
FINAL

Office of River Protection
Consent Decree 08-5085-FVS

Monthly Summary Report

June 2013

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

June 2013 (Monthly Summary Report/Project EVMS reflects April 2013 information)

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	Kathy Higgins / Jeff Lyon
5	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	03/29/2013	Completed
D-00C-02AD	Submit to Ecology & State of Oregon Monthly Summary Report	04/30/2013	04/25/2013	Completed
D-00C-02AE	Submit to Ecology & State of Oregon Monthly Summary Report	05/31/2013	05/21/2013	Completed
D-00C-02AF	Submit to Ecology & State of Oregon Monthly Summary Report	06/30/2013		On-going
**D-00C-02AG	Submit to Ecology & State of Oregon Monthly Summary Report	07/31/2013		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	TBD		On-going
Fiscal Year 2014				
D-006-00-A	Meet Approximately Every 3 Years to Review Requirements of CD	TBD		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
Fiscal Year 2015				
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014		On-going
D-00A-19	Complete EL. 98' Concrete Floor Slab Placements in PT Facility	12/31/2014		On-going

SST Retrieval Program

D-00B-01, Complete Retrieval of Tank Wastes from 10 Remaining SSTs in WMA-C, Due: 09/30/2014, Status: On-going.* Please see issues below.

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

Pursuant to Section IV-B-5 of the 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. Completed for SST C-104 on 03/21/13 via ORP letter 13-TF-0018. Completed for SST C-108 on 05/01/13 via ORP letter 13-TF-0025. Completed for SST C-109 on 06/04/13 via ORP letter 13-TF-0037.

D-00B-02, Advise Ecology of the 9 SSTs from which Waste Will Be Retrieved by 2022, Due: 09/30/2014, Status: Completed on 08/24/11.

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: 09/30/2022, Status: On-going

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

Significant Past Accomplishments:

- Operated the C-101 retrieval system intermittently, as resources were available.
- Completed mockup activities for the core cut from the C-105 dome.
- Restarted retrieval sluicing via the Mobile Arm Retrieval System (MARS-S) at C-107.
- Continued with Construction Acceptance Testing (CAT) of the C-110 Fold Track system.
- Continued with installation of equipment for C-112 Hard Heel removal.

Significant Planned Activities in the Next Six Months:

- Complete C-101 hard heel retrieval.
- Complete installation of the MARS-V in C-105.
- Complete C-107 hard heel retrieval.
- Submit retrieval certificates of completion for C-108 and C-109 to Ecology.
- Begin start-up of hard heel retrieval in C-110 using the Fold-Track.
- Begin start-up of hard heel retrieval in C-112 using caustic dissolution.

Issues:

*Although this Monthly Summary Report covers information through April 2013, DOE notes that on June 6, 2013 it notified the States of Washington and Oregon that a serious risk has arisen that DOE may not meet Consent Decree milestone B-1 for tanks C-102 and C-105.

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:

- Modification notice 2013-05 for TWRWP RPP-22393 was approved by ORP and Ecology allowing the High Resolution Resistivity system to be used for C-102 leak detection. Prior to the modification, weekly moisture logging was required when not in active retrieval because of high interstitial liquid levels. The change now allows the TOC to do 30 days of HRR monitoring once per quarter rather than weekly moisture logging.

Significant Planned Activities in the Next 6 Months:

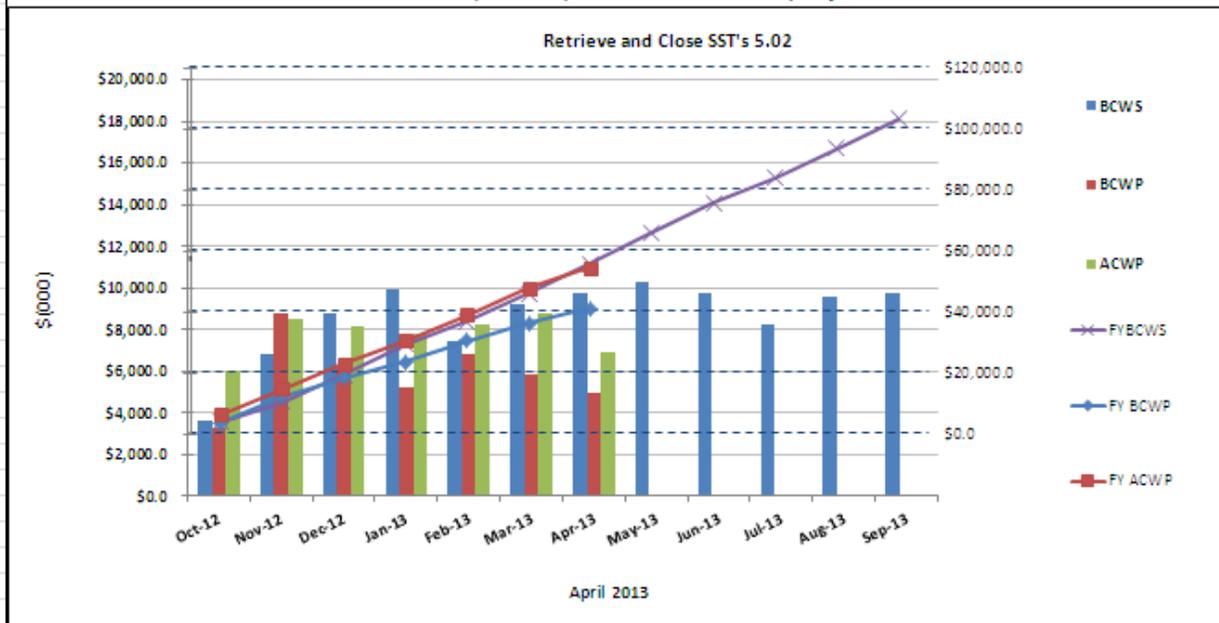
- Work with Ecology on update to TWRWP RPP-37739 for C-111.

