Central Plateau
Tri-Party Agreement Milestone Review
Meeting Minutes
April 22, 2010

Approval: _____ Date: 5/20/10
J. Hedges
Ecology IAMIT Representative

Approval: _____ Date: 5/20/10
M.S. McCormick
DOE IAMIT Representative, Chairperson

Approval: _____ Date: 5/20/10
D.A. Faulk
EPA IAMIT Representative

Minutes Prepared by: _____ Date: 5/21/10
T.W. Noland
Mission Support Alliance, LLC

Black D.G.*	CHPRC
Bond, R.*	Ecology
Bohnee, G.	NPT
Buelow, L.C.	EPA
Call, P.K.	RL
Cameron, C.E.*	EPA
Chapin, D.H.*	RL
Charboneau, B.L.	RL
Cimon, S.*	ODE
Collins, M.S.*	RL
Donnelly, J.W.	WCH
Einan, D.R.*	EPA
Engelmann, R.H.	CHPRC
Farabee, O.A.*	RL
Faulk, D.A.	EPA
Foley, B.L.	RL
Foss, D.L.*	CHPRC
Franco, J.R.	RL
Gadbois, L.E.	EPA
Goswami, D.	Ecology
Harris, S.	CTUIR
Hedges, J.	Ecology
Holten, R.A.	RL
Jaraysi, M.N.	CHPRC
Jim, R.	Yakama
Jones, M.E.	Ecology
Knox, K.E.*	KCR
Louie, C.S.*	RL
Matthews, J.*	Nez Perce
Mattlin, E.M.*	RL
McCormick, M.S.*	RL
Menard, N.M.*	Ecology
Morrison, R.D.*	YAH
Morse, J.G.	RL
Niles, K.	OOE
Noland, T.W.*	FFS
Piippo, R.E.*	CHPRC
Potter, R.D.	MSA
Price, J.B.*	Ecology
Richey, S.A.*	CHPRC
Romine, L.D.	RL
Russell, R.W.	ORP
Singleton, D.G.*	Ecology
Skinnarland, E.R.*	Ecology
Vanni, J.	Yakama
Voogd, M.J.	RL
Weil, S.R.	RL
Whalen, C.*	Ecology
Wilkinson, R.E.	CHPRC
Williams, J.D.*	CHPRC
Wise, B.K.	MSA
Administrative Record	

*Attendees

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PFP Closure Project - TPA Milestone M-083-00

DOE-RL provided a status of the milestones, accomplishments, planned activities, and schedule and cost performance. The two remaining milestones, M-83-43 and M-83-45 are on schedule.

Accomplishments

The two-story west gallery gloveboxes in PRF have been cleaned out, and the second floor of the east gallery glovebox cleanout is now complete. Waste handling capability has been improved at PFP with the modification of a door, enabling the trucks to back in and load the gloveboxes directly instead of using a crane. To date, 50 gloveboxes or hoods have been removed from the 234-5Z facility.

Planned Activities

The intent is to complete demolition of the three operation control facilities (OCF), 2701-ZA, 2701-ZD and 2705-Z by the end of this fiscal year, or sooner.

Issues

There were no regulatory or non-regulatory issues listed on the handout. However, RL did provide a briefing on two issues. A field citation for an underground diesel tank was issued last week by EPA. During EPA's underground storage inspection, it was noted that there was no overflow protection on the diesel tank. Administrative controls will be set up to allow only 25 gallons in the tank at one time. RL noted that the tank will likely not be needed much longer. RL reported that there is a non-regulatory issue regarding the effort to get some of the gloveboxes in the RMA/RMC line down to low level waste. The contractor has been researching different decontamination solutions to help get the gloveboxes to low level waste. The current decontamination solution, RadPro, has not achieved the reduction to low level waste. If the gloveboxes are categorized as transuranic (TRU) waste, they will have to be size-reduced, which is more costly and poses a hazard to the workers. The decontamination solution that is being researched is called Aspergel. A spray bottle containing the solution is bagged inside the glovebox and then sprayed on the interior surface. Rags are used to wipe down the surface and remove the contamination. The rags will be managed as required if they are determined to be TRU waste. The Defense Nuclear Facilities Safety Board (DNFSB) has been involved with this issue, and there are two upcoming conference calls with the board regarding their concerns with the decontamination solutions.

TPA Milestone M-026-01T - Land Disposal Restrictions Report

RL provided a status on the LDR annual report and the actions planned for the next three months. The full LDR report is in RL concurrence to send to Ecology and EPA by April 30, 2010.

