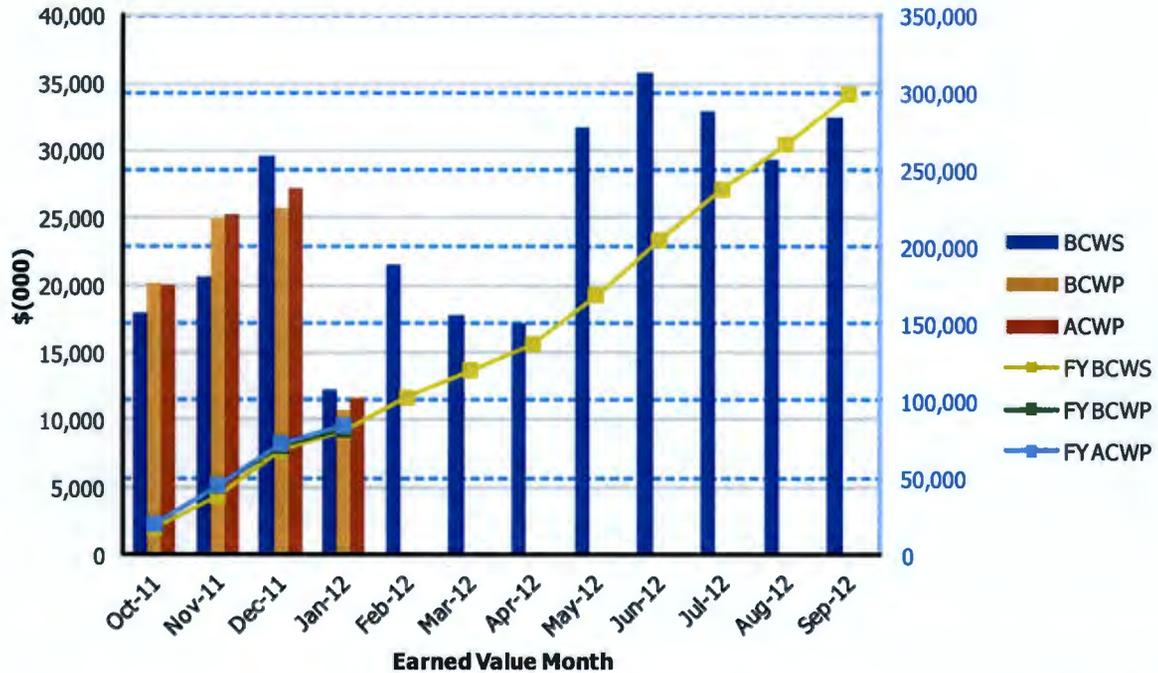
* Other issues have potential impacts on the PT schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the PTF.

Data Set: FY 2012 Earned Value Data

Data as of: January 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	\$21,466			0.00		\$101,889			0.00	
Mar 2012	\$17,804			0.00		\$119,693			0.00	
Apr 2012	\$17,121			0.00		\$136,815			0.00	
May 2012	\$31,749			0.00		\$168,564			0.00	
Jun 2012	\$35,807			0.00		\$204,371			0.00	
Jul 2012	\$32,977			0.00		\$237,348			0.00	
Aug 2012	\$29,294			0.00		\$266,642			0.00	
Sep 2012	\$32,525			0.00		\$299,167			0.00	

PTD	\$1,323,597	\$1,330,977	\$1,304,594	1.01	1.02
-----	-------------	-------------	-------------	------	------

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 from the Pretreatment (PT) Facility. The concentrate is 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 are sealed and decontaminated prior to shipment to interim storage. The HLW Facility is 58 percent complete overall, with engineering design 86 percent complete, procurement 74 percent complete, construction 39 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 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 should arrive in Vancouver, WA April 1st. All dampers have been fully welded out 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 Filter Cave Remote-Operated Dampers Installation
- 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:

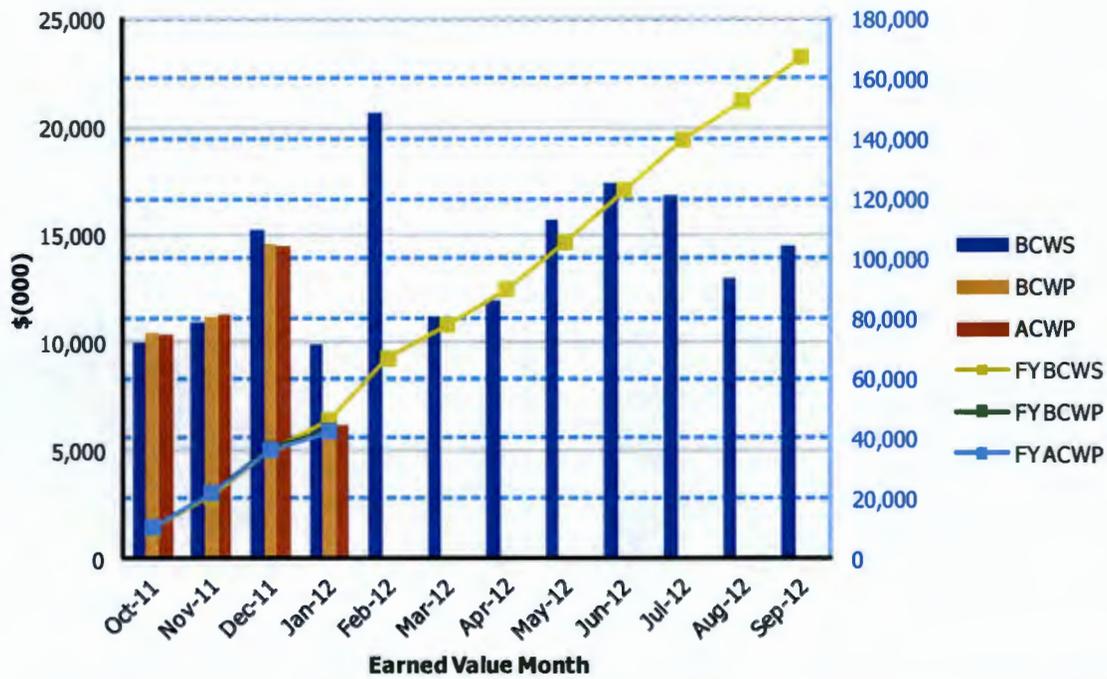
*Various issues may have potential impacts on the HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the HLW.

Data Set: FY 2012 Earned Value Data

Data as of: January 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	\$20,661			0.00		\$66,621			0.00	
Mar 2012	\$11,228			0.00		\$77,849			0.00	
Apr 2012	\$12,000			0.00		\$89,849			0.00	
May 2012	\$15,677			0.00		\$105,526			0.00	
Jun 2012	\$17,388			0.00		\$122,914			0.00	
Jul 2012	\$16,812			0.00		\$139,725			0.00	
Aug 2012	\$12,944			0.00		\$152,669			0.00	
Sep 2012	\$14,486			0.00		\$167,155			0.00	
PTD	\$875,454	\$874,052	\$867,335	1.00	1.01					

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 will be disposed on the Hanford Site in the Integrated Disposal Facility. The LAW Facility is 67 percent complete overall, with engineering design 86 percent complete, procurement 86 percent complete, construction 68 percent complete, and startup and commissioning is four percent complete.

Significant Past Accomplishments:

Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. For example, a functional diagram for C5V system High-Efficiency Particulate Air (HEPA) filter instrumentation was issued. The Dangerous Waste Permit (DWP) package LAW-027 was delivered to the Washington State Department of Ecology. A logic diagram for solenoid valves for mercury analysis in the mercury mitigation equipment was issued. Piping isometric drawings for the Radioactive Liquid Waste Disposal (RLD) system were issued. A confirmed calculation for the LAW Stack Drain Line Hazards was issued (LAW primary off-gas process (LOP) system). Several architectural room finishing schedules were issued. Piping support drawings were issued for the Chilled Water (CHW) system, LAW Secondary Off-gas/Vessel Vent Process (LVP) system, and the LAW Melter Feed Process (LFP) system.

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 melter refractory subcontract was awarded.

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 hoist and the trolley/bogie cars for the LFH system continued. The architectural specialties subcontractor started mobilizing to the site and laying out walls. Construction activities were initiated to pull Melter #1 into its final position and pin it in place in order to begin piping, hose, and electrical trial fit-ups prior to arrival of the melter refractory. Other on-going construction activities included installation of a robotic arm for the Autosampler (ASX) system, HEPA damper and exhaust ductwork, pour cave monorail hoists for the Container Pour Handling (LPH) system, the buffer storage crane, Low-Voltage Electrical (LVE) equipment, and heat exchangers/tanks next to the melters. Alignment of the bogie car rails was completed.

