

FINAL

Office of River Protection
Tri-Party Agreement
Monthly Summary Report
March 2015



**Office of River Protection
Tri-Party Agreement Milestone Review**

**March 2015 (Monthly Summary Report/Project Earned Value Management System reflects
January 2015 information)**

Page	Topic	Leads
1	Administrative Items/Milestone Status	Bryan Trimberger/Dan McDonald/Jeff Lyon
2	System Plan; M-062-40	DaBrisha Smith/Jeff Lyon/Dan McDonald
3	Acquisition of New Facilities; M-090-00 and M-047-00	Janet Diediker/Jeff Lyon/Dan McDonald
4	Supplemental Treatment and Part B Permit Applications; M-062-00, M-062-21, M-062-30, and M-062-45	Steve Pfaff/Jeff Lyon/Dan McDonald
5	242-A Evaporator Status	Richard Valle/Paul Hernandez/Jeff Lyon
6	Double-Shell Tank System Update	Jeremy Johnson/Jeff Lyon
6	Single-Shell Tank Integrity Assurance; M-045-91	Jeremy Johnson/ Jim Alzheimer
7	In Tank Characterization and Summary	Billie Mauss/Michael Barnes
9	Tank Operations Contract Overview	ORP TPA PMs/Jeff Lyon
18	Single-Shell Tank Corrective Action; M-045-22, M-045-50 series, M-045-60 series, and M-045-92	Chris Kemp/Jeff Lyon
19	Single-Shell Retrieval and Closure Program Tri-Party Agreement (TPA) Milestones Status; M-045-00 series	Chris Kemp/Jeff Lyon
21	Tank Waste Retrieval Work Plan Status	Chris Kemp/Jeff Lyon
22	Tank in TPA Appendix H, Status Tank Retrievals with Individual Milestones	Chris Kemp/Jeff Lyon
CD	Waste Treatment and Immobilization Plant (WTP) Overall TPA Summary and Milestone Status; see the U.S. Department of Energy, Office of River Protection Consent Decree 08-5085-FVS Monthly Summary Report for WTP Facility-specific information	Delmar Noyes/Dan McDonald

CD = Consent Decree 08-5085-FVS

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2015				
M-062-40D	Submit System Plan	10/31/2014	10/31/2014	Completed
M-062-40ZZ	Submit One Time Tank Waste Supp Treatment Technologies Report	10/31/2014	Deleted on 08/12/2014	Deleted
M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	10/31/2014	07/07/2014	Completed
M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	12/26/2014	11/14/14	Completed
M-045-61	Phase 2 RCRA Facility Investigation	12/31/2014	12/23/2014	Completed
M-045-86H	Submit Retrieval Data Report to Ecology for C-110	01/29/2015	08/06/2014	Completed
M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	01/30/2015	12/3/2014	Completed
M-045-91B-T01	Provide Ecology report on the Concrete Core from Tank A-106 or alt	01/31/2015	12/3/2014	Completed
M-062-01AD	Submit Semi-Annual Compliance Report	1/31/2015	1/29/2015	Completed
M-045-91F-T02	Provide Report of Liner Failures for SSTs	03/31/2015		On Schedule
M-062-45-T01	Comp. Neg's 6-Mo After Last Issuance of System Plan	04/30/2015		On Schedule
M-062-45-ZZ	Negotiate a One Time Supplemental Treatment Selection	04/30/2015		In Dispute
M-062-45-ZZ-A	Convert M-062-31-T01 Thru M-062-34-T01 to Interim Milestones	04/30/2015		In Dispute
M-045-91F	Provide Summary Conclusions Report on Leak Integrity	06/30/2015		On Schedule
M-045-62	Phase 2 Corrective Measures Implementation Work Plan For WMA-C	06/30/2015		To Be Missed
M-045-92O	Barrier 3 Design/Monitoring Approval From Ecology	06/30/2015		On Schedule
M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	07/28/2015		On Schedule
M-045-56K	Ecology and DOE Agree, at a Minimum, to Meet Yearly (By July)	07/31/2015		On Schedule
M-045-91H	Submit Change Pkg (if necessary) to est. Additional Milestones	07/31/2015		On Schedule
M-062-01AE	Submit Semi-Annual Compliance Report	7/31/2015		On Schedule
M-045-82	Submit Comp. Permit Modification Request for Tiers 1,2,3	09/30/2015		To Be Missed
M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	9/30/2015		On Schedule
Fiscal Year 2016				
M-045-92N	Construct Barriers 1 and 2 in 241-SX Farm	10/31/2015		On Schedule
M-062-01AF	Submit Semi-Annual Project Compliance Report	1/31/2016		On Schedule
M-047-07	CD-1 for Secondary Liquid Waste Treatment and CR for CD-2 to ECY	3/31/2016		On Schedule
M-090-13	CD-1 for Interim Hanford Storage Project and CR for CD-2 to ECY	3/31/2016		On Schedule
M-062-31-T01	Comp. Final Design & Submit RCRA Part B Permit Mod Request for Enhanced WTP & Supplemental Treatment	4/30/2016		On Schedule
M-045-92Q	Submit Barrier 4 Design/Monitoring Plan	6/30/2016		On Schedule
M-062-01AG	Submit Semi-Annual Project Compliance Report	7/31/2016		On Schedule
M-045-56L	Ecology And DOE A Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July)	7/31/2016		On Schedule

Milestone	Title	Due Date	Completion Date	Status
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AOR =	Analyses of Record.	RCRA =	Resource Conservation and Recovery Act.	
CD-1/-2 =	critical decision-1/-2	SST =	single-shell tank.	
CR =	change request.	TPA =	Tri-Party Agreement.	
DOE =	U.S. Department of Energy.	WMA-C =	Waste Management Area C.	
Ecology =	Washington State Department of Ecology.			

System Plan

M-062-40C, Select a minimum of three scenarios that will be analyzed in the system plan,

Due: December 15, 2013, Status: Completed on December 12, 2013.

M-062-40D, Submit a system plan describing the disposition of all tank waste managed by

ORP, Due: October 31, 2014, Status: Completed on 10/31/2014.

M-062-45-T01, Every six years, within six months after last revision of the System Plan,

negotiate tank waste retrieval sequencing, Due: April 30, 2015, Status: On schedule.

