
FINAL

Office of River Protection
Consent Decree 08-5085-FVS
Monthly Summary Report
November 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-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	09/29/12	Completed
Fiscal Year 2013				
D-00C-02X	Submit to Ecology & State of Oregon Monthly Summary Report	10/31/2012	10/31/2012	Completed
D-00C-02Y	Submit to Ecology & State of Oregon Monthly Summary Report	11/30/2012		On-going
**D-00C-02Z	Submit to Ecology & State of Oregon Monthly Summary Report	12/31/2012		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

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2013 Continued				
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	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.

D-00B-02, Advise Ecology of the 9 SSTs from which Waste Will Be Retrieved by 2022, Due: 9/30/2014, Status: Completed on 08/24/2011.

D-00B-03, Initiate Startup of 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 Operational Acceptance Testing for C-101 and C-102 Modified Sluicing Retrieval system.
2. Initiated installation of replacement pump for AN-101.
3. Initiated planning for replacement of failed pump for AN-106.
4. Continued construction activities for removal of equipment at C-105 to support large riser installation.

Significant Planned Activities in the Next Six Months:

1. Complete start up of the modified sluicing system in C-101.
2. Complete start up of the modified sluicing system in C-102.
3. Complete removal of equipment/pit at C-105.
4. Complete installation of the large riser in C-105.
5. Complete C-107 hard heel retrieval.
6. Submit retrieval certificates of completion for C-104, C-108, and C-109 to Ecology.

Issues:

None.

Tank Waste Retrieval Work Plan (TWRWP) Status

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 7	Complete	MRS (per 10/7/10 agreement, to be Modified Sluicing)	High-Pressure Water with ERSS	-
C-102	RPP-22393, Rev. 6A	In Process	Modified Sluicing	High-Pressure Water with ERSS	-
C-104	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-105	RPP-22520, Rev. 7	Complete	MARS-V	High pressure water spray/M A RS platform	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-High Pressure	-
C-108	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Dissolution	-
C-110	RPP-33116, Rev. 2	In process	Modified Sluicing	None (to be revised to In-Tank Vehicle)	-
C-111	RPP-37739, Rev. 1	In process	Modified Sluicing	None (to be revised to In-Tank Vehicle)	-
C-112	RPP-22393, Rev. 6A	In process	Modified Sluicing	Chemical Dissolution	-

Significant Accomplishments

None.

Significant Planned Activities in the Next 6 Months:

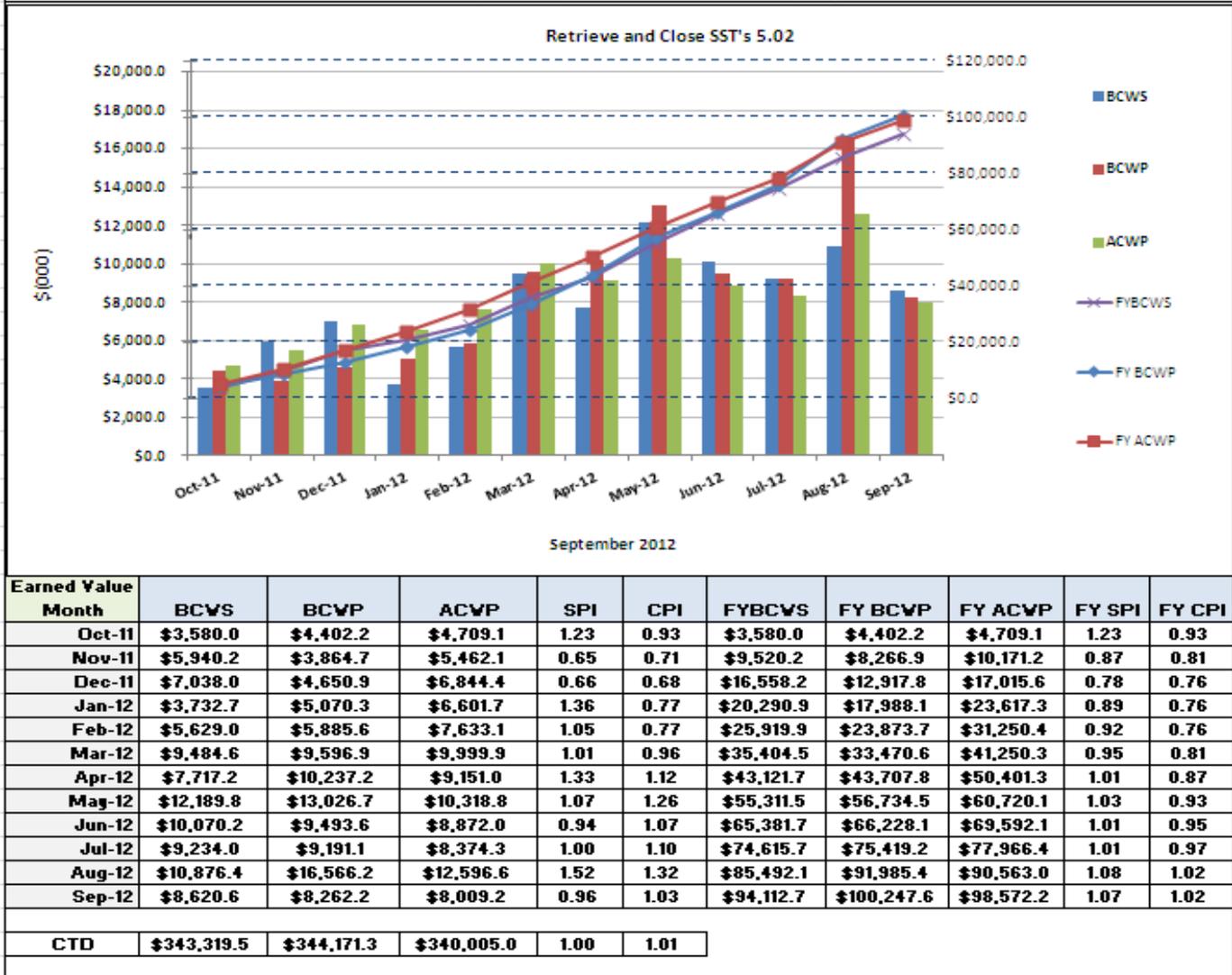
Work with Ecology on updates to TWRWPs RPP-22393, RPP-33116, and RPP-37739 for tanks C-102, C-110, C-111, and C-112.

