
FINAL

Office of River Protection
Consent Decree 08-5085-FVS

Monthly Summary Report

March 2013

Office of River Protection

**Consent Decree 08-5085-FVS
Monthly Summary Report**

March 2013 (Project EVMS reflects January 2013)

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

Milestone	Title	Due Date	Completion Date	Status
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	11/20/2012	Completed
D-00C-02Z	Submit to Ecology & State of Oregon Monthly Summary Report	12/31/2012	12/26/2012	Completed
D-00A-05	LAB Construction Substantially Complete	12/31/2012	12/31/2012	Completed
D-00A-12	Steam Plant Construction Complete	12/31/2012	12/31/2012	Completed
D-00A-21	Complete Construction of Structural Steel to EL. 37' in HLW Fac.	12/31/2012	10/24/2012	Completed
D-00C-01F	Submit to Ecology & State of Oregon Semi-Annual Report	01/31/2013	01/31/2013	Completed
D-00C-02AA	Submit to Ecology & State of Oregon Monthly Summary Report	01/31/2013	01/24/2013	Completed
D-00C-02AB	Submit to Ecology & State of Oregon Monthly Summary Report	02/28/2013	02/25/2013	Completed
D-00C-02AC	Submit to Ecology & State of Oregon Monthly Summary Report	03/31/2013		On-going
**D-00C-02AD	Submit to Ecology & State of Oregon Monthly Summary Report	04/30/2013		On-going
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.				
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
Fiscal Year 2014				
D-006-00-A	Meet Approximately Every 3 Years to Review Requirements of CD	10/25/2013		On-going
D-00B-01	Complete Retrieval of Tank Waste from 10 SSTs in WMA-C	09/30/2014		On-going
D-00B-02	Advise Ecology of the 9 SSTs Waste Will be Retrieved by 2022	09/30/2014	08/22/2011	Completed

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

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 operation of the modified sluicing system in C-101 using ERSS.
2. Completed the installation of the new AN-106 pump.
3. Completed field activities associated with repair of the C-107 MARS end effector high pressure spray water nozzle leak.
4. Completed initial training for the Fold-Track at the Cold Test Facility for future use at C-110 SST.
5. Transported the Fold-Track unit to C Farm for installation into C-110.
6. On 2/18/13 Ecology issued its concurrence with the ORP Retrieval Completion Certification Report documenting the completion of retrieval in single-shell tank 241-C-104 on August 17, 2012, using the modified sluicing and chemical dissolution technologies as described in the Tank Waste Retrieval Work Plan approved by Ecology on 9/20/11.

Significant Planned Activities in the Next Six Months:

1. Complete testing of the new AN-106 and utilize for MARS operation.
2. Begin start-up of the modified sluicing system in C-102.
3. Complete installation of the MARS-V in C-105.
4. Complete C-107 hard heel retrieval.
5. Submit retrieval certificates of completion for C-104, C-108, and C-109 to Ecology.
6. Begin start-up of hard heel retrieval in C-110 using the Fold-Track.

Issues:

1. DOE-ORP has delayed dome cut activities using the water/abrasive cutting technique for tank C-105 and has experienced delays to the planned schedule while resolution of an

issue through the Differing Professional Opinion process DOE O 442.2 is completed. DOE-ORP and its Contractor are evaluating the schedule impacts and possible mitigation actions for alternative cutting techniques.

- DOE-ORP and its Contractor are reviewing whether the amount of sludge being stored in the tanks causes additional hazards due to gas generation and the potential that gas could be released within the headspace of the tank safely. While this issue is under review, controls have been put in place to limit the amount of sludge being added to the DSTs during C Farm retrieval.

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	MARS-High Pressure Water	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-High Pressure Water	-
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	Complete	Modified Sluicing	Mechanical Waste Conditioning	High Pressure Water
C-111	RPP-37739, Rev. 1	In process	Modified Sluicing	None	-
C-112	RPP-22393, Rev. 6A	In process	Modified Sluicing	Chemical Dissolution	-

Significant Accomplishments

None.