Issues:

- None.

SST Retrieval Monthly and Fiscal Year EVMS Data

Office of River Protection (ORP-0014) Fiscal Year 2013 - Monthly Project Performance



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-12	\$3,620.6	\$3,262.2	\$6,009.2	0.90	0.54	\$3,620.6	\$3,262.2	\$6,009.2	0.90	0.54
Nov-12	\$6,822.3	\$8,789.7	\$8,503.5	1.29	1.03	\$10,442.9	\$12,051.9	\$14,512.7	1.15	0.83
Dec-12	\$8,754.6	\$6,086.6	\$8,117.5	0.70	0.75	\$19,197.5	\$18,138.5	\$22,630.2	0.94	0.80
Jan-13	\$9,897.3	\$5,259.1	\$7,843.5	0.53	0.67	\$29,094.8	\$23,397.6	\$30,473.7	0.80	0.77
Feb-13	\$7,491.3	\$6,807.5	\$8,239.1	0.91	0.83	\$36,586.1	\$30,205.1	\$38,712.8	0.83	0.78
Mar-13	\$9,250.2	\$5,862.5	\$8,789.0	0.63	0.67	\$45,836.3	\$36,067.6	\$47,501.8	0.79	0.76
Apr-13	\$9,716.9	\$4,949.6	\$6,912.8	0.51	0.72	\$55,553.2	\$41,017.2	\$54,414.5	0.74	0.75
May-13	\$10,282.1			0.00		\$65,835.3			0.00	
Jun-13	\$9,730.7			0.00		\$75,566.0			0.00	
Jul-13	\$8,224.5			0.00		\$83,790.5			0.00	
Aug-13	\$9,613.2			0.00		\$93,403.7			0.00	
Sep-13	\$9,714.1			0.00		\$103,117.8			0.00	
CTD	\$395,252.1	\$381,926.3	\$388,410.4	0.97	0.98					

Retrieval and Close Single-Shell Tanks

Schedule Variance (\$4,767K):

The unfavorable schedule variance is primarily due to:

- C-102 no longer being retrieved in parallel with C-101 due to a required shift in labor resource skills.
- C-105 dome cut and MARS Vacuum installation due to the DPO.
- C-110 retrieval delays due to bump and roll of operations.
- C-111 design of the Hard Heel Retrieval System due to DST Deep Bed sludge issues.
- C-112 design delays.

Cost Variance (\$1,963K):

The unfavorable cost variance is primarily due to:

- Additional resources required to complete retrieval of C-101.
- Additional resources and material required for single-shell tank C-110 retrieval activities.
- Additional field and operations crews needed to perform conduit installation.
- Higher costs required to resolve issues with the MARS-V system.

Waste Treatment and Immobilization Plant Project

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

The Waste Treatment and Immobilization Plant (WTP) Project currently employs approximately 2,158 full-time equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel. This includes 572 craft, 448 non-manual, and 120 subcontractor FTE personnel working at the WTP construction site (all facilities). As of April 2013, the combined Low-Activity Waste (LAW) Facility, Analytical Laboratory (LAB), and Balance of Facilities (BOF) were 62 percent complete; design and engineering was 76 percent complete; procurement was 83 percent complete; construction was 70 percent complete; and startup and commissioning was 10 percent complete.