Several software system related documents were issued in February including: *System Design Document for LAW Concentrate Receipt Process (LCP) System, LAW Container Export Handling (LEH) System Software Acceptance Test, LAW LOP [LAW Primary Off-Gas Process] System Software Acceptance Test Report, and LAW LCP [LAW Concentrate Receipt Process System] Software Acceptance Test.* Integrated Control Network (ICN) development continued with software design and testing for the following systems:

- Melter Feed Process (LFP)
- Container Finishing Handling (LFH)
- Auto Sampling (ASX)
- Container Pour Handling (LPH)
- Secondary Offgas/Vessel Vent Process (LVP)
- Container Export Handling (LEH)
- Concentrate Receipt Process (LCP)
- Non-radioactive Liquid Waste Disposal (NLD)
- LAW Melter Process (LMP)
- LAW Primary Offgas Process (LOP)

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:

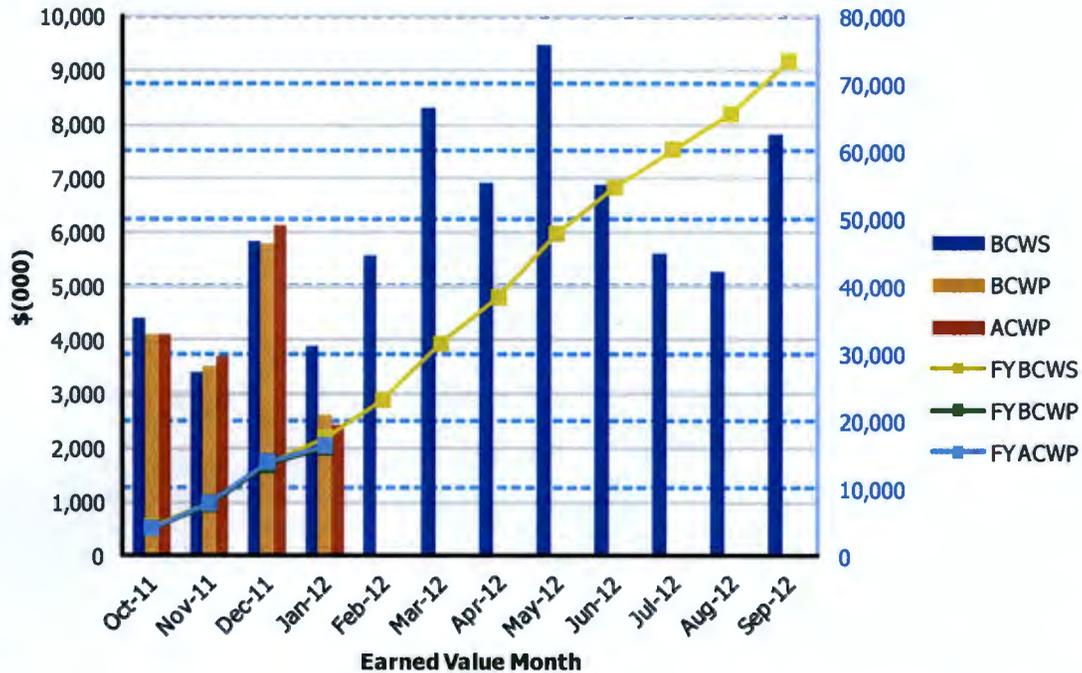
No major issues at this time.

Data Set: FY 2012 Earned Value Data

Data as of: January 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	\$5,573			0.00		\$23,105			0.00	
Mar 2012	\$8,317			0.00		\$31,421			0.00	
Apr 2012	\$6,920			0.00		\$38,341			0.00	
May 2012	\$9,462			0.00		\$47,804			0.00	
Jun 2012	\$6,892			0.00		\$54,696			0.00	
Jul 2012	\$5,606			0.00		\$60,303			0.00	
Aug 2012	\$5,257			0.00		\$65,560			0.00	
Sep 2012	\$7,821			0.00		\$73,381			0.00	
PTD	\$654,116	\$653,311	\$698,879	1.00	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 48 percent complete overall, with engineering design 72 percent complete, procurement 47 percent complete, and construction 63 percent complete, startup and commissioning was 8 percent complete.

Significant Past Accomplishments:

The BOF team continues to focus on facility completion, turnover, and startup. With eight facilities scheduled for turnover to startup by the end of FY2013, the focus is shifting to individual facility requirements within BOF.