Issues:

None.

SST Retrieval Monthly and Fiscal Year EVMS Data

Office of River Protection (ORP-0014) Fiscal Year 2012 - Monthly Project Performance



Single-Shell Tanks

Cost Variance (\$2,747K):

The unfavorable cost variance is primarily due to:

- Increased costs in C-107 relates to hard heel removal and tank retrieval operations, hard heel removal was not possible due to failure and pending replacement of the AN-106 supernate pump

The favorable CV was partially offset by:

- Efficiencies in C-Farm Infrastructure DST Receiver Tank 4, finishing the HIHTL replacement and starting the AN-101 pump replacement

Schedule Variance (\$358.4K):

The unfavorable schedule variance is primarily due to:

- Delay in resource allocation in C-112 sampling for the hard heel removal, sampling which resulted in a 4-month delay, work will be carried over to FY 2013

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 2425 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 610 craft, 452 non-manual, and 115 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of September 2012, the project was 66 percent complete overall, design and engineering was 87 percent complete, procurement was 73 percent complete, construction was 62 percent complete, and startup and commissioning was 15 percent complete. In September 2012, the Baseline Change Proposal that implemented the LBL re-plan was incorporated into the project baseline resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent complete values.

The cumulative to date WTP Project schedule variance in September was a positive \$4.3 M. The cumulative to date WTP Project cost variance was a negative \$66.2 M. The positive schedule variance was due to the LBL re-baseline; the negative cost variance was primarily related to engineering design and construction crafts.

The following is the status of project matters through the end of September:

Significant Past Accomplishments:

- Issued schedule to complete items in the erosion/corrosion action plan, as part of the Two-Year Work Plan. (PT)
- Bechtel completed the work associated with Consent Decree Milestone (D-00A-21) “Complete Construction of Structural Steel to 37’ in HLW Facility.” (HLW)
- Issued 3 stress calculations for the Secondary Offgas/Vessel Vent Process System. (LAW)
- Issued two control logic diagrams and six functional diagrams for the demineralized water system. (BOF)
- Completed electrical and mechanical installation scope on the C2 ventilation system air handling units at elevation +14’. (LAB)

Significant Planned Actions in the Next Six Months:

- Complete Hazards and Operability Analysis (HAZOP) for (PVP) system. (PT)
- Submit 37’ Structural Steel milestone completion notification to Ecology. (HLW)
- Complete installation of melter power supplies. (LAW)
- Complete installation of Auto Sampling (ASX system). (LAW)
- Complete construction of the WTP Cooling Tower. (BOF)
- Complete construction of WTP Chiller Compressor Plant. (BOF)
- Complete and closeout HVAC subcontract. (LAB)

Issues:

- Technical issues relevant to the PTF and HLW facilities include: pulse jet mixers; corrosion/erosion in piping and vessels; hydrogen accumulation; and waste feed 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.