Significant Past Accomplishments:

1. On October 24, 2013, Washington State Department of Ecology (Ecology) and U.S. Department of Energy (DOE), Office of River Protection (ORP) signed the Tri-Party Agreement (TPA) Change Control Form M-62-13-02, moving out the due date for this embedded milestone from October 31, 2013 to December 15, 2013, for selection of three, or more, scenarios to be modeled in the System Plan.
2. Ecology has defined five scenarios to be analyzed in System Plan 7. Washington River Protection Solutions LLC (WRPS) has included a description of each scenario in the Selected Scenarios for the River Protection Project System Plan, Rev. 7 document released to ORP on December 4, 2013. See joint ORP and Ecology letter 13-TPD-0070, dated December 12, 2013, for completion and description of M-062-40C scenarios.
3. Detailed assumption review was completed, and has been approved by Ecology.
4. On February 11, 2014, DOE-ORP transmitted a letter (14-TPD-0003) to Washington River Protection Solutions LLC in response to letter (WRPS-1400313) to approve the use of Ecology's Appendix B, "Key Assumptions and Success Criteria," for the ORP 11242, River Protection Project System Plan, Rev. 7.
5. On February 13, 2014 Washington State Department of Ecology presented the five selected scenarios to the Hanford Advisory Board Tank Waste Committee.
6. Ecology, DOE-ORP and WRPS reviewed and provided comments for sections 1 and 2 of the System Plan 7 during the week of February 17, 2014.
7. Ecology, DOE-ORP and WRPS reviewed and provided comments for section 3 of the System Plan 7 during the week of March 21, 2014.
8. Ecology, DOE-ORP and WRPS reviewed and provided comments for Appendix C of the System Plan 7 during the week of April 1, 2014.
9. During the week of April 28, 2014, WRPS and DOE-ORP facilitated meetings for Ecology to define detail spending assumptions for Case 5.
10. On July 29, 2014, WRPS Case authors presented the results of the five cases to Ecology and DOE-ORP.
11. System Plan 7 was reviewed, all comments resolved and incorporated into the document.

12. On October 31, 2014, ORP transmitted System Plan 7 to Ecology.
13. ORP received Ecology's January 14, 2015 transmitted letter 15-NWP-004, regarding the Department of Ecology review of *River Protection System Plan*, ORP-11242, Revision 7.
14. DOE-ORP meet with Ecology at the Tank Farms informal TPA and CD monthly status meeting on February 25, 2015.

Significant Planned Actions in the Next 6 Months:**Issues:**

None.

Acquisition of New Facilities

M-090-13, Submit Critical Decision-1 for Interim Hanford Storage Project and TPA Change Request for CD-2 to Ecology, Due: March 31, 2016, Status: On Schedule. Created by TPA Change Control Form M-90-12-02, signed by ORP and Ecology on November 19, 2012, to "Submit to Ecology, a Conceptual Design Report Package (Critical Decision-1) for the Interim Hanford Storage Project (storage of the first two years of Hanford Site Immobilized High-Level Waste from WTP operations) and a TPA Change Request (in accordance with TPA Action Plan Section 12.0) to submit to Ecology, a Preliminary Design Report package (Critical Decision-2)."

M-090-00, Acquire/Modify Facilities for Storage of Immobilized High-Level Waste (IHLW), Due: December 31, 2019, Status: On schedule.

M-047-07, Submit CD-1 for Secondary Liquid Waste Treatment and Change Request (CR) for CD-2 to Ecology, Due: March 31, 2016, Status: On Schedule. Created by TPA Change Control Form M-47-12-02, signed by ORP and Ecology on November 19, 2012, to "Submit to Ecology, a Conceptual Design Report package (Critical Decision-1) for the Secondary Liquid Waste Treatment Project and a TPA Change Request (in accordance with TPA Action Plan Section 12.0) to submit to Ecology, a Preliminary Design Report package (Critical Decision-2)."

M-047-00, Complete Work Necessary to Provide Facilities for Management of Secondary Waste from the Waste Treatment and Immobilization Plant (WTP), Due: December 31, 2022, Status: On schedule.

Significant Past Accomplishments:

ORP and Ecology signed TPA Change Packages M-47-14-01 and M-90-14-01 on July 14, 2014 moving the due date for M-047-07 and M-090-13 to March 31, 2016.

Significant Planned Actions in the Next 6 Months:

None.

Issues:

None.

Supplemental Treatment and Part B Permit Applications

M-062-45ZZ (designation for M-062-45 item #3), Negotiate a one-time supplemental treatment selection, Due: April 30, 2015, Status: In dispute.

M-062-45ZZ-A, Convert M-062-31-T01 through M-062-34-T01 to Interim Milestones, Due: April 30, 2015, Status: In dispute.

M-062-31-T01, Complete final design and submit Resource Conservation and Recovery Act Part B permit modification request, Due: April 30, 2016, Status: On schedule.

M-062-32-T01, Start construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: April 30, 2018, Status: On schedule.

M-062-33-T01, Complete construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: April 30, 2021, Status: On schedule.

M-062-45XX, No later than December 31, 2021, the DOE and Ecology shall complete negotiations to establish a mechanism that will apply to resolve future disputes regarding the determinations in M-062-45, paragraphs 4 and 5, Due: December 31, 2021, Status: On schedule.

M-062-34-T01, Complete hot commissioning of supplemental vitrification treatment facility and/or WTP enhancements, Due: December 30, 2022, Status: On schedule.

M-062-21, Annually submit data that demonstrates operation of the WTP, Due: February 28, 2023, Status: On schedule.

M-062-00, Complete Pretreatment Processing and Vitrification of High-Level Waste and LAW Tank Wastes, Due: December 31, 2047, Status: On schedule.

Significant Past Accomplishments:

*Per ORP letter 14-TF-0052, signed by ORP on May 6, 2014 and provided to Ecology on May 7, 2014, ORP documented the ORP/Ecology discussions for the One-Time Hanford Tank Waste Supplemental Treatment Technologies Report and that ORP does not intend to submit this report. ORP received Ecology's response letter, 14-NWP-110, on May 29, 2014. ORP Letter 14-TF-0088, dated and delivered to Ecology on July 31, 2014, submitted a signed TPA Change Package to delete the requirement of the One-Time Hanford Tank Waste Supplemental Treatment Technologies Report from TPA Milestone M-062-40. Ecology signed TPA Change Package M-62-14-01 deleting M-062-40ZZ on August 12, 2014.

Significant Planned Actions in the Next 6 Months: None.

Issues: On 01/30/15, ORP provided Ecology Change Control Form M-62-14-02, which proposed adding language under TPA Milestone M-062-45 to defer negotiations required under M-062-45. Ecology did not respond, which is deemed disapproval in accordance with the TPA. In letter 15-TF-0014, dated 02/20/15, ORP initiated dispute resolution.

**242-A Evaporator Status
(previously reported under Milestone M-48, which has been closed out)**

242-A Evaporator Status:

The 242-A campaign strategy for fiscal year (FY) 2010 through FY 2015 depicted in the following table has been updated based on ORP-11242, *River Protection Project Plan* and ongoing schedule integration efforts.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY 2010	10-01	AW-106	AW-106	Campaigns 10-01/10-02 were performed back-to back starting in late August and completing in early October 2010. Campaign 10-02 was an acceleration of previously planned Campaign 11-01.
FY 2010	10-02	AW-106	AW-106	
FY 2011	N/A	N/A	N/A	No campaign conducted in FY 2011 due to ongoing 242-A and tank farm facility life extension and American Recovery and Reinvestment Act funded upgrades.
FY 2012	N/A	N/A	N/A	No campaign conducted in FY 2012 due to ongoing 242-A and tank farm facility upgrades and revision to the 242-A Documented Safety Analysis.
FY 2013	N/A	N/A	N/A	No campaigns to be conducted in FY 2013 due to ongoing 242 A and tank farm facility upgrades and revision to the 242-A Documented Safety Analysis.
FY 2014	13-01	AP-107	AP-107	Campaign started September 9, 2014. Campaign completed on October 9, 2014.
FY 2015	EC-01	AP-103 AP-104	AP-107	Estimated to begin April 2015.
FY 2015	EC-02	AZ-102	AP-103	Estimated to begin June 2015.
FY 2015	EC-03	AZ-102	AP-103	Estimated to begin August 2015.
FY 2015	EC-04	AW-106	AP-103	Estimated to begin September 2015.