In September 2012, the baseline change proposal (BCP) that implemented the LAW, BOF, and LAB (LBL) replan was incorporated into the project over-target baseline (OTB), 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 Pretreatment (PT) and High-Level Waste (HLW) Facilities 2-year interim work plan was incorporated into the project OTB and the percent complete values for PT and HLW were frozen at the September 2012 rate. The WTP Project continues to progress in accordance with the LBL replan and PT/HLW 2-year interim work plan.

In April 2013, the cumulative to-date WTP Project schedule variance was a positive \$4.5M, and the cumulative to-date WTP Project cost variance was a negative \$38.7M. The recent contribution to the cumulative to-date schedule variance is due to early deliveries of plant equipment and early completion of 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 April.

Significant Past Accomplishments:

- Received the first simulant procurement for the 8-ft testing program (PT)
- BNI has issued the engineering specification for vessel testing to support development of test plan by the national laboratories (PT)
- BNI has issued first (Safety Evaluation Part 1) of the two ABAR changes to support PDSA upgrade (HLW)
- Completed pump and line sizing calculations for the modification of the test vessel RLD-VSL-8T (HLW)
- Completed installation of 3 layers of refractory brick in Melters 1&2 (LAW)
- Started component testing of the medium voltage electrical (MVE) system in the BOF switchgear building 91 (BOF)

Significant Planned Actions in the Next Six Months:

- Perform testing of pulse jet mixing control strategy using the 8-ft vessel mixing test platform (PT)
- Develop vessel specific particle characteristics report for erosion/corrosion (PT/HLW)
- Award contract(s) for prototype design/fabrication of high-efficiency particulate air (HEPA) filters (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 PT and HLW Facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

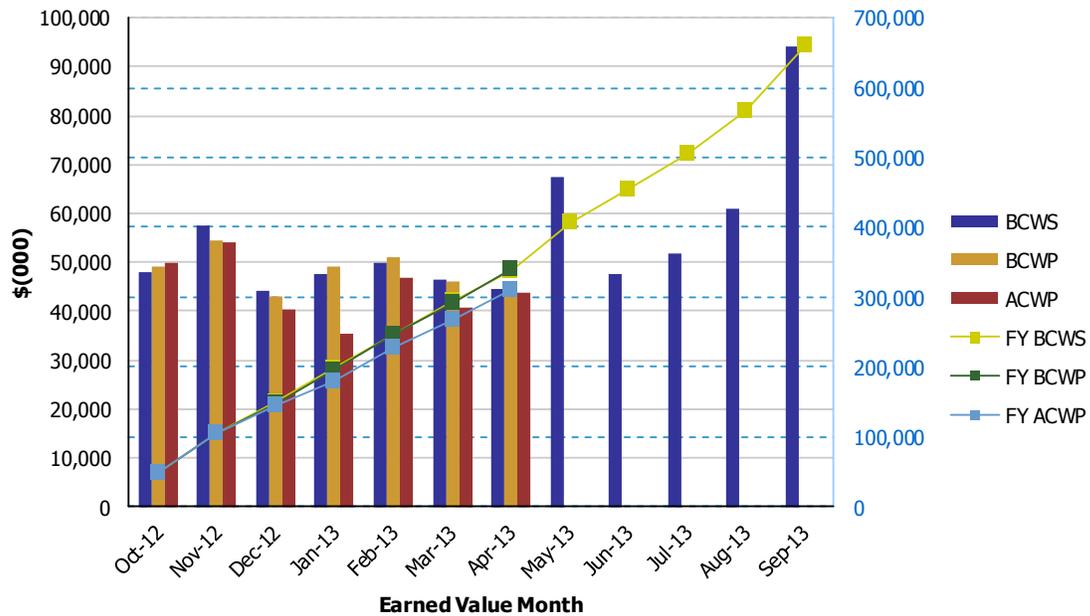
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: April 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	\$49,984	\$50,929	\$47,008	1.02	1.08	\$247,351	\$246,747	\$226,512	1.00	1.09
Mar 2013	\$46,568	\$45,897	\$40,819	0.99	1.12	\$293,919	\$292,644	\$267,331	1.00	1.09
Apr 2013	\$44,537	\$46,052	\$43,887	1.03	1.05	\$338,456	\$338,696	\$311,218	1.00	1.09
May 2013	\$67,563					\$406,019				
Jun 2013	\$47,715					\$453,734				
Jul 2013	\$51,682					\$505,416				
Aug 2013	\$61,121					\$566,536				
Sep 2013	\$94,165					\$660,701				

PTD	\$7,479,065	\$7,483,564	\$7,522,276	1.00	0.99
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PRETREATMENT FACILITY

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

The PT Facility will separate radioactive tank waste into high-level waste and low-activity waste 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. Construction, procurement, and production engineering activities remain on hold, resulting in no change to the percent complete status since September 2012. BNI continues to focus on resolving technical issues, performing hazard analyses, and completing safety evaluations for process systems in accordance with the 2-year interim work plan.