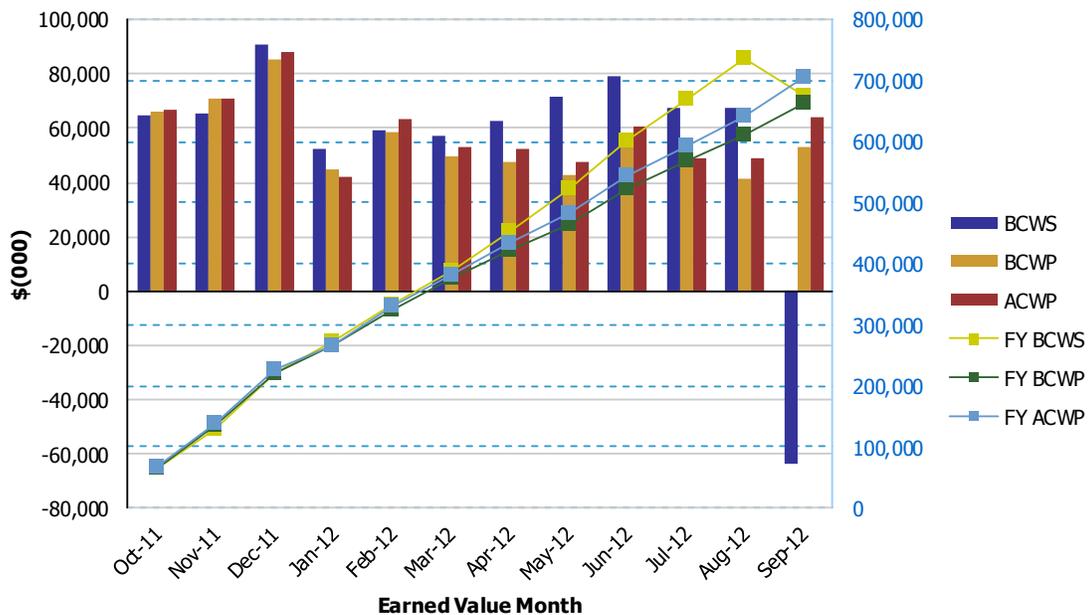
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: September 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	\$67,589	\$41,568	\$48,946	0.62	0.85	\$737,932	\$610,744	\$641,205	0.83	0.95
Sep 2012	(\$63,384)	\$53,169	\$63,828	-0.84	0.83	\$674,548	\$663,913	\$705,033	0.98	0.94
PTD	\$7,140,609	\$7,144,867	\$7,211,057	1.00	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 September 2012, the PT Facility was 56 percent complete overall, with engineering design 85 percent complete, procurement 56 percent complete, construction 43 percent complete, and startup and commissioning 3 percent complete. Additional work-scope is required to resolve outstanding technical issues, which will impact the engineering design percent complete status.

Significant Past Accomplishments:

Received the PT, HLW, Shared Services FY13 & FY14 Two-Year Work Plan. DOE is in the process of reviewing and providing comments.

BNI Engineering has established 5 Technical Review Teams to address PT and HLW technical issues: (1) Erosion/Corrosion, (2) Process Transfer/Evaporators/HPAV, (3) HVAC/PVV and Filter Technical Issues, (4) Fire/Flooding and E&NS Integration, and (5) Equipment Qualification.

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, vessel mixing technical issues, and hazards analysis.

A final report on the PVV system design (based on entrainment coefficient testing results) is expected to be issued in December 2012.

Issued a schedule, as part of the Two-Year Work Plan, to complete items listed in the erosion/corrosion action plan. The Independent Review Team report was issued for review. A corrosion test scoping document is planned to be issued in December 2012 to address the material selection issue.

Progress on the 14 foot large scale mixing test platform included procurements released for the vessel and vessel heads, and the start of on-site tower steel erection.

Updated the Implementation and Closure Path to DNFSB concerns on plugging.

Completed CXP system margin assessment.