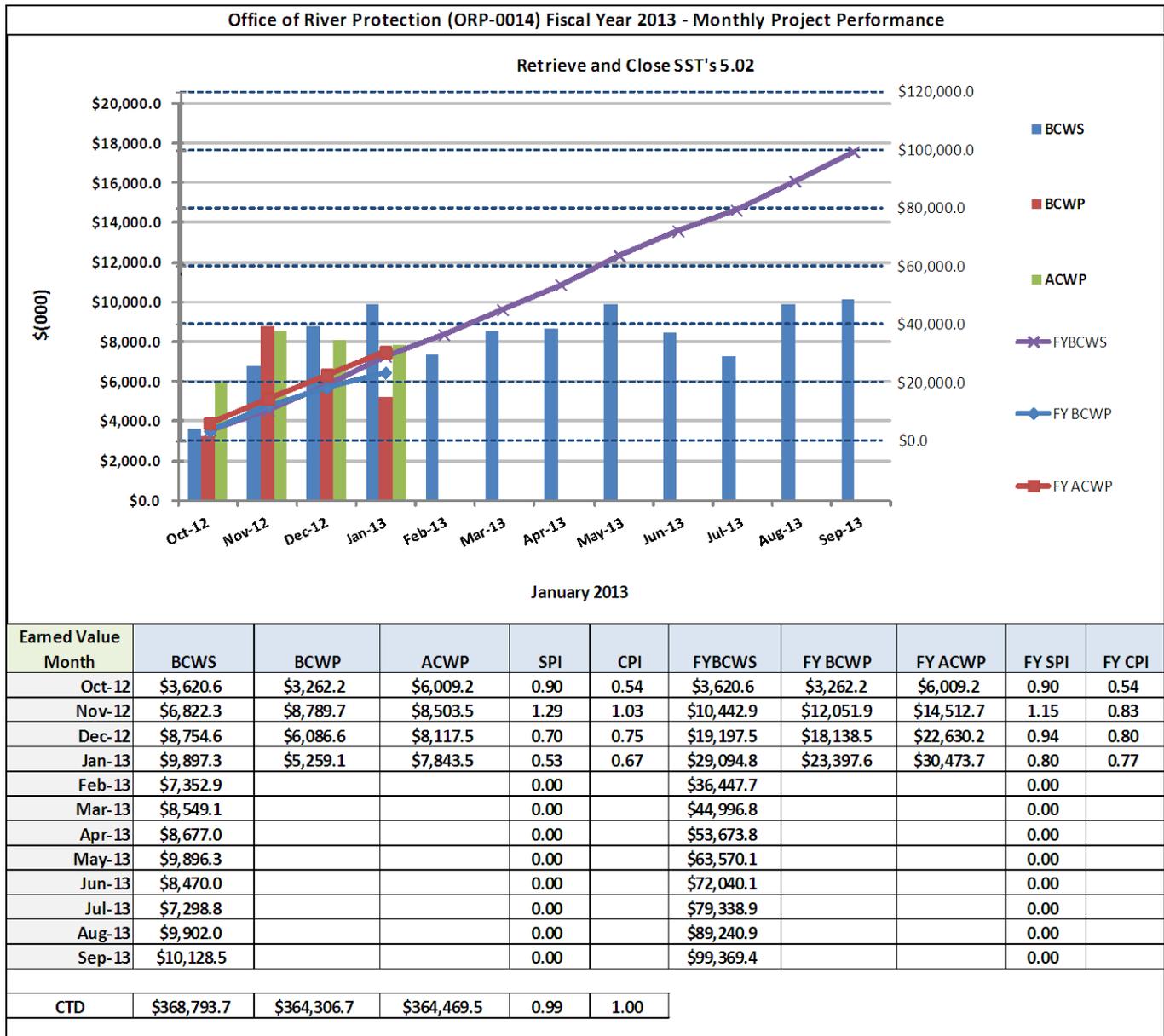
Significant Planned Activities in the Next 6 Months:

Work with Ecology on updates to RPP-22520 and RPP-37739 for tanks C-105 and C-111.

Issues:

None.

SST Retrieval Monthly and Fiscal Year EVMS Data



Single-Shell Tanks

Schedule Variance (\$4,638K):

The unfavorable schedule variance is primarily due to:

- Delays in retrieval of single-shell tank C-102
- Increased testing of the MARS Educator to resolve cross filter plugging issues
- C-107 End Effector Repairs not anticipated
- Delayed replacement of the AN-106 supernate pump.
- Delay to the dome cut progress caused by a deferring profession opinion submitted and appealed.
- C-110 Hot Water Skid Procurement delay

Cost Variance (\$2,584K):

The unfavorable cost variance is primarily due to:

- Additional construction preparation and labor required at SST C-110
- Additional resources, material and subcontract due to hydraulic oil found in the AN-106 pump
- Increased testing of the MARS Eductor
- Additional cost for SST C-105 dome cut preparations
- C-107 plugged fan nozzle and end effector repairs not anticipated
- C-112 additional Engineering for Caustic Addition
- Additional required C Farm Maintenance

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 project currently employs approximately 2264 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel. This includes 596 craft, 434 non-manual, and 121 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of January 2013, the combined Low-Activity Waste, Analytical Laboratory and Balance of Facilities were 60 percent complete, design and engineering was 76 percent complete, procurement was 81 percent complete, construction was 67 percent complete, and startup and commissioning was 9 percent complete. In October 2012, the Baseline Change Proposal that implemented the LBL replan was incorporated into the project over target baseline resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent complete values. The percent complete values for PT and HLW have been frozen at the September rates due to the development of a 2 year Interim Work Plan.

In January 2013, the cumulative-to-date WTP Project schedule variance was a positive \$2.7 M. The cumulative-to-date WTP Project cost variance was a negative \$49.9M. The recent contribution to the cumulative-to date schedule variance is due to early deliveries of plant equipment and construction activities. The major contribution to the cumulative-to-date cost variance is the negative cost variance carried over from the LBL replan.