The Design Completion Team continues to evaluate open technical issues for resolution. Construction of the mixing test platform continues in preparation for full-scale testing. Engineering specifications for the full-scale testing have been prepared and are undergoing a multi-discipline review, and the national labs are developing a test plan, simulant, and instrumentation requirements. Phase 1 testing for erosion/abrasivity testing is scheduled to be completed by the end of calendar year 2013.

BNI is performing an impact evaluation for a potential change to the natural phenomenon hazards design criteria that would double the ashfall criteria. This design criteria revision has the potential to impact facility and HVAC system design.

Significant Past Accomplishments:

- Approved BCPs updating the 2-year interim work plan incorporating detailed path forward for technical issue resolution
- Received the first simulant procurement for the 8-ft testing program
- Awarded subcontracts for Phase 1 erosion testing (jet impingement and erosion/abrasivity)
- BNI has issued the engineering specification for vessel testing to support development of test plan by the national laboratories
- HLP vessel bottom head structural issue has been resolved and approved by the core team
- BNI completed the review and development of test plan for seismic validation of PUREX jumper connectors

Significant Planned Actions in the Next Six Months:

- Perform independent review of the potential for criticality in vessels
- Review flammable gas generation, retention, and release from sediments in vessels
- Develop decision process for vessel structural modifications
- Develop vessel specific particle characteristics report for erosion/corrosion
- Perform testing of pulse jet mixing control strategy using the 8-ft vessel mixing test platform
- Issue engineering specification for vessel testing
- Complete update of the 2-year interim work plan to incorporate path forward
- Issue sampling action plan to determine sampling accuracy
- Issue draft procedure for conducting Failure Mode, Effects, and Criticality Analysis (FMECA)
- Update basis of design for safety classification regarding seismic analysis of vessels

Issues:

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

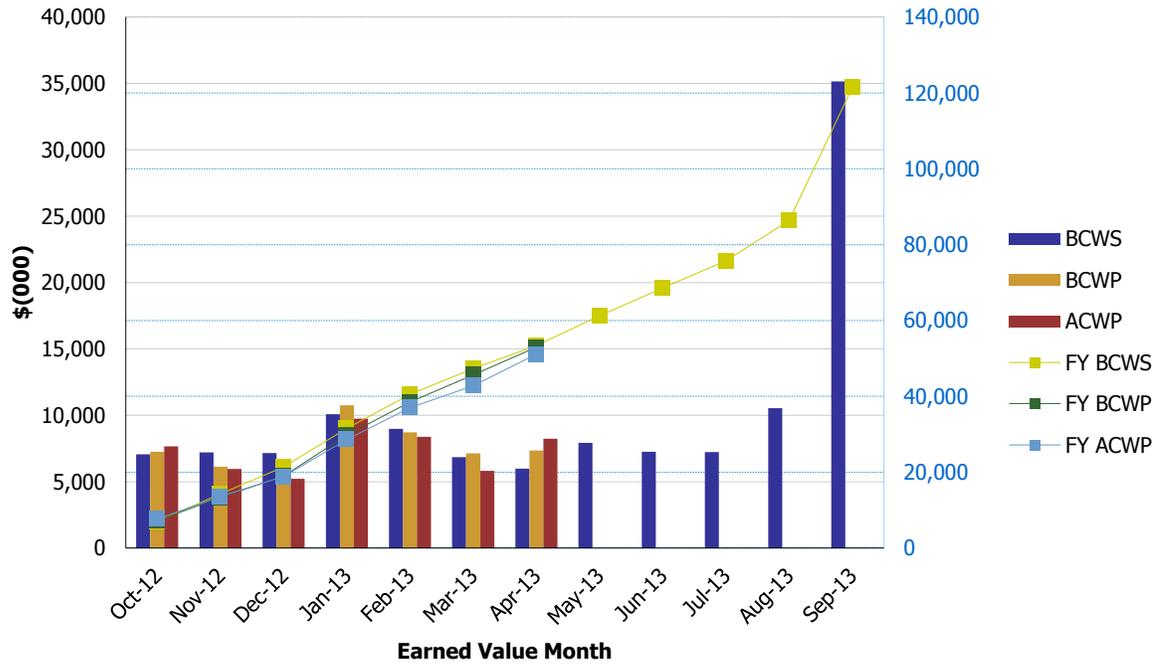
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: April 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	\$8,994	\$8,716	\$8,382	0.97	1.04	\$40,531	\$38,493	\$37,002	0.95	1.04
Mar 2013	\$6,839	\$7,142	\$5,831	1.04	1.22	\$47,370	\$45,635	\$42,833	0.96	1.07
Apr 2013	\$5,995	\$7,355	\$8,252	1.23	0.89	\$53,365	\$52,990	\$51,085	0.99	1.04
May 2013	\$7,928					\$61,293				
Jun 2013	\$7,266					\$68,559				
Jul 2013	\$7,235					\$75,794				
Aug 2013	\$10,547					\$86,340				
Sep 2013	\$35,145					\$121,485				