Significant Planned Actions in the Next Six Months:

- Complete Hazards and Operability Analysis (HAZOP) for (PVP) system
- 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
- Issue Process Corrosion Data Sheet – Volume 3

Issues:

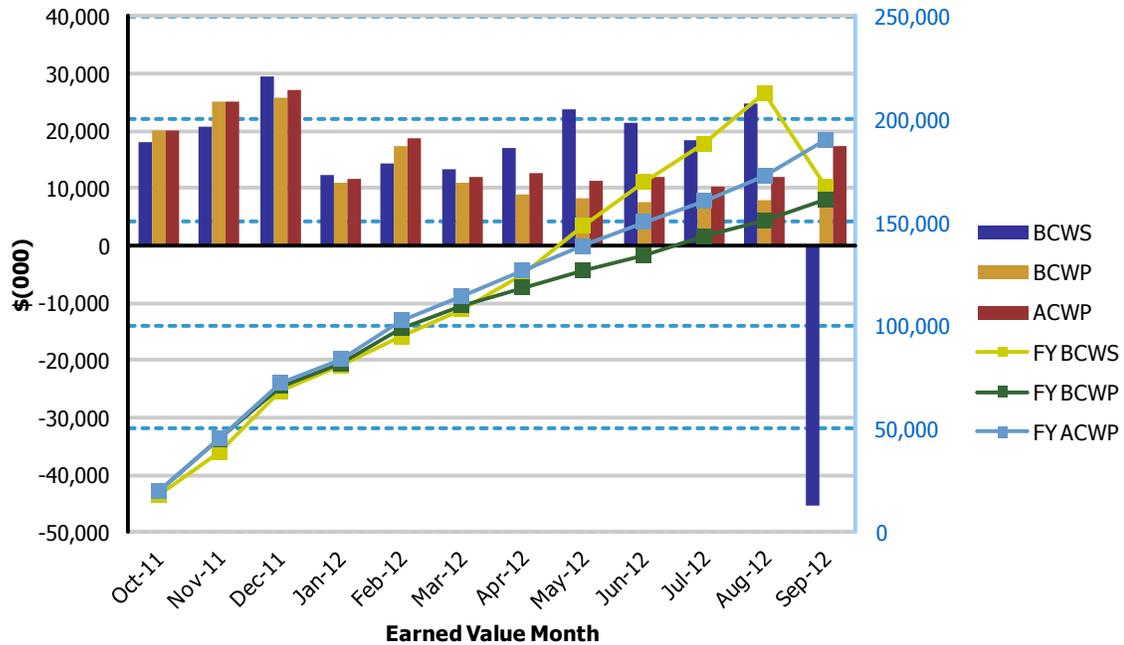
* Technical issues relevant to the PTF and HLW facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

Data Set: FY 2012 Earned Value Data

Data as of: September 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	\$24,563	\$7,773	\$12,063	0.32	0.64	\$212,654	\$150,817	\$172,639	0.71	0.87
Sep 2012	(\$45,359)	\$10,152	\$17,215	-0.22	0.59	\$167,295	\$160,969	\$189,854	0.96	0.85
PTD	\$1,410,467	\$1,410,467	\$1,410,467	1.00	1.00					

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. As of September 2012, the HLW Facility is 62 percent complete overall, with engineering design 89 percent complete, procurement 81 percent complete, construction 43 percent complete, and startup and commissioning is 4 percent complete.

Significant Past Accomplishments:

Received the PT, HLW, Shared Services FY13 & FY14 Two-Year Work Plan. DOE is in the process of reviewing and providing comments.

Bechtel completed the work associated with Consent Decree Milestone (D-00A-21) "Complete Construction of Structural Steel to 37' in HLW Facility." (HLW)

Testing was performed to determine the performance of the radial HEPA filter media when exposed to combined conditions of filter loading, temperature and humidity. The testing showed failure under combined conditions. DOE has received a schedule for resolving the HEPA filter requirements. Bechtel is working with potential vendors to gain interest in producing prototype filters that will meet operating conditions. Once the vendors are selected, the redesigned filters will be tested and the best option selected; the winning design will then go through qualifying testing for use in WTP.

75% of the concrete has been poured in the facility with 25% of the concrete in the 58ft elevation walls. Four walls/slabs were placed in September.

Bechtel noted a number of weld deficiencies on Plant Wash and Drain Vessel (RLD-VSL-08). Bechtel and DOE met to discuss a path forward and Bechtel and the vendor are working to develop a detailed Repair Plan. BNI has issued direction to the vendor to make the vessel compliant with the purchase order requirements for undercut and weld size.

Bechtel continues the Reliability Validation Process (RVP) to address the DOE level 1 finding on Systemic Integrated Management Performance Concerns. During the RVP, Bechtel will be conducting in-depth system reviews on critical systems. The systems under review for HLW are Radioactive Liquid Waste Disposal System (RLD), HLW Melter Offgas Treatment Process System (HOP), and HLW Melter Feed Process System (HFP).