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

Significant Past Accomplishments:

- Confirmed all LAW mechanical system calculations (LAW)
- Completed hydro testing of piping in the chiller compressor building (BOF)
- Awarded contract for repairs of RLD vessels 163, 164, and 165 to CBI (LAB)

Significant Planned Actions in the Next Six Months:

- Complete the HPAV HGR rate calculations (PT)
- Award contract(s) for prototype design/fabrication for HEPA filter redesign (HLW)
- Complete installation of melter power supplies (LAW)
- Complete installation of Auto Sampling (ASX system) (LAW)
- Complete construction of the Glass Former Storage Facility (BOF)
- Complete construction of WTP Chiller Compressor Plant (BOF)
- Completion of the high purity gas system layup (LAB)

Issues:

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

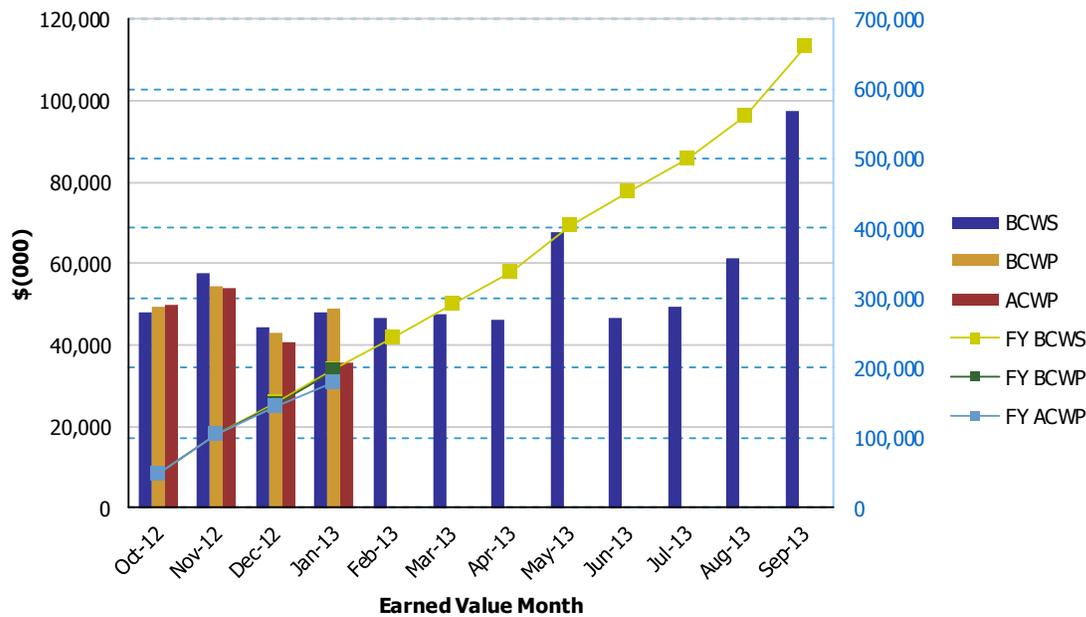
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: January 2013

**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 2012	\$47,840	\$49,300	\$49,742	1.03	0.99	\$47,840	\$49,300	\$49,742	1.03	0.99
Nov 2012	\$57,411	\$54,398	\$53,916	0.95	1.01	\$105,251	\$103,698	\$103,658	0.99	1.00
Dec 2012	\$44,336	\$43,083	\$40,457	0.97	1.06	\$149,587	\$146,781	\$144,115	0.98	1.02
Jan 2013	\$47,780	\$49,037	\$35,389	1.03	1.39	\$197,367	\$195,818	\$179,504	0.99	1.09
Feb 2013	\$46,559					\$243,926				
Mar 2013	\$47,461					\$291,387				
Apr 2013	\$46,122					\$337,509				
May 2013	\$67,705					\$405,214				
Jun 2013	\$46,723					\$451,937				
Jul 2013	\$49,396					\$501,333				
Aug 2013	\$61,319					\$562,652				
Sep 2013	\$97,343					\$659,995				
PTD	\$7,337,977	\$7,340,685	\$7,390,561	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 *
D-00A-13	Complete Installation of Pretreatment Feed Separation Vessels	12/31/2015	On-going *
D-00A-14	PT Facility Construction Substantially Complete	12/31/2017	On-going *
D-00A-15	Start PT Facility Cold Commissioning	12/31/2018	On-going *
D-00A-16	PT Facility Hot Commissioning Complete	12/31/2019	On-going *

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 and schedule for completion.

Significant Past Accomplishments:

The key on-going activities in PT are resolution of technical issues, hazard analyses and safety evaluations for process systems.

Due to the development of a 2 year Interim Work Plan, construction, procurement, and production engineering is on hold, resulting in no change to the percent complete status since September.

The Design Completion Team continues to have discussions on resolution of open technical issues to ensure the design changes are required and requirements are finalized. The abrasivity measuring technology for erosion program has been selected to support testing program.