PTD	\$1,463,832	\$1,463,456	\$1,461,552	1.00	1.00
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HIGH-LEVEL WASTE 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	Ongoing *
D-00A-03	Start HLW Facility Cold Commissioning	6/30/2018	Ongoing *
D-00A-04	HLW Facility Hot Commissioning Complete	12/31/2019	Ongoing *

The High Level Waste (HLW) Facility will receive the separated high-level waste concentrate from the 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 4 percent complete. Construction, procurement, and production engineering activities have significantly slowed down, resulting in minimal change to the percent completion status since September. BNI continues to focus on resolving technical issues, performing hazard analyses, and completing safety evaluations for process systems in accordance with the 2-year interim work plan.

The Design Completion Team continues to evaluate open technical issues for resolution. Construction activities include the placement of walls at the 37-ft elevation, installation of structural steel at the 58-ft elevation, and installation of cable tray supports and ventilation ducts at the 14-ft elevation. Engineering efforts are focused on resolution of Priority Level 1 findings. Environmental and Nuclear Safety continues to update the Preliminary Documented Safety Analysis (PDSA) and is progressing towards performing hazard analysis for several systems.

BNI is reviewing and analyzing the issues identified in RVP (Wave 1) to develop a path forward for issue resolution. Project issue evaluation reports (PIER) are developed to track resolution of the issues and corrective actions are being identified. BNI is progressing on the second phase of RVP (Wave 2), which includes review of the HLW C5V system.

Significant Past Accomplishments:

- BNI has issued first (Safety Evaluation Part 1) of the two ABAR changes to support PDSA upgrade
- Completed pump and line sizing calculations for the modification of the test vessel RLD-VSL-8T
- Completed second barrier inspection of the fabricated off-gas fans and approved shipping to the site
- Awarded contract for HEPA filter testing to MSU

Significant Planned Actions in the Next Six Months:

- Award contract(s) for prototype design/fabrication of HEPA filters
- Complete RVP reviews
- Complete review of fabrication of the thermal catalytic oxidizer
- Develop plan to close technical issues and other issues (e.g., safety basis compliance, quality assurance issues, and design defensibility) of HLW in calendar year 2013
- Issue first HPAV HGR calculation for HLW
- Complete draft analysis of single point failures in support of failure mode analysis
- Complete conceptual design of in-service inspection
- Complete plan for erosion/corrosion risk evaluation for HLW

Issues:

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

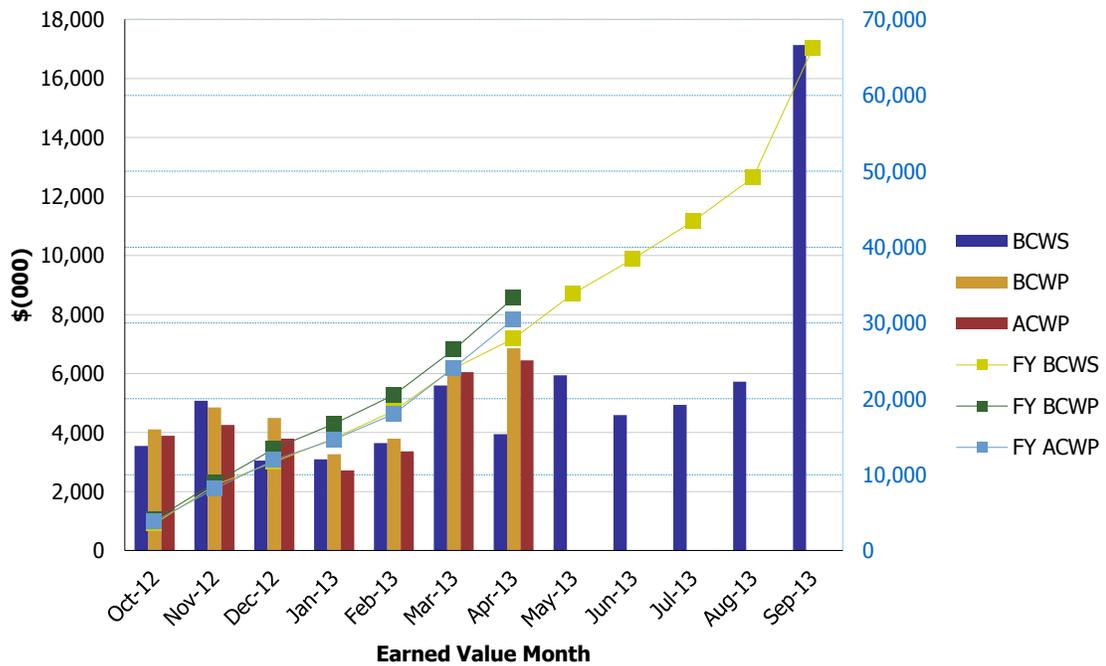
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: April 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	\$3,639	\$3,791	\$3,362	1.04	1.13	\$18,409	\$20,510	\$18,022	1.11	1.14
Mar 2013	\$5,595	\$5,953	\$6,053	1.06	0.98	\$24,004	\$26,463	\$24,075	1.10	1.10
Apr 2013	\$3,944	\$6,860	\$6,443	1.74	1.06	\$27,948	\$33,323	\$30,518	1.19	1.09
May 2013	\$5,943					\$33,891				
Jun 2013	\$4,594					\$38,485				
Jul 2013	\$4,941					\$43,426				
Aug 2013	\$5,722					\$49,148				
Sep 2013	\$17,135					\$66,283				