FY = fiscal year.
N/A = not applicable.

Significant Planned Actions in the Next 6 Months:

The final report for tank 241-AW-102 grab sampling in support of evaporator campaign EC-01 was completed by ATL International, Inc. (RPP-RPT-58495, Rev. 1). Washington River Protection Solutions, Inc. (WRPS) is now working on drafting and issuing the process control plan and process memo for this campaign. Currently, evaporator campaign EC-01 is estimated to begin in mid-April of 2015 with a targeted waste volume reduction of 300,000 gallons.

Issues:

None.

Double-Shell Tank System UpdateVisual Inspection

- Continuing bi-weekly inspections of AY-102 waste accumulation sites.
- Continuing bi-monthly comprehensive inspection of AY-102 annulus.
- Annulus visual inspections are completed in tanks AP-102, AP-103, AP-104, AP-105, AP-106, AP-108 AW-101, AW-102, and AW-104. **This completes the FY 2015 annulus inspections for the DSTs.**

Single-Shell Tank Integrity Assurance

M-045-91F-T04, Provide to Ecology, as a Hanford Federal Facility Agreement and Consent Order secondary document, a report on the 100-series SSTs, which have been or will be identified as having leaked in RPP-32681, Rev. 0, Due: December 26, 2014, Status: Complete. RPP-RPT-54909, Hanford Single-Shell Tanks Leak Causes, Locations, and Rates: Summary Report was transmitted to Ecology on 11/14/2014 under letter 14-TF-1024.

M-045-91G-T04, Provide to Ecology the structural analyses of record final documentation for SSTs for 55,000 gallon tanks (B , C , T , and U Farms), Due: January 30, 2015, Status: Complete. RPP-RPT-49993, Single-Shell Tank Integrity Project Analysis of Record Hanford Type I Single-Shell Tank Thermal and Operating Loads and Seismic Analysis was transmitted to Ecology on 12/03/2014 under letter 14-TF-0128

M-045-91B-T01, Provide Ecology a report containing the results and interpretation of testing and analysis, performed on the concrete core obtained from Tank A-106 or an alternate tank, Due: January 31, 2015, Status: Complete. RPP-RPT-58254, Concrete Core Testing Report for the Single-Shell Tank 241-A-106 Sidewall Coring Project was transmitted to Ecology on 12/03/2014 under letter WRPS-140473214-TF-0127.

M-045-91F-T02, Provide to Ecology as a Hanford Federal Facility Agreement and Consent Order secondary document a report evaluating the common factors of liner failures for SSTs that have leaked and will provide recommendations as appropriate, such as enhanced leak detection, monitoring, and mitigation, Due: March 31, 2015, Status: On schedule. RPP-RPT-55804, Common Factors Relating to Liner Failures in Single-Shell Tanks, was transmitted from WRPS to ORP on 01/13/2015 under letter WRPS-1500061.

M-045-91F, Provide to Ecology a report (Summary Conclusions Report on Leak Integrity) summarizing and evaluating the information submitted under M-045-91F-T01 through M-045-91F-T04, Due: June 30, 2015 Status: On schedule.

M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record for SSTs, Due: July 28, 2015, Status: On schedule.

M-045-91H, Submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones based on information obtained from the actions in the preceding M-045-91 series of milestones to date, Due: July 31, 2015, Status: On schedule.

M-045-91I, Provide to Ecology an Independent, Qualified, Registered Professional Engineer (IQRPE) certification of SSTs structural integrity for the remainder of the mission, or for such time as the IQRPE believes he/she can reasonably certify, Due: September 30, 2018, Status: On schedule.

Significant Past Accomplishments:

Significant Planned Actions in the Next 6 Months:

Issues:

Planning and discussion for M-045-91H to submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones for Phase II of the Single-Shell Tank Integrity Project needs to begin.

In Tank Characterization and Summary

For the period from February 1 through February 28, 2015:

Accomplishments:

- Completed RPP-RPT-44814, *Derivation of Best-Basis Inventory for Tank 241-AN-101 as of January 1, 2015*, Rev 17.
- Completed RPP-RPT-48103, *Derivation of Best-Basis Inventory for Tank 241-AP-107 as of January 1, 2015*, Rev 4.
- RPP-RPT-58424, *Final Analytical Report for Solid Waste Taken from Tank 241-C-111 Failed Sluicer*, Rev 0, was released February 3, 2015.
- LAB-PLN-15-00001, *Boildown Testing on Evaporator Feed Retrieved from Tank 241-AW-102 in January, 2015*, Rev 0, was released February 3, 2015.
- RPP-RPT-58494, *Final Report for Tank 241-C-107 Post-Retrieval Waste Solid Samples in Support of Tank Closure*, Rev 0, was released February 10, 2015.
- RPP-RPT-58495, *Final Report for Tank 241-AW-102 Grab Sampling in Support of Evaporator Campaign EC-01, 2015*, Rev 0, was released February 18, 2015.
- Performed 241-SY-102 core sampling from February 10, 2015, through February 20, 2015. Four core segments were received at the lab.

Planned Action within the Next 6 Months:***Tank sampling:***

- Tank 241-C-112 clamshell or fingertrap sampling is planned for March 2015.
- Tank 241-AP-101 grab sampling is planned for April 2015.
- Tank 241-SY-103 rotary mode core sampling is planned for April 2015.
- 241-C-105 fingertrap sampling is planned for April/May 2015.
- Tank 241-AP-105 grab sampling is planned for May 2015.
- Tank 241-C-101 ORSS closure sampling is planned for May 2015.
- Tank 241-C-102 caustic preconditioning and dissolution process sampling is planned for May/June 2015.
- Tank 241-AZ-102 (EC-03) grab sampling is planned for June 2015.
- Tank 241-AN-101 grab sampling at C-102 100% retrieval is planned for July 2015.
- Tank 241-AP-107 grab sampling is planned for July 2015.

Best-Basis Inventory (BBI) updates:

BBI updates for the following tanks were completed in February:

- 241-AN-101
- 241-AP-107

BBI updates for the following tanks are planned to be completed in March:

- 241-A-102
- 241-AP-103
- 241-AP-104
- 241-AW-102
- 241-AY-102
- 241-AZ-102
- 241-C-107

Data Quality Objectives (DQO):

RPP-RPT-58299, *Data Quality Objectives for Sampling and Analysis of Tank Farm Stack Odorous Chemical Vapor Emissions*, Rev 0, in support of dispersion modeling will be released in March.