Construction of the mixing test platform continues as part of preparations for full-scale testing. Engineering studies are being performed to determine full-scale test objectives, vessel selections, and instrument functions to support full scale testing. BNI has completed the 8-ft platform systems calibration and alignment for full-scale vessel testing. The National labs are developing test plan, simulant, and instrumentation requirements. Evaluations are ongoing to understand the available redundancy in case of failures in the black cells. At the same time, available technology is being reviewed to support in-service inspection.

BNI has completed weld inspections for four installed black cell vessels as part of the weld deficiency extent of condition evaluation.

Engineering solutions have been developed by BNI and the recommendation is to modify the bottom head and bottom head cooling jacket on the High Level Waste Lag Storage HLP Vessels (HLP-VSL-0027A, HLP-VSL-0027B, and HLP-VSL-0028). Constructability of this change is under review.

Significant Planned Actions in the Next Six Months:

- Complete the HPAV HGR rate calculations
- Independent review of potential for Criticality in Vessels
- Review of Flammable Gas Generation, Retention, and Release from sediments in vessels
- Decision process for Vessel Structural Modifications
- Develop vessel specific particle characteristics report for erosion/corrosion
- Complete HAZOP for PVP system
- Key activities for resolution of technical issues
- Develop test matrix for erosion/corrosion
- Perform testing of PJM control strategy at 8-ft platform

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.

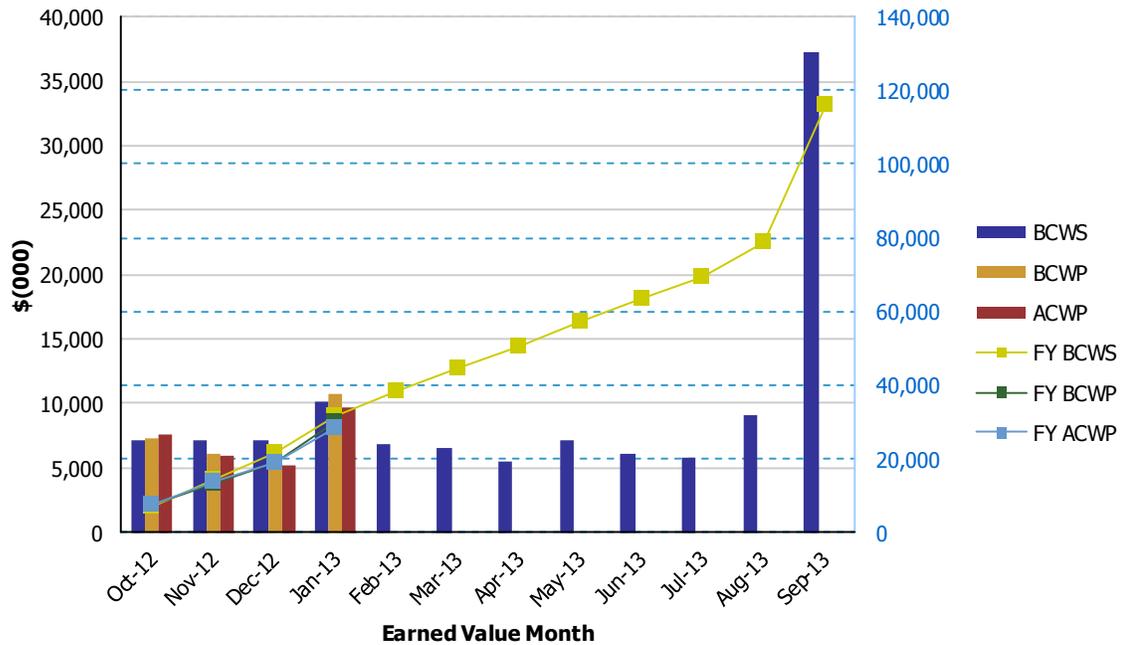
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: January 2013

**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 2012	\$7,077	\$7,269	\$7,660	1.03	0.95	\$7,077	\$7,269	\$7,660	1.03	0.95
Nov 2012	\$7,200	\$6,130	\$5,974	0.85	1.03	\$14,277	\$13,399	\$13,634	0.94	0.98
Dec 2012	\$7,163	\$5,619	\$5,230	0.78	1.07	\$21,440	\$19,018	\$18,864	0.89	1.01
Jan 2013	\$10,097	\$10,759	\$9,756	1.07	1.10	\$31,537	\$29,777	\$28,620	0.94	1.04
Feb 2013	\$6,794					\$38,331				
Mar 2013	\$6,486					\$44,817				
Apr 2013	\$5,481					\$50,298				
May 2013	\$7,201					\$57,499				
Jun 2013	\$6,128					\$63,627				
Jul 2013	\$5,832					\$69,459				
Aug 2013	\$9,097					\$78,556				
Sep 2013	\$37,287					\$115,843				

PTD	\$1,442,004	\$1,440,243	\$1,439,087	1.00	1.00
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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	Complete
D-00A-02	HLW Facility Construction Substantially Complete	12/31/2016	On-going *
D-00A-03	Start HLW Facility Cold Commissioning	6/30/2018	On-going *
D-00A-04	HLW Facility Hot Commissioning Complete	12/31/2019	On-going *

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:

Key ongoing Construction activities are: placement of walls at the 37' elevation; installation of structure steel at the 58' elevation; installation of cable tray supports and HVAC ducts at the 14' elevation. Structural steel associated with the canister import bay is complete.