Regarding the site-specific LDR variance for the PNNL barium waste which was approved by Ecology, RL stated that the barium will likely be disposed of in the mixed waste trenches.

Ecology indicated that their review on the variance on beryllium waste did not result in any significant comments, but there were questions about the amount of waste generated. Ecology will provide their comments when responses to their questions are received.

TPA Quarterly Milestone Review M-91 Series

Significant Accomplishments

Regarding the M-91-45 negotiations, a tentative agreement has been signed which addresses the TBDs, and it will go out for public comment May 3, 2010.

RL reported on two issues associated with M-91-40 retrieval in the 3A burial ground and 4B burial ground in trench 11. A concern was raised over a trench adjacent to trench 11, and retrieval was stopped for over two months. When work restarted in trench 11 on February 1, 2010, there appeared to be a glovebox that was not in a container, and sand was falling into one of the glove ports. Work was stopped and then restarted three days later. On February 4, 2010, an excavator operator felt something as he was working and backed away, and several workers noticed two dust emissions coming from the ground. It is still undetermined what the dust emissions were, and work was shut down.

RL noted that the trenches encountered so far have had the waste containers placed in an orderly manner, whereas it appears that the containers in trench 11 were pushed in by a bulldozer, creating more difficult conditions for retrieval. A series of corrective actions have been identified, and most of them have been completed. The intent is to start working in trench 17 in early May, and possibly start excavating in trench 11, or another trench, later in May.

Next generation retrieval is anticipated to start in August 2010. Retrieval and processing equipment will staged at the waste site instead of bringing the waste to a facility for processing. The waste will be processed into a WIPP-compliant form.

Actions Planned for the Next Six Months

Yakama Nation inquired about the Central Characterization Project (CCP). RL explained that the CCP is run by a contractor from Carlsbad, New Mexico, and that contractor is responsible for certifying that TRU waste is compliant with WIPP waste acceptance criteria. CCP has been used throughout the country, and the decision was made last year to bring the program to the Hanford

Site.

Soil and Groundwater Remediation Project Milestone Review - M-15-00, M-16-00, M-24-00

Milestone Status

RL reported that a tentative agreement on new M-15 milestones has been signed, and it will go out for public comment from May 3 to June 17, 2010. A three-page handout was provided listing the new milestones and the proposed milestones. CHPRC noted that two milestones were completed in the last quarter, M-15-44B and M-15-54. RL indicated that the Tri-Parties should be working towards the new milestones in the tentative agreement. Yakama Nation inquired about receiving information early in the process (i.e. draft documents for review, DQO process) to aid in planning for its staffing. RL responded that it is developing an interface plan, which will include a schedule, for tribal interactions. RL will provide Yakama Nation and Nez Perce tribes a status on the interface plan.

Significant Accomplishments

200-MG-1/2

Ecology asked when RL would be transmitting the Removal Action Work Plan (RAWP) for the 200-MG-1 Outer Area waste sites. RL will provide Ecology with a date.

200 North Remediation - 212-N, -P and -R Facilities/Structures

EPA and Ecology toured the completed removal action demolition for N, P and R facilities. EPA indicated there were no problems noted during the tour, but it plans to do an internal review of the pictures showing the contouring.

100-HR-3

Yakama Nation inquired about lessons learned from the water released at 100-D due to a water main that broke, and if the intent is to put in a well. RL will determine the status and provide a response to Yakama Nation.

RL-30 and RL-40 Cost and Schedule Performance

RL-30, contract-to-date is about two million dollars behind schedule and about 9.7 million underspent in base work. For ARRA funding, contract-to-date is ahead of schedule and about 7.7 million underspent. RL-40, contract-to-date for base and ARRA funding is slightly behind schedule, but underspent. Ecology inquired about RL-30 base 30.31 (pg 17) regarding multi-incremental sampling. CHPRC responded that multi-incremental sampling was started on April 20, 2010, and 19 loads have been removed off the waste site. The delay with the multi-incremental sampling was associated with the nuclear safety work because the waste site was

determined to be over a Hazard Category 3. Documentation has been completed to indicate it was acceptable to proceed. Ecology noted that they were not aware that the multi-incremental sampling had been initiated and had planned to be present to observe. CHPRC will provide Ecology with an estimated completion date for both waste sites.