Significant Planned Actions in the Next Six Months:

- Confirm completion of 37' Structural Steel milestone
- Review supplier prequalification packages to determine bidder list for HEPA filter redesign
- Award contract(s) for prototype design/fabrication for HEPA filter redesign
- Complete RVP reviews
- Complete the first of the two Authorization Basis Amendment Requests (ABARs) to support Preliminary Documented Safety Analysis (PDSA) upgrade – focus of the first ABAR is to incorporate changes in the facility and control descriptions
- Finish all concrete slabs at the 37' level

Issues:

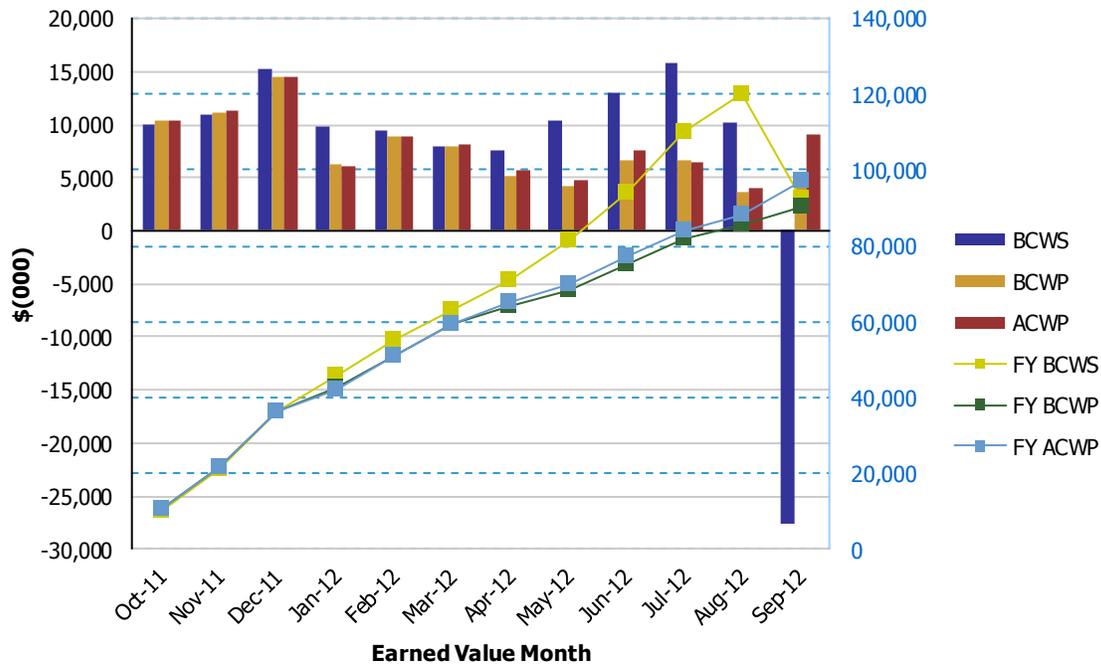
* Various issues may have potential impacts on the HLW schedule. This includes risks that the project has already realized and the plans for addressing the remaining risks in the HLW.

Data Set: FY 2012 Earned Value Data

Data as of: September 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	\$10,113	\$3,578	\$4,092	0.35	0.87	\$120,189	\$85,317	\$88,049	0.71	0.97
Sep 2012	(\$27,549)	\$5,187	\$9,025	-0.19	0.57	\$92,640	\$90,504	\$97,074	0.98	0.93
PTD	\$922,133	\$922,130	\$922,132	1.00	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 60 percent complete overall, with engineering design 76 percent complete, procurement 83 percent complete, construction 58 percent complete, and startup and commissioning is 4 percent complete.

Significant Past Accomplishments:

Issued three stress calculations for the Secondary Offgas/Vessel Vent Process System (LVP). Remaining LVP system isometric (ISO) and pipe support drawings have been issued. ISOs have been received by vendor and ready for fabrication.

Procurement activities for the LAW facility continue to be focused on the LVP system components including the pre-heaters, caustic scrubber, and thermal catalytic oxidizer. Engineering continued to place an emphasis on the review of vendor calculations and vendor interactions during the ongoing procurement of LVP system components.

Construction activities for the LAW facility are currently focused on the facility partition wall installation and material installation for the melter refractory walls. This included installation of the two temporary 2.5 ton cranes. Reinforcement steel has been set in support of the placement of the concrete slab to support the condensate units.