The WTP site switchgear buildings (87 and 91) and Chiller Compressor Plant (CCP) are two areas with increased work activity and management oversight. Weekly meetings are being held to support completion of the CCP and planning for the start-up of Building 87. In support of site start-up, Interface Control Document (ICD) 11 “Interface Control Document for Electricity” is currently being revised, and all parties are preparing for start-up of Building 87 via the A6 substation this calendar year. DOE recently toured the A6 substation along with BNI and MSA representatives.

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

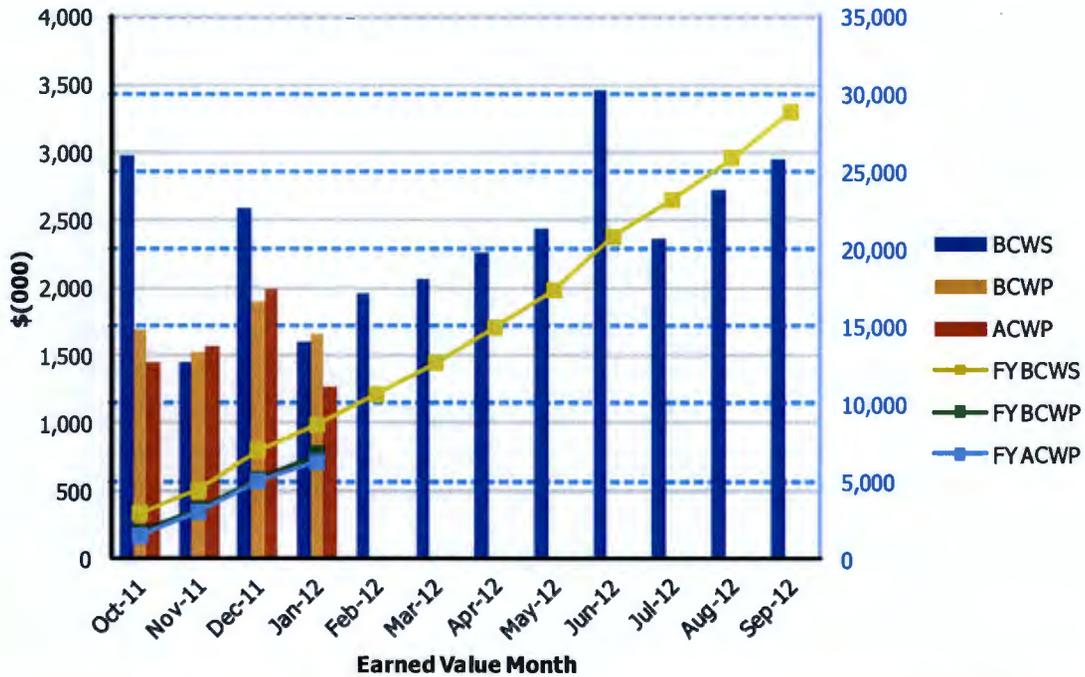
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: January 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	\$1,964			0.00		\$10,590			0.00	
Mar 2012	\$2,060			0.00		\$12,650			0.00	
Apr 2012	\$2,256			0.00		\$14,907			0.00	
May 2012	\$2,444			0.00		\$17,351			0.00	
Jun 2012	\$3,461			0.00		\$20,812			0.00	
Jul 2012	\$2,356			0.00		\$23,168			0.00	
Aug 2012	\$2,727			0.00		\$25,895			0.00	
Sep 2012	\$2,946			0.00		\$28,841			0.00	

PTD	\$262,468	\$258,867	\$255,317	0.99	1.01
-----	-----------	-----------	-----------	------	------

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 Hanford Tank Waste Treatment and Immobilization (WTP) operations by analyzing feed, vitrified waste, and effluent streams. The LAB is 51 percent complete overall, with engineering design 78 percent complete, procurement 75 percent complete, construction 77 percent complete, and startup and commissioning was 10 percent complete.

Significant Past Accomplishments:

Efforts of the LAB team continue to be focused on completion of 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, and the detail/finishing work continues with emphasis on installation of partition walls, laboratory cabinets, and fume hoods. Installation of these interior commodities provides an opportunity to better understand the layout of individual rooms and the overall facility.

Modifications are in progress for the HVAC system to support installation of test ports and relocation of electrical equipment originally destined for the WTP administrative building. The additional HVAC load of the relocated equipment resulted in substantial changes to the HVAC system and pushed the targeted system completion date approximately 2 months. The milestone schedule however, continues to be on target.

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.