Planned Activities Next Six Months

U-Zone Remediation

Demolition is planned to start within the next two weeks at U-Ancillary Facilities, assuming the waiver is approved to leave some of the asbestos in place. Since the U-Canyon crane has been repaired, 22 cells have been filled and grouting of the cells will be initiated. The Nez Perce Tribe inquired about how the cells are grouted and how the cell drains will be addressed from the standpoint of long-term integrity. RL responded that there are no drains outside the buildings. The inter-cell drain connections will be used to allow the grout to flow through, or in some cases the connections will be plugged to control the flow of grout. EPA added that the cells drain into the deep cell tent. RL offered to provide the Nez Perce an online link to the engineering study on the grout placement.

200 North Remediation

EPA inquired about the status of the Engineering Evaluation and Cost Analysis (EE/CA) for the rail car. RL responded that the EE/CA has not been initiated. Regarding the CW-3 waste sites, EPA stated that a remedial action report or equivalent documentation will be required to satisfy closure. RL will contact EPA to discuss the process.

200-UR-1

RL stated that the West Lake Sampling and Analysis Plan is in concurrence to be submitted for regulatory agency review. The characterization of the Gable Mountain pipeline has been completed.

DOE expressed appreciation to Ecology and EPA for their support in finalizing the industrial facilities EE/CA, action memo and the RAWP. A waste disposal issue was identified earlier in the year, which was resolved through Ecology's and EPA's assistance. With the signed documents in place, demolition activities are starting this week, and it has allowed the contractor to stay on an aggressive schedule.

Tri Party Agreement

Thursday, April 22, 2010
Ecology Offices, Conference Room 3A/B
3100 Port of Benton Way
Richland, Washington

Agenda
Central Plateau Milestone Review Meeting
Chairman: Matt McCormick

9:00 a.m.	M-83-00	PFP Transition
9:10 a.m.	M-26-01	Land Disposal Restrictions Report
9:20 a.m.	M-91-00	Acquisition of Facilities to TSD TRU/TRUM and LLMW
9:30 a.m.	M-15-00	RI/FS Process Completion
	M-16-00	Complete Remedial Actions
	M-24-00	Groundwater Well Installation
10:30 a.m.	Adjourn Milestone Review	

Tri-Party Agreement Major Milestone Management Review
April 22, 2010

Name	Organization	Mail Stop	Phone
[illegible]	Ecology		372-7937
Kathy Knox	Knox Reporting		9465535
[illegible]	MSA		373-3285
[illegible]	Ecology		372-7[illegible]
AL Farabee	DOE		376-8087
Shelley Simon	ODOE		(541) 963-0853
Ellen Mattlin	DOE		376-2385
Scott Richey	CHPRC		373-0447
Rick Bond	Ecology		372-7885
Nina Menard	Ecology		372-7941
Michael Collins	DOE		376-6536
Jonathan Matthews	Nez Perce Tribe		(208) 791-4638
Craig Cameron	EPA		376-8665
Ron Morrison	MSA		376-2994
Dave Black	CHPRC		376-0740
Terry Noland	MSA		376-6574
Jean Vannic	YN		945-1100
Janice Williams	CHPRC		372-3553
Matt McCormick	DOE		373-9971
Deborah Singleton	Ecy		372-7923
DL Foss	PRC		438-2705
BL Foley	DOE		376-7087
Jane [illegible]	ECY		372-7905
John Price	Ecy		372-7921
Ron Skinnerland	ECY		372-7924
Dave Eine	EPA		376-3883

Tri-Party Agreement Major Milestone Management Review
April 22, 2010

Name	Organization	Mail Stop	Phone
Cathy Louie	DOE		376 6834
Doug Clyn	DOE-RL-0040		373-9396

Hanford Federal Facility Agreement and Consent Order
IAMIT Milestone Review Form
(For Milestones Without Issues or Significant Activity)

M-035-09G Summary

Date: 04/12/2010

1. Significant Activities Last Three Months

All actions identified by EPA and Ecology during meetings held to assess the information and data access needs as defined by M-035-09G: "*Conduct biennial assessments of information and data access needs with EPA and Ecology. DOE-RL will propose implementation schedules (TPA milestones) for enhancements as a result of the biennial assessments.*", have been completed to all Parties satisfaction.

2. Budget Status (within budget or explain variance)

N/A

3. Issues

N/A

4. Non-TPA Regulatory Issues with Potential Impact to TPA Milestone

N/A

5. Significant Activities Planned Next Three Months

N/A

Note: Approved form to be submitted to IAMIT members 7 days prior to scheduled Milestone Review.