Additional construction activities were initiated including installation of the electrical equipment in the annex; removal of the Melter #2 shield/gas barrier lid; plumbing lay out/roughing in the annex; installation of Low-Voltage Electrical (LVE) non-segmented bus ducts in chases; installation of piping in the process cells and cable tray/engineered supports in the north finishing line.

Significant Planned Actions in the Next Six Months:

- Complete installation melter power supplies
- Complete installation of Auto Sampling (ASX) system
- Begin installation of Melter #1 Refractory
- 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.

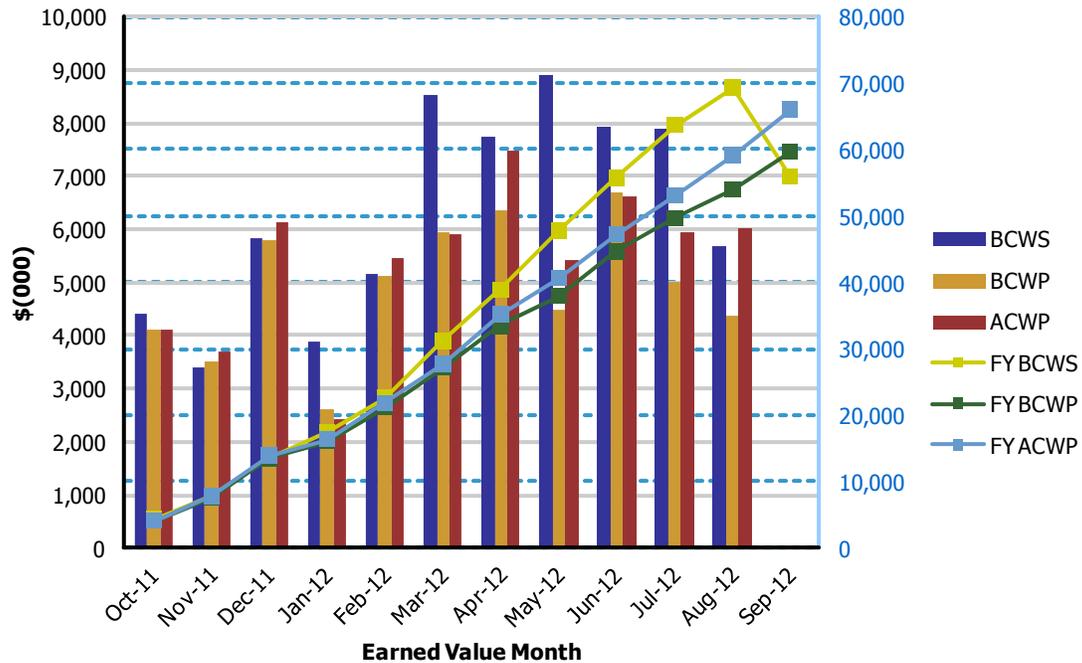
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: September 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	\$5,690	\$4,374	\$6,017	0.77	0.73	\$69,384	\$54,034	\$59,175	0.78	0.91
Sep 2012	* N/A	* N/A	* N/A	* N/A	* N/A	\$55,915	\$59,726	\$66,011	1.07	0.90

PTD	\$693,711	\$696,988	\$748,546	1.00	0.93
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*Monthly data affected by BNI point adjustment following LBL replan.

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 51 percent complete overall, with engineering design 75 percent complete, procurement 60 percent complete, construction 69 percent complete, and startup and commissioning is 8 percent complete.

Significant Past Accomplishments:

Efforts remain focused on identification of individual facility requirements within BOF to support facility completion, and turnover to the startup organization. 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 conducted, and continues to conduct, a weekly or bi-weekly meeting. These meetings focus on schedule reviews and punch list development for the remaining construction activities. Regular meetings continue to be held for the Steam Plant, WTP site switchgear buildings (87 and 91), and Chiller Compressor Plant (CCP).

Recent accomplishments for the BOF team are:

- Issued two control logic diagrams and six functional diagrams for the demineralized water system
- Issued isometric drawings for the sodium hydroxide reagent (SHR) system and the steam condensate water (SCW) systems
- Issued confirmed calculations for the switchgear building 87 vault, and foundation
- Completed coatings on the NLD system at the Water Treatment Plant
- Completed coating floor in the Chiller Compressor Plant

Significant Planned Actions in the Next Six Months:

- Complete construction of the WTP Cooling Tower
- Complete construction of the BOF switchgear building
- Complete Construction of the WTP Chiller Compressor Plant
- Turning over the WTP switchgear building (Bldg 87) from construction to the startup organization
- Remaining activities to complete Consent Decree Milestone (A-012) “Steam Plant Construction Complete” are ongoing and scheduled to be completed in November 2012

Issues:

- Post Install Anchors inspection records indicate some anchors may have been installed incorrectly, BNI reviewing installation.