Due to the development of a 2 year Interim Work Plan, construction, procurement, and production engineering has significantly slowed down, resulting in minimal change to the percent complete status since September.

Key ongoing Engineering and ENS activities are: support construction, procurement, Reliability Validation Process (RVP) towards resolution of level 1 findings and Preliminary Documented Safety Analysis (PDSA) update.

The Design Completion Team continues to have discussions on resolution of open technical issues to ensure the design changes are required and requirements are finalized.

To resolve the HEPA filter issue, a schedule to procure a redesigned filter that will meet plant operating conditions has been developed. A request for proposal has been issued. Once the vendors are selected, the redesigned filters will be tested and the best option selected; the successful design will then go through qualifying testing for use in WTP.

The current Plant Wash and Drain Vessel (RLD-VSL-08) will be repurposed for use in full-scale testing and a new vessel will be procured to replace it. The new RLD-VSL-08 along with the Acidic Waste Vessel (RLD-VSL-07) will be modified from the current design to incorporate

changes recommended by the S-1 Team and any issues identified by RVP. An Engineering study to implement changing to a pump design from the RFD and ejectors for RLD-VSL-7/8 has been issued.

First phase of RVP (Wave 1) is almost complete with the findings being categorized and recorded. BNI is in the process of initiating review and analysis of the issues identified to develop path forward for resolutions. PIERs are being developed to track resolution of the issues. BNI has started the second phase of RVP (Wave 2) that includes review of the HLW C5V system.

Significant Planned Actions in the Next Six Months:

- 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
- Complete review of fabrication of the Thermal Catalytic Oxidizer
- Develop plan to close technical issues and other issues (e.g., safety basis compliance, QA issues and design defensibility) to support ramp-up of HLW construction

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.

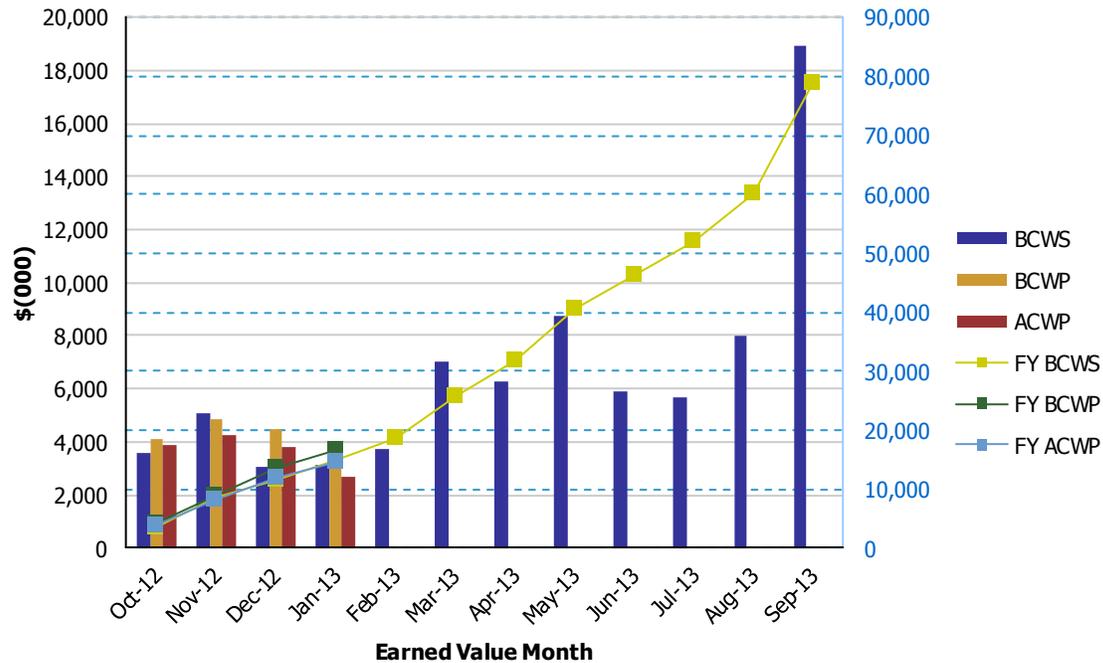
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: January 2013

**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 2012	\$3,545	\$4,105	\$3,895	1.16	1.05	\$3,545	\$4,105	\$3,895	1.16	1.05
Nov 2012	\$5,079	\$4,852	\$4,256	0.96	1.14	\$8,624	\$8,957	\$8,151	1.04	1.10
Dec 2012	\$3,054	\$4,496	\$3,795	1.47	1.18	\$11,678	\$13,453	\$11,946	1.15	1.13
Jan 2013	\$3,092	\$3,266	\$2,714	1.06	1.20	\$14,770	\$16,719	\$14,660	1.13	1.14
Feb 2013	\$3,760					\$18,530				
Mar 2013	\$7,017					\$25,547				
Apr 2013	\$6,253					\$31,800				
May 2013	\$8,717					\$40,517				
Jun 2013	\$5,876					\$46,393				
Jul 2013	\$5,685					\$52,078				
Aug 2013	\$8,029					\$60,107				
Sep 2013	\$18,964					\$79,071				

PTD	\$936,903	\$938,848	\$936,793	1.00	1.00
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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. As of January 2013, the LAW Facility is 62 percent complete overall, with engineering design 76 percent complete, procurement 84 percent complete, construction 62 percent complete, and startup and commissioning is 4 percent complete.