RPP-44057, *Data Quality Objectives to Support Strategic Planning*, Rev 2, is planned to be released in March to obtain data that will be used to update the BBIs.

Issues:

None.

TANK OPERATIONS CONTRACT OVERVIEW

Project Performance

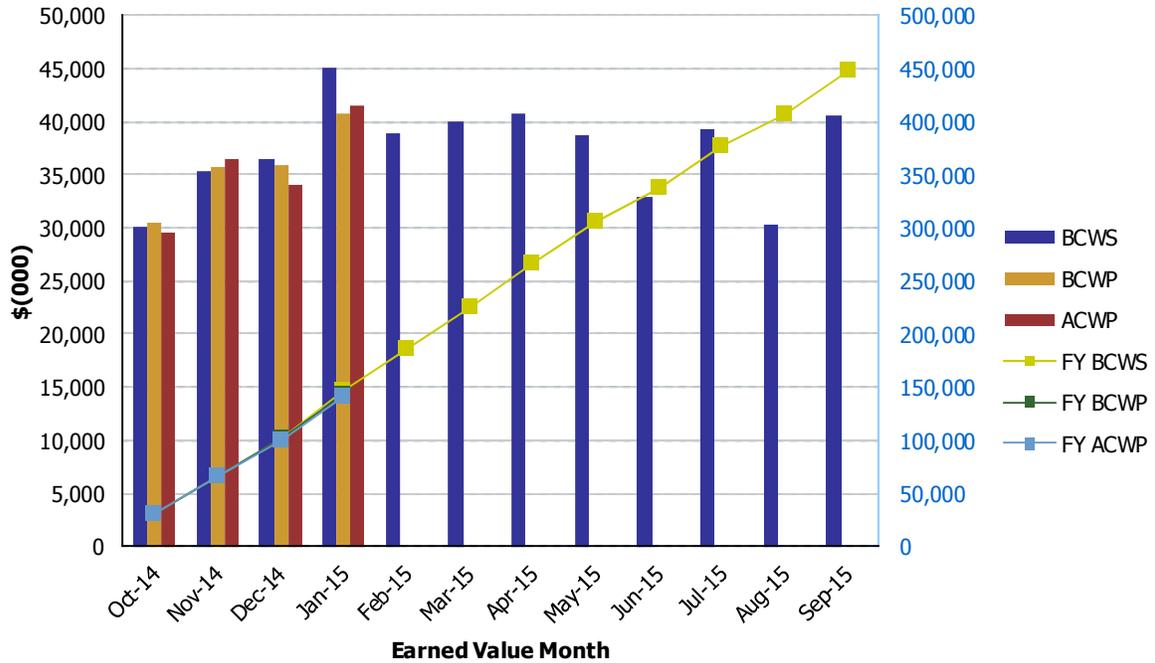
The earned value performance reporting reflects the format, work breakdown structure reporting levels, and variance thresholds as agreed to with the tank operations contractor for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing TPA milestones.

Through January 31, 2015, Washington River Protection Solutions LLC (WRPS) worked 1,270,197 hours (103 days) without a Lost Time Workday Injury and 242,817 hours (19 days) since the last Recordable case. There was one recordable cases in January, and no Days Away, Restricted, or Transferred (DART) cases.

January-15										
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	45,082.5	40,696.8	41,603.0	(4,385.7)	(906.2)	0.90	0.98			
FYTD	146,757.3	142,732.9	141,605.0	(4,024.4)	1,127.9	0.97	1.01			
CTD	2,490,662.9	2,461,212.7	2,442,550.8	(29,450.2)	18,661.9	0.99	1.01	3,359,206.5	3,340,509.4	18,697.1

Tank Farms ORP-0014

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 2014	\$30,052	\$30,480	\$29,607	1.01	1.03	\$30,052	\$30,480	\$29,607	1.01	1.03
Nov 2014	\$35,246	\$35,697	\$36,417	1.01	0.98	\$65,298	\$66,178	\$66,024	1.01	1.00
Dec 2014	\$36,377	\$35,858	\$33,978	0.99	1.06	\$101,675	\$102,036	\$100,002	1.00	1.02
Jan 2015	\$45,083	\$40,697	\$41,603	0.90	0.98	\$146,757	\$142,733	\$141,605	0.97	1.01
Feb 2015	\$38,857					\$185,614				
Mar 2015	\$40,086					\$225,700				
Apr 2015	\$40,835					\$266,535				
May 2015	\$38,696					\$305,231				
Jun 2015	\$32,903					\$338,134				
Jul 2015	\$39,299					\$377,433				
Aug 2015	\$30,193					\$407,626				
Sep 2015	\$40,628					\$448,254				
CTD	\$2,490,663	\$2,461,213	\$2,442,551	0.99	1.01					

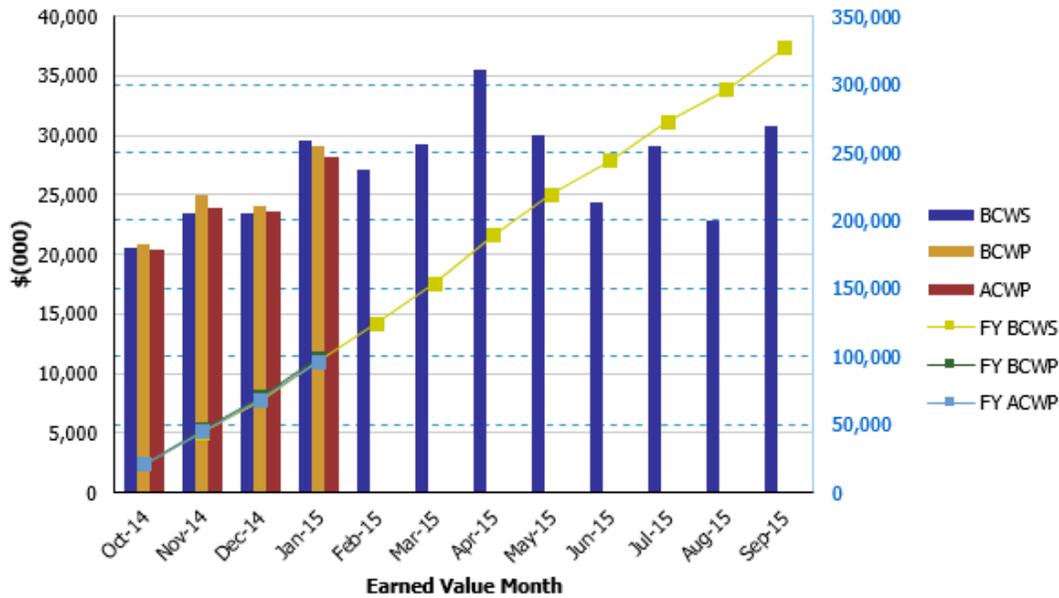
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2015 Earned Value Data