PTD	\$950,081	\$955,452	\$952,650	1.01	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	Ongoing* (see issues below)
D-00A-08	Start LAW Facility Cold Commissioning	12/31/2018	Ongoing
D-00A-09	LAW Facility Hot Commissioning Complete	12/31/2019	Ongoing

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 April 2013, the LAW Facility is 63 percent complete overall, with engineering design 77 percent complete, procurement 85 percent complete, construction 64 percent complete, and startup and commissioning is 5 percent complete.

Significant Past Accomplishments:

- Completed installation of three layers of refractory brick in Melter 1 and 2
- Placed concrete pad with anchor bolts for the Caustic Scrubber vessel
- Installed the power control panels and track for the lidding bogie cart
- Received the temporary 25 ton crane to be used to set the melter lids

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
- Continue refractory brick installation in the melters
- Complete hazard analysis for the melter and container handling systems

Issues:

* Although this Monthly Summary Report covers information through April 2013, DOE notes that on June 6, 2013 it notified the States of Washington and Oregon that a serious risk has arisen that DOE may not meet Consent Decree milestone A-7.

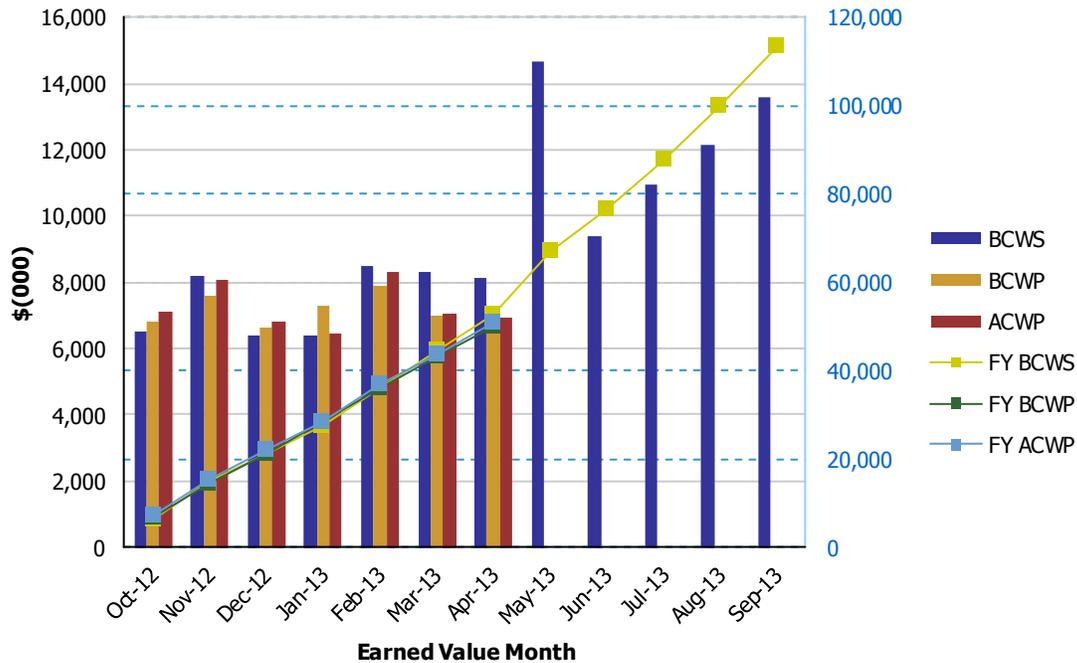
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: April 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	\$8,503	\$7,873	\$8,338	0.93	0.94	\$36,061	\$36,213	\$36,834	1.00	0.98
Mar 2013	\$8,316	\$6,966	\$7,054	0.84	0.99	\$44,377	\$43,179	\$43,888	0.97	0.98
Apr 2013	\$8,135	\$6,765	\$6,950	0.83	0.97	\$52,512	\$49,944	\$50,838	0.95	0.98
May 2013	\$14,674					\$67,186				
Jun 2013	\$9,402					\$76,588				
Jul 2013	\$10,967					\$87,555				
Aug 2013	\$12,145					\$99,700				
Sep 2013	\$13,606					\$113,306				