Significant Past Accomplishments:

- Completed 80% of architectural walls
- All LAW mechanical system calculations are confirmed
- Completed 62% of scheduled and unscheduled electrical conduit
- Hydro-testing 17% complete
- Completion of coaxial pipe on 28' elevation

Significant Planned Actions in the Next Six Months:

- Complete installation melter power supplies
- Complete installation of Auto Sampling (ASX) system
- Receive HEPA Pre-heaters for LAW Secondary Offgas/Vessel Vent Process (LVP) system
- Commence installation of melter refractory
- Award the LBL piping heat trace and insulation subcontract

Issues:

No major issues at this time

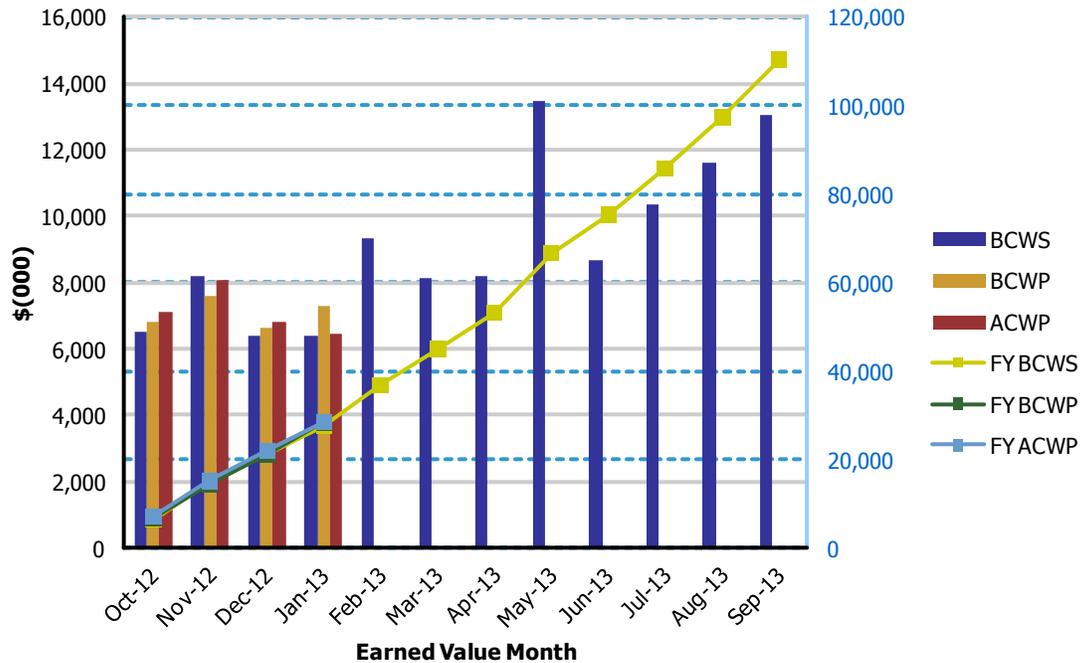
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: January 2013

**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 2012	\$6,536	\$6,787	\$7,142	1.04	0.95	\$6,536	\$6,787	\$7,142	1.04	0.95
Nov 2012	\$8,212	\$7,602	\$8,071	0.93	0.94	\$14,748	\$14,389	\$15,213	0.98	0.95
Dec 2012	\$6,418	\$6,648	\$6,814	1.04	0.98	\$21,166	\$21,037	\$22,027	0.99	0.96
Jan 2013	\$6,392	\$7,303	\$6,469	1.14	1.13	\$27,558	\$28,340	\$28,496	1.03	0.99
Feb 2013	\$9,346					\$36,904				
Mar 2013	\$8,128					\$45,032				
Apr 2013	\$8,191					\$53,223				
May 2013	\$13,479					\$66,702				
Jun 2013	\$8,654					\$75,356				
Jul 2013	\$10,372					\$85,728				
Aug 2013	\$11,603					\$97,331				
Sep 2013	\$13,058					\$110,389				

PTD	\$721,269	\$725,328	\$777,042	1.01	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	Complete

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. As of December 2012, the BOF is 54 percent complete overall, with engineering design 76 percent complete, procurement 68 percent complete, construction 71 percent complete, and startup and commissioning is 9 percent complete. A concern has been raised about the effectiveness of the design for the cathodic protection system. BNI is designing and installing test stations to improve the understanding of the effectiveness of the system.