Data as of: January 2015

Tank Farms ORP-0014
Base Operations 5.01

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 2014	\$20,627	\$20,833	\$20,428	1.01	1.02	\$20,627	\$20,833	\$20,428	1.01	1.02
Nov 2014	\$23,471	\$24,930	\$23,988	1.06	1.04	\$44,098	\$45,762	\$44,417	1.04	1.03
Dec 2014	\$23,467	\$24,105	\$23,547	1.03	1.02	\$67,565	\$69,867	\$67,964	1.03	1.03
Jan 2015	\$29,511	\$29,162	\$28,218	0.99	1.03	\$97,075	\$99,029	\$96,181	1.02	1.03
Feb 2015	\$27,115					\$124,191				
Mar 2015	\$29,267					\$153,457				
Apr 2015	\$35,582					\$189,039				
May 2015	\$30,043					\$219,082				
Jun 2015	\$24,437					\$243,519				
Jul 2015	\$29,176					\$272,695				
Aug 2015	\$22,875					\$295,570				
Sep 2015	\$30,751					\$326,321				
CTD	\$1,634,503	\$1,624,871	\$1,603,865	0.99	1.01					

Base Operations and Tank Farm Projects

The current month unfavorable schedule variance (SV) of (\$349K) is due to the following:

- Tank AZ-101 pump replacement delays due to increase respiratory protection requirements.

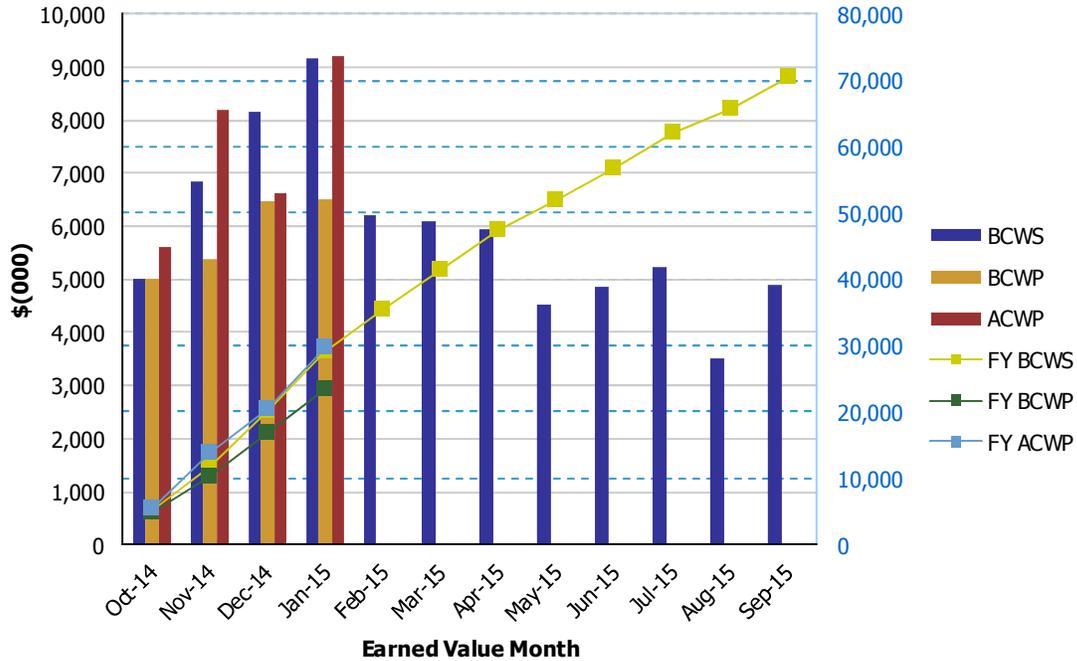
The current month favorable cost variance (CV) of \$944K is primarily due to the following:

- Annual Visual Inspection were completed with less equipment than planned

- DST transfers completing faster than planned.

**Tank Farms ORP-0014
Retrieve and Close SST's 5.02**

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 2014	\$5,024	\$5,011	\$5,609	1.00	0.89	\$5,024	\$5,011	\$5,609	1.00	0.89
Nov 2014	\$6,852	\$5,392	\$8,174	0.79	0.66	\$11,876	\$10,403	\$13,783	0.88	0.75
Dec 2014	\$8,171	\$6,453	\$6,612	0.79	0.98	\$20,047	\$16,856	\$20,395	0.84	0.83
Jan 2015	\$9,167	\$6,524	\$9,195	0.71	0.71	\$29,215	\$23,380	\$29,589	0.80	0.79
Feb 2015	\$6,205					\$35,419				
Mar 2015	\$6,095					\$41,514				
Apr 2015	\$5,926					\$47,440				
May 2015	\$4,509					\$51,949				
Jun 2015	\$4,852					\$56,800				
Jul 2015	\$5,238					\$62,039				
Aug 2015	\$3,527					\$65,565				
Sep 2015	\$4,886					\$70,451				

CTD	\$534,714	\$518,797	\$538,933	0.97	0.96
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Retrieval and Close Single-Shell Tanks

The current month unfavorable cost variance (CV) of (\$2,671K) is due to:

- SST Retrieval Operations Training and Qualifications for hiring additional IHTs and HPTs in support of AY-102 and A/AX construction

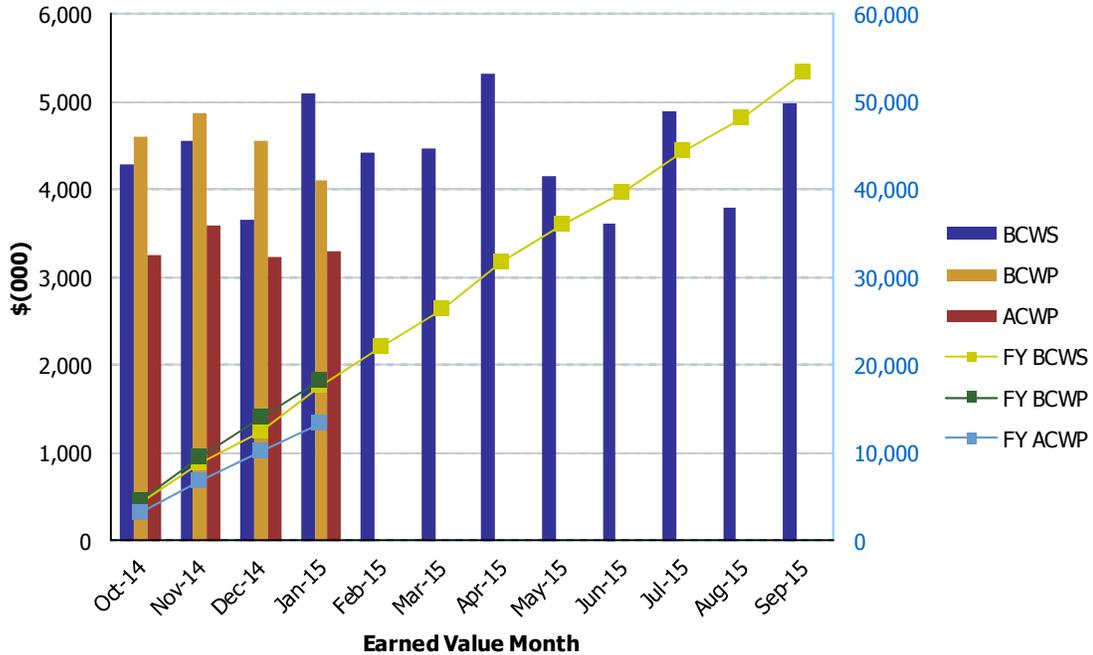
- C-102 Retrieval and limitations of SCBA from the mask cleaning vendor
- C-105 Retrieval and awaiting the removal and replacement of the plugged slurry distributor in AN-106
- Installation of POR-126 and POR-127 exhausters at A/AX Tank Farm
- A/AX support facility bathrooms, change trailers, and new SCBA bottle stations