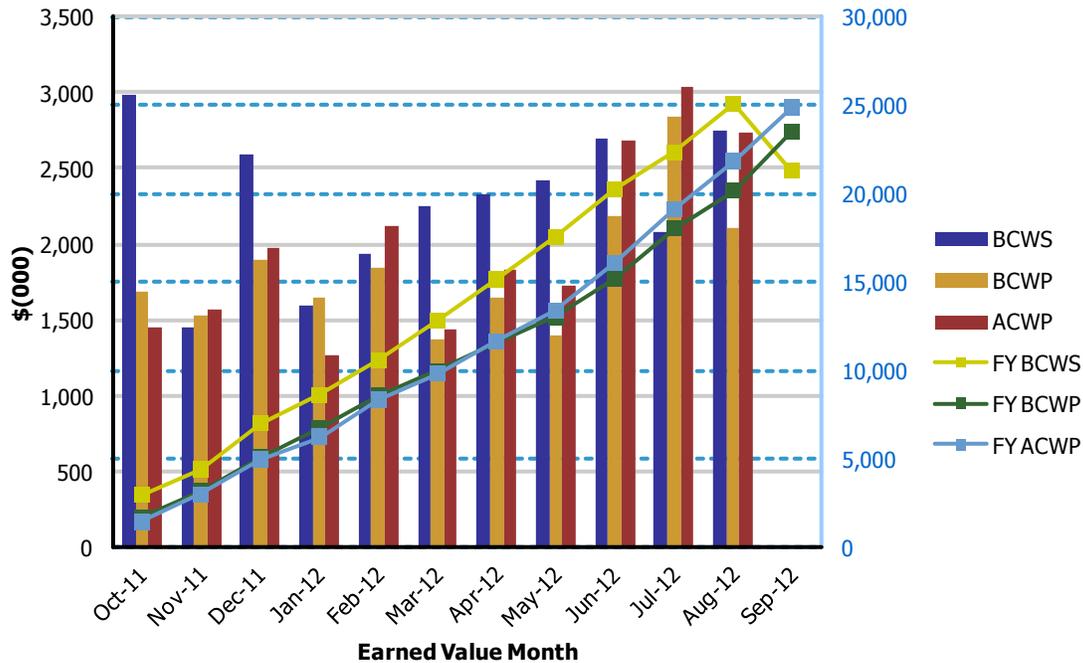
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: September 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	\$2,755	\$2,106	\$2,730	0.76	0.77	\$25,093	\$20,155	\$21,843	0.80	0.92
Sep 2012	N/A	N/A	N/A	N/A	N/A	\$21,279	\$23,474	\$24,874	1.10	0.94

PTD	\$275,748	\$275,585	\$273,931	1.00	1.01
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*Monthly data affected by BNI point adjustment following LBL replan.

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 64 percent complete overall, with engineering design 72 percent complete, procurement 81 percent complete, construction 75 percent complete, and startup and commissioning is 22 percent complete.

Significant Past Accomplishments:

The contractor continued efforts toward completion of Consent Decree Milestone (A-05) “LAB Construction Substantially Complete.” The current construction forecast finish date is November 30, 2012 and the Consent Decree compliance date is December 31, 2012. Work continues on completing punch list activities in support of construction substantially complete. Detail/finishing work continues within the individual analytical areas with emphasis on the installation of commodities to support laboratory cabinets and analytical equipment. Modifications to the HVAC system are in progress, adding 20 expansion joints to the C5V system due to seismic story drift considerations.

Recent accomplishments for the LAB team are:

- Completion of electrical and mechanical installation scope on the C2 ventilation system air handling units at elevation +14’
- Installation of bottle racks for the breathing air system and the mixed gas system
- Skids SCW-SKID-0004A and SCW-SKID-0004B for the steam condensate water system
- Hotcell load-in glovebox

Significant Planned Actions in the Next Six Months:

- Installation of the instrumentation panels, cabinets, racks and cubicles
- Completion of the high purity gas systems subcontract
- Completion and closeout of the HVAC subcontract
- Progress Analytical Laboratory Construction to “Substantially Complete”

Issues:

- RLD Vessel 164 welds require significant rework
- Seismic Story Drift analysis required installation of bellows on some ventilation ducting
- Post Install Anchors inspection records indicate some anchors may have been installed incorrectly, BNI reviewing installation