Significant Past Accomplishments:

- Completed hydro testing of piping in the chiller compressor building
- Started low voltage electrical testing for building 87
- Completed installing the combination air valves and pressure safety valves for the demineralized water and domestic water systems

Significant Planned Actions in the Next Six Months:

- Complete Construction of the WTP Chiller Compressor Plant (CCP)
- Complete the component and functional testing of the low and medium voltage (LVE/MVE) and fire detection (FDE) systems in the Switchgear Building (Bldg. 87)
- Complete construction of the Glass Former Storage Facility
- Complete placement of grout for load stabilization beneath pipe rack column bases

Issues:

No major issues at this time

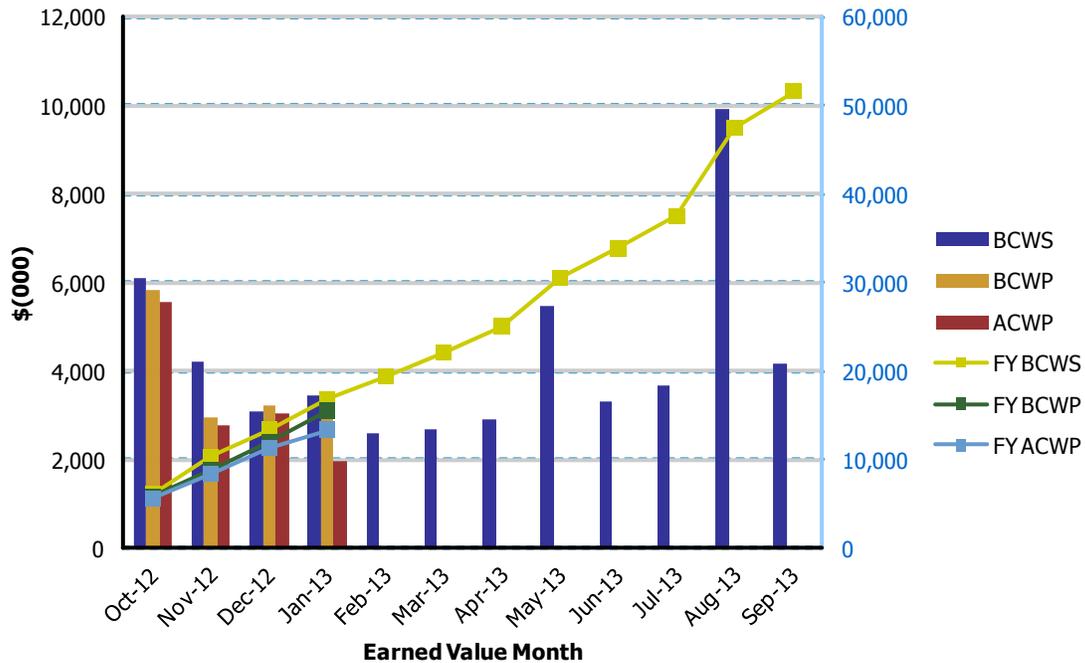
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: January 2013

**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 2012	\$6,106	\$5,820	\$5,580	0.95	1.04	\$6,106	\$5,820	\$5,580	0.95	1.04
Nov 2012	\$4,226	\$2,955	\$2,775	0.70	1.06	\$10,332	\$8,775	\$8,355	0.85	1.05
Dec 2012	\$3,077	\$3,213	\$3,026	1.04	1.06	\$13,409	\$11,988	\$11,381	0.89	1.05
Jan 2013	\$3,452	\$3,559	\$1,970	1.03	1.81	\$16,861	\$15,547	\$13,351	0.92	1.16
Feb 2013	\$2,585					\$19,446				
Mar 2013	\$2,704					\$22,150				
Apr 2013	\$2,894					\$25,044				
May 2013	\$5,490					\$30,534				
Jun 2013	\$3,333					\$33,867				
Jul 2013	\$3,654					\$37,521				
Aug 2013	\$9,926					\$47,447				
Sep 2013	\$4,149					\$51,596				

PTD	\$292,608	\$291,132	\$287,283	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	Complete

The Analytical Laboratory (LAB) will support WTP operations by analyzing feed, vitrified waste, and effluent streams. As of December 2012, the LAB is 67 percent complete overall, with engineering design 74 percent complete, procurement 85 percent complete, construction 79 percent complete, and startup and commissioning is 21 percent complete.