The current month unfavorable schedule variance (SV) of (\$2,644K) is due to:

- Additional new requirements set forth from SRNL-RP-2014-00791 “Hanford Tank Vapor Assessment Report”
- C-111 retrieval subcontract delays in the ERSS replacement procurement due to issues encountered during testing and swapping to nitrile hoses
- C-112 retrieval data report sampling impacted by limited work crew availability under the enhanced vapor control protection
- Upgraded SCBA storage capability to keep SCBA regulators above 40F, and cleaning capability at the mask cleaning vendor

Tank Farms ORP-0014
Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure 5.03

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 2014	\$4,277	\$4,605	\$3,261	1.08	1.41	\$4,277	\$4,605	\$3,261	1.08	1.41
Nov 2014	\$4,549	\$4,876	\$3,585	1.07	1.36	\$8,826	\$9,480	\$6,846	1.07	1.38
Dec 2014	\$3,652	\$4,559	\$3,229	1.25	1.41	\$12,478	\$14,040	\$10,075	1.13	1.39
Jan 2015	\$5,101	\$4,113	\$3,308	0.81	1.24	\$17,579	\$18,152	\$13,383	1.03	1.36
Feb 2015	\$4,411					\$21,990				
Mar 2015	\$4,459					\$26,449				
Apr 2015	\$5,327					\$31,776				
May 2015	\$4,145					\$35,921				
Jun 2015	\$3,615					\$39,536				
Jul 2015	\$4,882					\$44,417				
Aug 2015	\$3,792					\$48,209				
Sep 2015	\$4,991					\$53,200				

CTD	\$294,148	\$290,716	\$273,728	0.99	1.06
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Waste Feed Delivery/Treatment/Double-Shell Tank Retrieval Closure

The current month unfavorable schedule variance (SV) of **(\$988K)** is due to:

- WTP Operational Readiness Program Management – work beginning earlier in the year than planned for WTP design review work scope, performance taken in December.
- IDF Glass Testing – delays in starting reports supporting performance assessments (PA) and eStomp model verification and validation for PA analysis.
- Secondary waste form development –delays in PNNL support for waste form development, performance assessment and waste form qualification support.

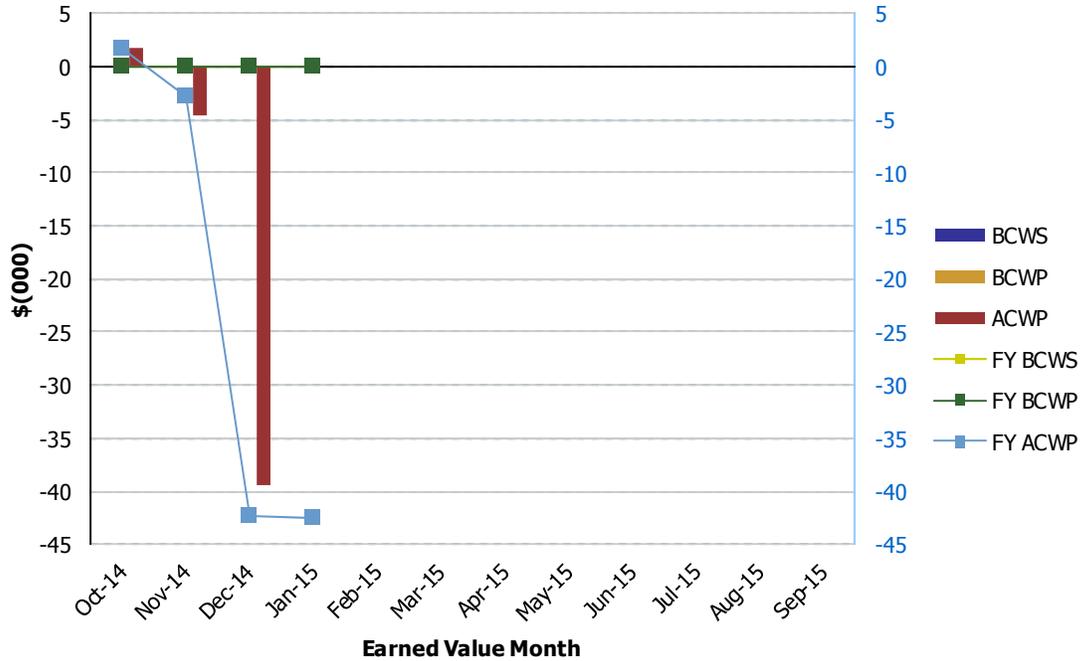
- Technology development – delays in starting formulation development and actual waste testing for secondary waste form testing by PNNL.

The current month favorable cost variance (CV) of \$805K is due to:

- WTP Interface Management – labor efficiencies with reduced labor resources required by utilizing experienced personnel with historical knowledge.
- Technology Development – performance of Tc removal primary resin development and DF LAW recycle by SRNL using IEWO not included in the TOC financial system.
- WFD Sampling – unfavorable cost variance due to additional labor resources to address electrical problems on sampling platform and sampler hanging up on drill string. Work scheduled to be complete late February.
- RPP System Plan – labor, computer hardware and subcontracts with reduced chemist and chemical engineering support than planned. Based on staff knowledge and experience along with not pursuing computer upgrades.
- WFD Technical Baseline – unfilled vacancies for LOE work supporting WFD technical baseline. Hiring underway for 3 engineers and 21 admin.