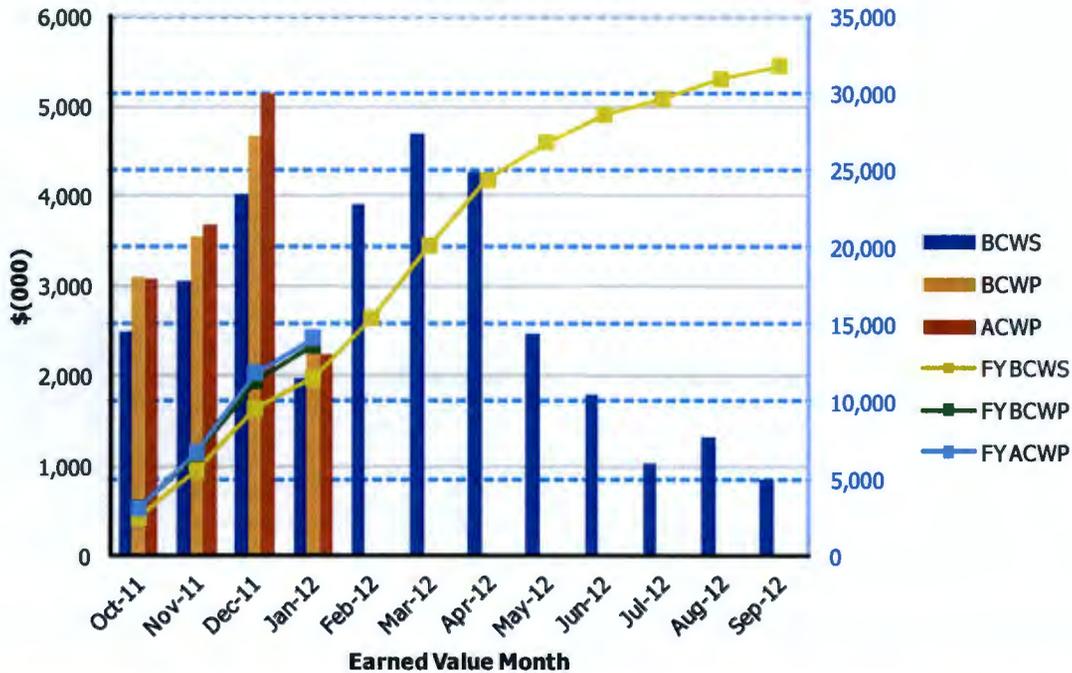
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: January 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	\$3,893			0.00		\$15,397			0.00	
Mar 2012	\$4,687			0.00		\$20,084			0.00	
Apr 2012	\$4,259			0.00		\$24,343			0.00	
May 2012	\$2,468			0.00		\$26,811			0.00	
Jun 2012	\$1,798			0.00		\$28,608			0.00	
Jul 2012	\$1,024			0.00		\$29,632			0.00	
Aug 2012	\$1,309			0.00		\$30,941			0.00	
Sep 2012	\$838			0.00		\$31,779			0.00	
PTD	\$181,306	\$182,106	\$194,882	1.00	0.93					

Waste Treatment Plant Project - Percent Complete Status

Through January 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	972.3	653.3	67%	238.1	205.9	86%	240.7	207.3	86%	344.7	233.6	68%	148.8	6.5	4%
Analytical Lab	356.6	182.1	51%	57.4	44.1	77%	56.2	42.1	75%	107.4	82.4	77%	135.5	12.9	10%
Balance of Facilities	536.6	258.9	48%	88.4	63.5	72%	81.3	38.5	47%	230.8	145.8	63%	136.1	11.1	8%
High-Level Waste	1,507.2	874.1	58%	350.3	301.9	86%	457.7	338.7	74%	581.4	228.8	39%	117.8	4.7	4%
Pretreatment	2,545.0	1,331.0	52%	743.7	586.5	79%	712.9	359.9	50%	905.7	377.7	42%	182.6	6.9	4%
Shared Services	4,732.6	3,448.5	73%	1,027.4	912.9	89%	472.2	386.6	82%	1,428.4	1,089.7	76%	455.9	125.7	28%
Total WTP w/o UB	10,650.2	6,747.8	63%	2,505.3	2,114.7	84%	2,021.0	1,373.1	68%	3,598.4	2,158.0	60%	1,176.8	167.8	14%
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,650.2	6,747.8	63%	2,505.3	2,114.7	84%	2,021.0	1,373.1	68%	3,598.4	2,158.0	60%	1,176.8	167.8	14%

Source: WTP Contract Performance Report - Format 1, Data for January 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 BNI'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.