Significant Past Accomplishments:

- Awarded contract for repairs of RLD vessels 163, 164, and 165 to CBI
- Started to pull cable for the fire detection systems in the administrative area
- Design and modifications for seismic anchor movement are complete

Significant Planned Actions in the Next Six Months:

- Completion of the high purity gas system layup
- Pulling cable for the C2 ventilation (C2V) system adjustable speed drive (ASD) equipment
- Terminating cable for the HVAC air-handling units and ASDs
- Completion and closeout of the HVAC subcontract
- Complete repairs to RLD vessels

Issues:

No major issues at this time

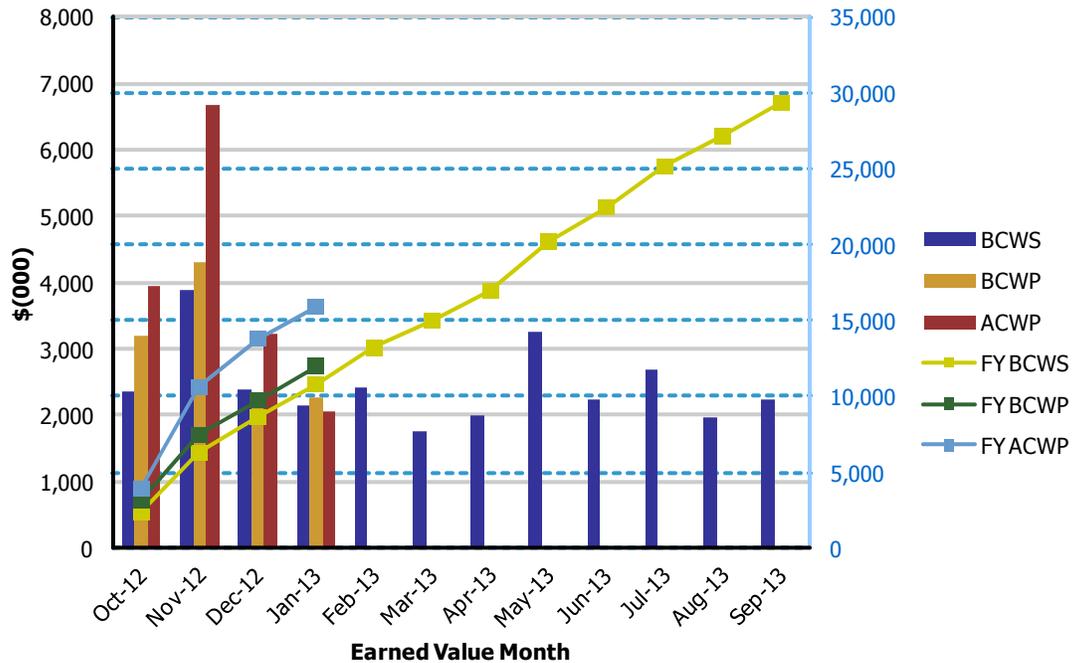
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: January 2013

**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 2012	\$2,370	\$3,183	\$3,952	1.34	0.81	\$2,370	\$3,183	\$3,952	1.34	0.81
Nov 2012	\$3,896	\$4,303	\$6,675	1.10	0.64	\$6,266	\$7,486	\$10,627	1.19	0.70
Dec 2012	\$2,381	\$2,257	\$3,219	0.95	0.70	\$8,647	\$9,743	\$13,846	1.13	0.70
Jan 2013	\$2,137	\$2,270	\$2,052	1.06	1.11	\$10,784	\$12,013	\$15,898	1.11	0.76
Feb 2013	\$2,432					\$13,216				
Mar 2013	\$1,753					\$14,969				
Apr 2013	\$2,012					\$16,981				
May 2013	\$3,246					\$20,227				
Jun 2013	\$2,224					\$22,451				
Jul 2013	\$2,699					\$25,150				
Aug 2013	\$1,975					\$27,125				
Sep 2013	\$2,228					\$29,353				

PTD	\$216,711	\$219,083	\$239,254	1.01	0.92
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Waste Treatment Plant Project - (LBL) Percent Complete Status Through January 2013															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Plant Operations Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Facilities															
Low-Activity Waste	1,176.8	725.3	62%	294.2	224.0	76%	259.2	218.6	84%	445.7	274.8	62%	177.7	7.9	4%
Analytical Lab	327.9	219.1	67%	69.9	51.5	74%	54.5	46.3	85%	134.7	106.6	79%	68.8	14.7	21%
Balance of Facilities	542.2	291.1	54%	91.2	69.1	76%	71.3	48.2	68%	225.0	160.5	71%	154.7	13.4	9%
Total LBL	2,046.9	1,235.5	60%	455.2	344.6	76%	385.0	313.0	81%	805.4	541.9	67%	401.3	36.0	9%
PT/HLW/SS Percent Complete Status Frozen as of September 2012 (due to project rebaselining efforts)															
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	n/a	n/a	67%	n/a	n/a	87%	n/a	n/a	73%	n/a	n/a	62%	n/a	n/a	15%
Undistributed Budget	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total WTP	n/a	n/a	67%	n/a	n/a	87%	n/a	n/a	73%	n/a	n/a	62%	n/a	n/a	15%

Source: Preliminary WTP Contract Performance Report - Format 1, Data for Jan 2013

Note: In September 2012, the LBL Replan was incorporated into the project OTB baseline resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent complete values. In October 2012, the PT/HLW/SS Interim Work Plan was incorporated into the project OTB baseline resulting in decreases to the PT/HLW/SS facility budgets, this was due to a work scope shift from the Distributed budget to UB. Percent Complete Values shown for PT, HLW and SS have been frozen with the September 2012 values due to the Interim Work Plan and budgets being moved into UB. UB value for the project for PT/HLW/SS is \$1,983M.