**Tank Farms ORP-0014
Supplement Treatment 5.04**

EVMS Monthly and Fiscal Year Values



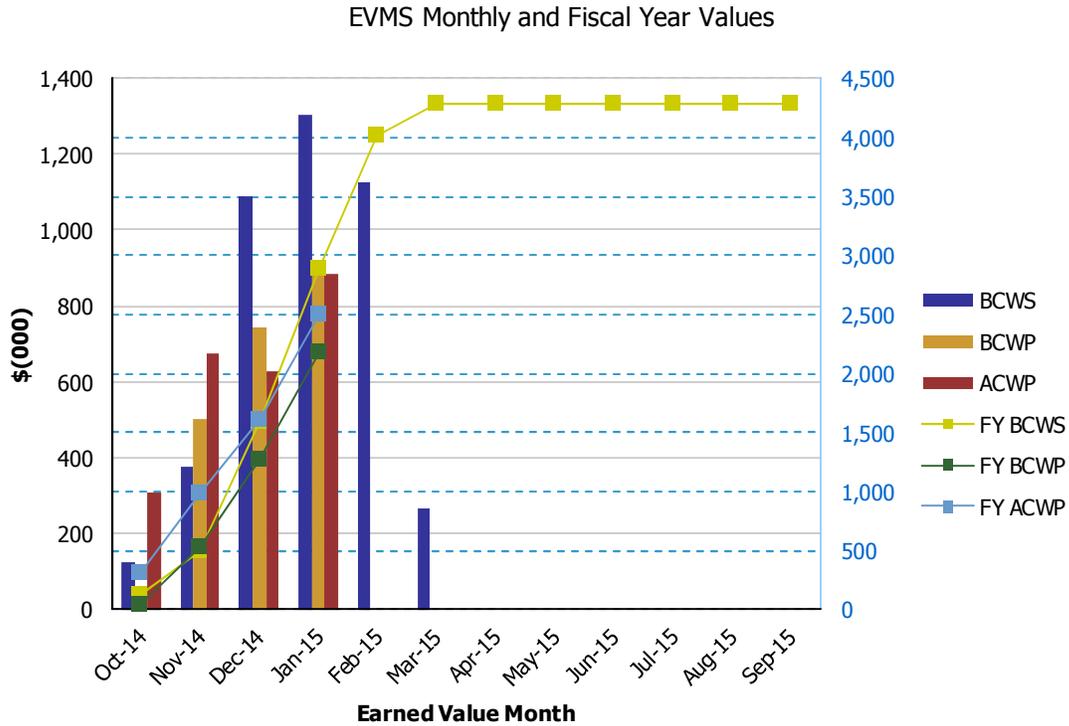
Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2014	\$0	\$0	\$2	0.00	0.00	\$0	\$0	\$2	0.00	0.00
Nov 2014	\$0	\$0	(\$5)	0.00	0.00	\$0	\$0	(\$3)	0.00	0.00
Dec 2014	\$0	\$0	(\$39)	0.00	0.00	\$0	\$0	(\$42)	0.00	0.00
Jan 2015	\$0	\$0	\$0	0.00	0.00	\$0	\$0	(\$43)	0.00	0.00
Feb 2015	\$0									
Mar 2015	\$0									
Apr 2015	\$0									
May 2015	\$0									
Jun 2015	\$0									
Jul 2015	\$0									
Aug 2015	\$0									
Sep 2015	\$0									
CTD	\$20,110	\$20,110	\$19,136	1.00	1.05					

Supplemental Treatment

The current month favorable schedule variance (SV) of \$0K is within the reporting threshold.

The current month favorable cost variance (CV) of \$0K is within the reporting threshold.

**Tank Farms ORP-0014
Treat Waste 5.5**



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2014	\$124	\$32	\$308	0.26	0.10	\$124	\$32	\$308	0.26	0.10
Nov 2014	\$374	\$500	\$674	1.34	0.74	\$498	\$532	\$982	1.07	0.54
Dec 2014	\$1,087	\$741	\$628	0.68	1.18	\$1,585	\$1,273	\$1,610	0.80	0.79
Jan 2015	\$1,304	\$899	\$883	0.69	1.02	\$2,889	\$2,172	\$2,493	0.75	0.87
Feb 2015	\$1,126					\$4,015				
Mar 2015	\$267					\$4,282				
Apr 2015	\$0					\$4,282				
May 2015	\$0					\$4,282				
Jun 2015	\$0					\$4,282				
Jul 2015	\$0					\$4,282				
Aug 2015	\$0					\$4,282				
Sep 2015	\$0					\$4,282				
CTD	\$7,188	\$6,718	\$6,890	0.93	0.98					

Treat Waste

The current month unfavorable schedule variance (SV) of **(\$405K)** is due to:

- LAWPS Design – additional effort on technical white papers and documentation of project decisions to support preliminary design following CD-1 approval.

The current month favorable cost variance (CV) of \$16K is within the reporting threshold.

Work Breakdown Structure 5.2 Retrieve and Close Single-Shell Tanks

M-045-22, Review M-045-22-T03 Report and Determine Path Forward, Due: September 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: Complete. Ecology and ORP agreed at the September 25, 2014 TPA Project Managers' meeting that this milestone was closed, though M-045-92 remains open.

M-045-22-T01, Submit Results of Vadose Zone Characterization of 241-TX to Ecology, Due: September 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: Complete. ORP submitted this deliverable to ECY on September 17, 2014, via letter 14-TF-0100.

M-045-22-T02, Submit Results of Vadose Zone Characterization of 241-U to Ecology, Due: April 30, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: Complete. ORP submitted this deliverable to ECY on February 20, 2014, via letter 14-TF-0015.

M-045-22-T03, Submit SX Soil Desiccation/Contaminate Removal Tech Results to Ecology, Due: July 31, 2014, based on M-045-20 TPA Change Package M-45-12-05, Status: Complete. ORP submitted this deliverable to ECY on May 15, 2014, via letter 14-TF-0054.

M-045-56J, Complete Implementation of Agreed to Interim Measures, Due: July 31, 2014, Status: Complete. The M-045-56 annual meeting was held on July 22, 2014 and meeting minutes have been entered into the Administrative Record.

M-045-56K, Complete Implementation of Agreed to Interim Measures, Due: July 31, 2015, Status: On schedule.

M-045-59, Control surface water infiltration pathways as needed to control or significantly reduce the likelihood of migration of subsurface contamination to groundwater at the SST Waste Management Areas (WMA) (pending the Corrective Measures Study report, Milestone M-45-58, and implementation of other interim corrective measures), Due: To be determined, Status: On schedule.

M-045-61, Submit to Ecology in accordance with the HFFACO Secondary document review process a Phase 2 RCRA Facility Investigation (RFI) Report Draft A for WMA Area C (WMA-C), Due: December 31, 2014, Status: Complete. The Phase 2 RCRA Facility Investigation Report Draft A for WMA-C, RPP-RPT-58339, was transmitted to Ecology on December 23, 2014, via letter 14-TF-0131. This milestone was modified by HFFACO change package M-45-14-03, signed October 1, 2014.

M-045-61A, Submit to Ecology for review and approval as an Agreement primary document, document review process, a Phase 2 Corrective Measures Study, and revision 0 update to the RFI Report for WMA-C), Due: December 31, 2016, Status: On Schedule. The Phase 2 RCRA Facility Investigation Report Draft A for WMA-C, RPP-RPT-58339, was transmitted to Ecology on December 23, 2014, via letter 14-TF-0131. This milestone was created by HFFACO change package M-45-14-03, signed October 1, 2014.