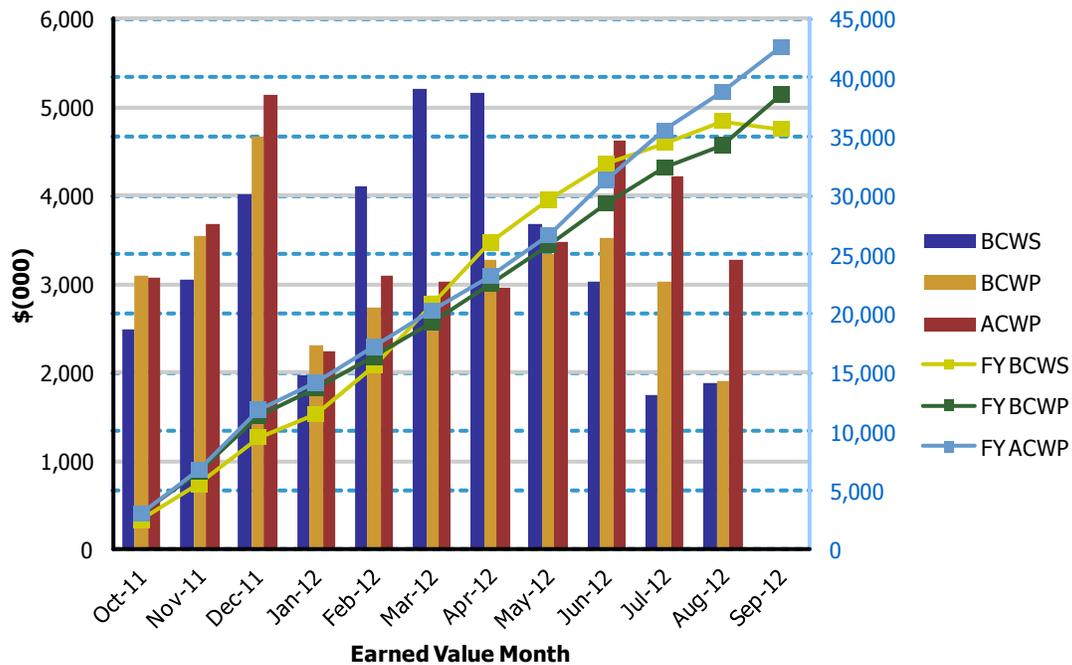
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2012 Earned Value Data

Data as of: September 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	\$1,887	\$1,915	\$3,278	1.01	0.58	\$36,335	\$34,317	\$38,812	0.94	0.88
Sep 2012	N/A	N/A	N/A	N/A	N/A	\$35,648	\$38,603	\$42,587	1.08	0.91

PTD	\$205,926	\$207,072	\$223,356	1.01	0.93
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**Monthly data affected by BNI point adjustment following LBL replan.*

Waste Treatment Plant Project - Percent Complete Status Through September 2012															
(Dollars - Millions)	Overall Facility Percent Complete			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	1,165.4	697.0	60%	286.2	216.8	76%	258.7	213.8	83%	444.6	259.2	58%	175.9	7.2	4%
Analytical Lab	322.4	207.1	64%	68.5	49.2	72%	56.0	45.3	81%	131.9	98.3	75%	66.0	14.3	22%
Balance of Facilities	536.1	275.6	51%	88.5	66.8	75%	71.6	43.2	60%	223.0	153.5	69%	152.9	12.1	8%
High-Level Waste	1,478.6	922.1	62%	364.4	325.2	89%	433.9	349.4	81%	561.1	243.2	43%	119.2	4.4	4%
Pretreatment	2,517.3	1,410.5	56%	761.7	645.8	85%	679.9	380.4	56%	890.0	378.6	43%	185.8	5.6	3%
Shared Services	4,726.9	3,632.6	77%	1,047.0	977.9	93%	451.7	395.0	87%	1,436.5	1,143.0	80%	453.5	133.2	29%
Total WTP w/o UB	10,746.6	7,144.9	66%	2,616.2	2,281.6	87%	1,951.8	1,427.2	73%	3,687.1	2,275.8	62%	1,153.4	176.8	15%
Undistributed Budget	0.3	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,746.9	7,144.9	66%	2,616.2	2,281.6	87%	1,951.8	1,427.2	73%	3,687.1	2,275.8	62%	1,153.4	176.8	15%

Source - Preliminary WTP Contract Performance Report - Format 1, Data for September 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 1 of BM'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. 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. In September 2012, the LBL Replan was incorporated into the project baseline resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent complete values.