RL Project Manager	Ecology Project Manager	EPA Project Manager

PFP Closure Project TPA Milestone M-083

April 2010
Tri-Party Agreement Milestone
Status Report

Ecology Project Manager – R. Bond
DOE-RL Project Director – E. Mattlin
PFP Closure Project – D. Del Vecchio
CHPRC Environmental – S. Richey

M-83 Status for Interim Milestones

(as of 03/31/10)

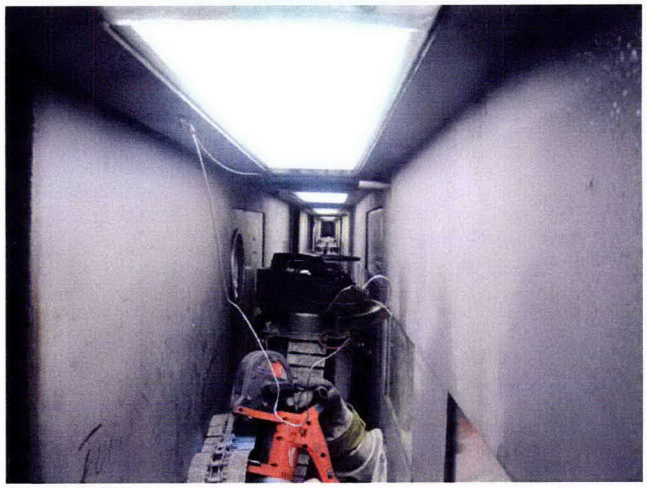
TPA No.	TPA Commitment Date	Milestone Title	Status
M-083-32	9/30/11	COMPLETE CLOSURE OF THE PFP 241-Z TSD UNIT	***Complete***
M-083-42	9/30/11	COMPLETE TRANSITION AND DISMANTLEMENT OF THE 241-Z WASTE TREATMENT FACILITY	***Complete***
M-083-43	9/30/13	COMPLETE TRANSITION OF THE 242-Z WASTE TREATMENT FACILITY AND 236-Z PRF	***On Schedule***
M-083-44	9/30/15	COMPLETE TRANSITION OF THE 234-5-Z (PFP), 243-Z LLW Treatment, 291-Z and Z-1 Stack	***On Schedule***

Accomplishments

- 17 qualified D&D crews working
- Removal of PRF process equipment from second floor west gallery glovebox has been completed
- Functional testing of the PRF crane has been completed
- Installation RADTU glovebox containment area in Room 235D

Accomplishments

- Entry into 242-Z has been completed as planned
  - Combustibles removed from 242-Z control room
  - High contamination levels in tank room encountered
- Improved waste handling capability added
- Initiated equipment removal 70 foot long HA -28 chainveyor



Planned Activities

- Continued PRF gallery glovebox clean out
- Continued glovebox clean out and removal
- Continued D&D field work on 2736-ZB
- Install HVAC cooling for PFP/PRF
- Continued Min-Safe maintenance activities
- Demolition of 2701-ZA, 2701-ZD and 2705-Z (OCF)

Schedule / Cost Performance
Fiscal Year to Date Status (through March)

RL-0011 - Nuclear Material Stabilization & Disposal (PFP)	Fiscal Year to Date				
	BCWS	BCWP	ACWP	SV$	CV$
(ARRA/ & Base) -Total	68.1	67.2	64.7	-0.9	2.5
					(Numbers are rounded to the nearest $0.1M)

Schedule Performance: (-$0.9M/-0.1%)

- Early achievement of asbestos removal activities (positive)
- Overall negative variance is negligible

Cost Performance: (+$2.5M/+1.4%)

- Efficiencies due to completion of the Special Nuclear Material (SNM) De-Inventory work

Issues

Regulatory Issues:

- None

Non-Regulatory Issues:

- None

Land Disposal Restrictions (LDR) Report
(Tri-Party Agreement Milestone M-26-01)
Quarterly Presentation
April 22, 2010

Tri-Party Agreement

Deborah Singleton, Ecology Lead
Michael Collins, RL Project Lead
Ronald Koll, ORP Project Lead

Tri-Party Agreement

Background

- Tri-Party Agreement Milestone M-26-01 requires annual submittal of the Hanford Site LDR report

- TPA Change Request M-26-06-01 approved December 14, 2006 established summary reports as the deliverable with the full LDR report submitted every 5 years.