PTD	\$746,222	\$746,933	\$799,383	1.00	0.93
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BALANCE OF FACILITIES (BOF)

Number	Title	Due Date	Status
D-00A-12	Steam Plant Construction Complete	12/31/2012	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 April 2013, the BOF is 56 percent complete overall, with engineering design 77 percent complete, procurement 72 percent complete, construction 73 percent complete, and startup and commissioning is 10 percent complete.

Significant Past Accomplishments:

- Started component testing of the medium voltage electrical (MVE) system in the BOF switchgear building 91
- Completed installation of the additional cathodic protection test stations

Significant Planned Actions in the Next Six Months:

- Complete construction of WTP Chiller Compressor Plant
- Complete the component and functional testing of the low voltage, medium voltage, and fire detection systems for Switchgear Buildings 87 and 91
- Complete construction of the Glass Former Storage Facility

Issues:

No major issues at this time

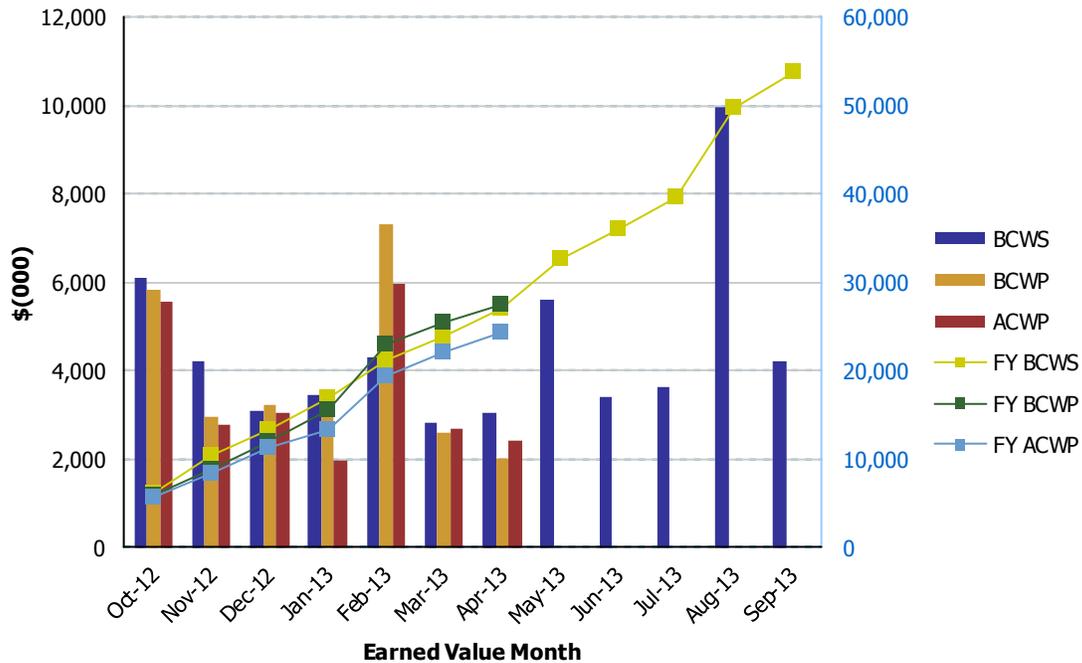
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: April 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	\$4,286	\$7,315	\$5,963	1.71	1.23	\$21,147	\$22,862	\$19,314	1.08	1.18
Mar 2013	\$2,799	\$2,588	\$2,675	0.92	0.97	\$23,946	\$25,450	\$21,989	1.06	1.16
Apr 2013	\$3,057	\$1,988	\$2,397	0.65	0.83	\$27,003	\$27,438	\$24,386	1.02	1.13
May 2013	\$5,611					\$32,614				
Jun 2013	\$3,418					\$36,032				
Jul 2013	\$3,638					\$39,670				
Aug 2013	\$9,955					\$49,625				
Sep 2013	\$4,223					\$53,849				

PTD	\$302,751	\$303,023	\$298,318	1.00	1.02
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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 April 2013, the LAB is 68 percent complete overall, with engineering design 74 percent complete, procurement 85 percent complete, construction 81 percent complete, and startup and commissioning is 22 percent complete.