M-045-62, Submit to Ecology for review and approval as an agreement primary document a Phase 2 Corrective Measures Study Implementation Plan for WMA-C, Due: June 30, 2015, Status: To be missed. Please see issues.

M-045-92, Complete Installation of Four (4) Additional Interim Barriers (see interim milestones below), Due: October 31, 2017, Status: On schedule.

M-045-92N, Construct Barriers 1 and 2 in 241-SX Farm, Due: October 31, 2015, Status: On schedule.

M-045-92O, Submit a Final Design and Monitoring Plan for Interim Barrier 3, Due: June 30, 2015, Status: On schedule.

Significant Past Accomplishments:

- Automated data collection systems for T Farm and TY Farm interim barrier monitoring continue gathering data
- Documentation of the WMA-C Phase 2 Resource Conservation and Recovery Act Facility Investigation Report was completed, and RPP-RPT-58339 was transmitted to Ecology on December 23, 2014, completing M-045-61.

Significant Planned Actions in the Next 6 Months:

- Provide the annual interim barrier monitoring report for information collected in 2014.

SST Retrieval and Closure Program

M-045-82, Submit complete permit mod requests for Tiers 1, 2, and 3 of the SST, Due: September 30, 2015, Status: To be missed. Please see issues.

M-045-84, Complete negotiations of TPA interim milestones for closure of second WMA, Due: January 31, 2017, Status: On schedule.

M-045-83, Complete the closure of WMA-C, Due: June 30, 2019, Status: On schedule.

M-045-85, Complete negotiations of TPA interim milestones for closure of remaining WMAs, Due: January 31, 2022, Status: On schedule.

M-045-70, Complete waste retrieval from all remaining SSTs, Due: December 31, 2040, Status: On schedule.

M-045-00, Complete closure of all SST farms, Due: January 31, 2043, Status: On schedule.

M-045-86, Submit retrieval data report to Ecology for 19 tanks retrieved, Due: To be determined (12 months after retrieval certification), Status: On schedule.

- M-045-86C: Retrieval Data Report for C-104 was due March 21, 2014. Completed on February 18, 2014 with letter 14-TF-0013
- M-045-86F: Retrieval Data Report for C-108 was due May 1, 2014. Completed on November 27, 2013 with letter 13-TF-0120
- M-045-86G: Retrieval Data Report for C-109 was due June 4, 2014. Completed on March 13, 2014 with letter 14-TF-0020
- M-045-86H: Retrieval Data Report for C-110 was due January 29, 2015. Completed on August 6, 2014 with letter 14-TF-0086.

Significant Past Accomplishments:

- Submitted the Retrieval Data Report for C-110
- Completed post-retrieval logging of the drywells near C-104, C-109, and C-110 to support the retrieval data reports
- See discussions above and related discussions in Consent Decree report.

Significant Planned Activities in the Next 6 Months:

- Completed the post-retrieval sampling and analysis of C-107 to support the retrieval data report.
- Initiate a performance assessment for WMA A/AX.

Issues:

A new deliverable date for the Corrective Measures Implementation Plan, M-045-62, will need to be established based on the modification to milestone M-045-61 and M-045-61A. ORP and Ecology continue to meet to develop an integrated path forward that addresses all the deliverables associated with Milestone M-045-82.

Tank Waste Retrieval Work Plan Status

Tank	TWRWP	Expected Revisions	First Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 8	Complete	Modified Sluicing with ERSS	High-Pressure Water deployed with the ERSS	-
C-102	RPP-22393, Rev. 7	In Process	Modified Sluicing with ERSS	High-Pressure Water deployed with the ERSS	-
C-104	RPP-22393, Rev. 7	Complete	Modified Sluicing	Chemical Retrieval Process complete per 13-TF-0018	-
C-105	RPP-22520, Rev. 8	Complete	MARS-V	MARS-V-High Pressure Water Spray	-
C-107	RPP-22393, Rev. 7	Complete	MARS-S	MARS-S -High Pressure Water Spray	Water Dissolution
C-108	RPP-22393, Rev. 7	Complete	Modified Sluicing	Chemical Retrieval Process complete per 13-TF-0025	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Retrieval Process complete per 13-TF-0037	-
C-110	RPP-33116, Rev. 3	Complete	Modified Sluicing	Mechanical Waste Conditioning with an In-Tank Vehicle	High Pressure Water
C-111	RPP-37739, Rev. 2	Complete	Modified Sluicing	High pressure water using the ERSS	Chemical Dissolution Process with ERSS
C-112	RPP-22393, Rev. 7	Complete	Modified Sluicing	Chemical Retrieval Process	-

ERSS = Extended Reach Sluicing System.
MARS = Mobile Arm Retrieval System.
S = sluicing.
TWRWP = Tank Waste Retrieval Work Plan.
V = vacuum.

Significant Accomplishments:

None.

Significant Planned Activities in the Next 6 Months:

None.

Issues:

None.

Tank in Appendix H, “Status - Single Shell Waste Retrieval Criteria”

Tank 241-C-106

Significant Past Accomplishments:

None.

Significant Planned Activities in the Next 6 Months:

Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A request for additional information was received from the NRC in February 2009.

Issues:

It has been discussed with the NRC that much of the additional information requested is dependent upon development of C Farm residual waste Performance Assessment (PA) and, therefore, cannot be provided until the PA is published.

Tank Retrievals with Individual Milestones

Tank 241-A-103

M-045-15, Completion of Tank A-103 SST Waste Retrieval, Due: September 30, 2022, Status: On schedule. Change Package M-45-11-04 replaced Tank S-102 with Tank A-103 and changed the milestone completion date for M-045-15 to September 30, 2022.

M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I, Due: September 30, 2022, Status: On schedule. Updated with Tank A-103 and due date of September 30, 2022, per Change Package M-45-11-04.

M-045-15D, Embedded Milestone, if appropriate, DOE will request an exception to waste retrieval criteria pursuant to Agreement Appendix H, Due: September 30, 2022, Status: On schedule. Updated with Tank A-103 and due date of September 30, 2022, per Change Package M-45-11-04.

Significant Past Accomplishments:

Change Package M-45-11-04 was signed by ORP and Ecology on April 19, 2011.

No significant planned activities in the next 6 months and no issues for Tank 241-A-103.

Tank 241-S-112

M-045-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project, Due: To be determined (in accordance with M-045-84 or M-045-85), Status: On schedule.

M-045-13E, Complete Negotiations for Interim Milestones for Closure of S-112, Due: To be determined, Status: On schedule as part of M-045-84 or M-045-85.

Significant Past Accomplishments:

Ecology letter of January 7, 2008, concurred with ORP that retrieval of Tank S-112 is complete.

No significant planned activities in the next 6 months and no issues for Tank 241-S-112.