Significant Past Accomplishments:

- Completed subcontractor testing of the High Purity Gas systems – Bottled Nitrogen Gas (BNG), Bottled Helium Gas (BHG), Bottled Argon Gas (BAG)
- 51% complete on pipe flushing spool installation
- 85% complete on instrument tubing installation

Significant Planned Actions in the Next Six Months:

- Receive instrument and transport lines for the exhaust stack monitors
- Complete electrical engineering design for the analytical laboratory
- Terminating cable for the HVAC air-handling units and adjustable speed drives (ASDs)
- Complete repairs to RLD vessels

Issues:

No major issues at this time.

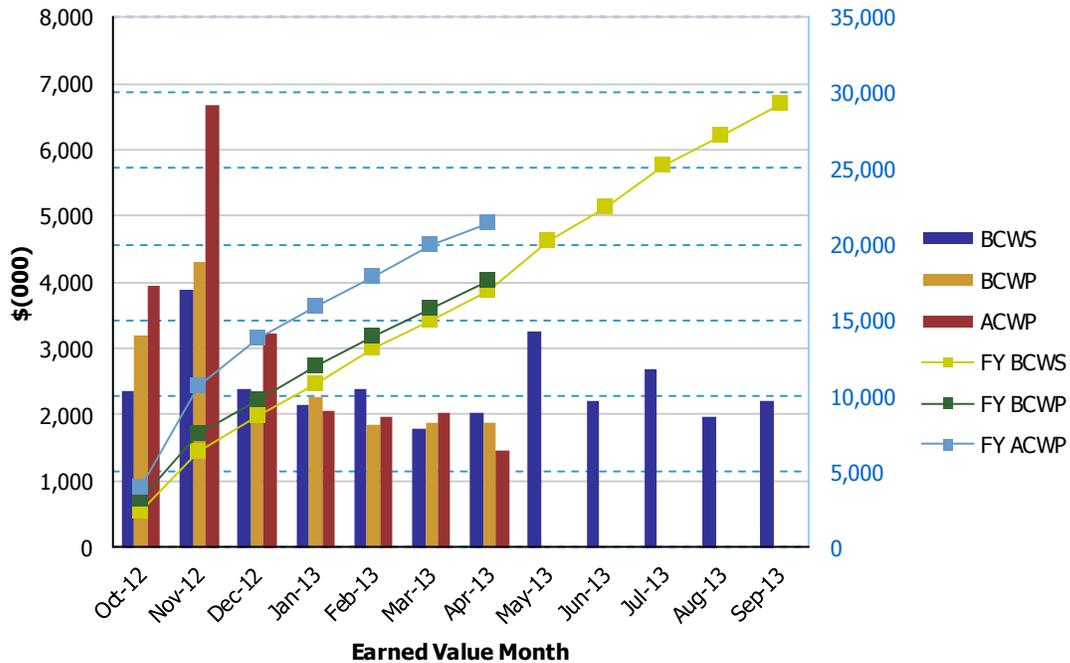
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: April 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	\$2,387	\$1,852	\$1,977	0.78	0.94	\$13,171	\$13,865	\$17,875	1.05	0.78
Mar 2013	\$1,783	\$1,879	\$2,044	1.05	0.92	\$14,954	\$15,744	\$19,919	1.05	0.79
Apr 2013	\$2,021	\$1,883	\$1,475	0.93	1.28	\$16,975	\$17,627	\$21,394	1.04	0.82
May 2013	\$3,258					\$20,232				
Jun 2013	\$2,212					\$22,444				
Jul 2013	\$2,688					\$25,132				
Aug 2013	\$1,964					\$27,096				
Sep 2013	\$2,220					\$29,316				

PTD	\$222,901	\$224,698	\$244,750	1.01	0.92
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Waste Treatment Plant Project - (LBL) Percent Complete Status Through April 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
Low-Activity Waste	1,183.6	746.9	63%	300.7	230.3	77%	259.3	221.0	85%	445.9	287.0	64%	177.7	8.6	5%
Analytical Lab	330.2	224.7	68%	71.0	52.8	74%	54.5	46.5	85%	135.8	110.4	81%	68.9	15.0	22%
Balance of Facilities	542.3	303.0	56%	91.9	71.2	77%	71.3	51.6	72%	224.3	164.1	73%	154.7	16.1	10%
Total LBL	2,056.1	1,274.7	62%	463.6	354.3	76%	385.1	319.1	83%	806.0	561.4	70%	401.3	39.8	10%
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 Apr 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.