Tri-Party Agreement

Status

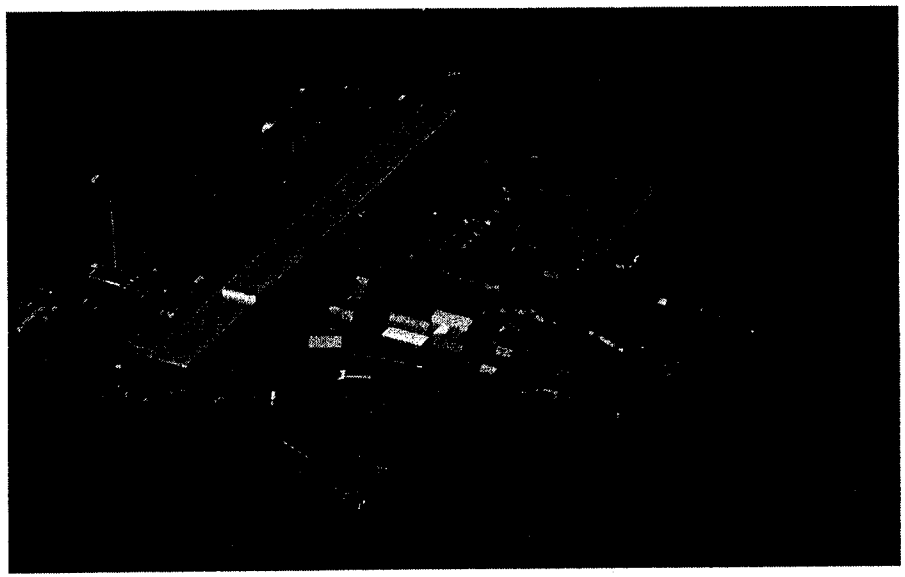
- The CY2009 LDR report preparation in progress
- Site-specific LDR variance for PNNL barium waste
  - Variance approved August 21, 2009
  - Start treatment in Spring 2010
- LDR Determination of Equivalent Technology for macroencapsulation of PNNL lead solids – Ecology review complete
- Site-specific LDR variance for stabilization of CHPRC beryllium powder - 21-day public comment period started April 1, 2010

Tri-Party Agreement

Actions Planned for the Next Three Months

- Submit CY2009 LDR report by April 30, 2010
- Continue the monthly PMMs
- Continue working on storage assessments of potential mixed waste

Tri-Party Agreement Quarterly Milestone Review M-91 Series



April 22, 2010

Significant Accomplishments of the Last Three Months

- M-91-45 negotiations
  - Started 09/08/09
  - Completion date for negotiations extended to 04/30/09
  - Tentative Agreement drafted and ready for signature
- Treated 136 m^3 of M-91-42 MLLW
  - Total volume treated – 8,029 m^3
  - Total volume shipped – 8,163 m^3 (76 m^3 in the quarter)

Significant Accomplishments of the Last Three Months

- Treated 6 m^3 of M-91-43 MLLW
  - Total volume treated – 667 m^3
  - Total volume shipped – 707 m^3 (36 m^3 in the quarter)

- 112 m^3 (about 567 drums) of M-91-42 TRU waste repackaged into a WIPP-compliant form
  - Certified waiting shipment to WIPP – 276 m^3
  - Shipments to WIPP restarted – 19 shipments (166 m^3)
  - Ready for shipment to Idaho – 187 m^3
  - In WIPP-compliant form – 686 m^3
  - Fourth repackaging line at T Plant started

Significant Accomplishments of the Last Three Months

- Retrieved 0 m^3 of M-91-40 RSW
  - Total volume retrieved – 10,491 m^3
  - Volume removed from trenches but not shipped to a TSD – 17 m^3
  - Retrieval stopped due to concerns in adjacent (non-retrieval) trench and safety concerns
  - Next Generation Retrieval – Procurement of equipment/services for complete except for one piece of equipment, specification for design/build contract for processing equipment approved
  - Alpha Caisson Retrieval - Conceptual design for retrieval and processing systems complete, started preliminary designs.

Fiscal Year 2010 (through April) Performance Measurement

Dollars in Thousands

Title	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance	Cost Variance
Central Waste Complex	4,474.8	4,255.0	3,953.2	(219.2)	301.7
Waste Receiving and Packaging Facility	4,227.3	4,107.8	4,411.9	(119.5)	(304.2)
T Plant	5,543.1	5,620.6	5,385.6	77.5	235.0
MLLW Treatment	5,780.4	6,110.7	4,428.7	330.3	1,682.0
TRU Retrieval	21,162.0	14,428.5	17,642.6	(6,683.5)	(3,164.1)
TRU Repackaging	5,518.8	5,602.6	5,118.4	83.8	484.2
TRU Disposition	5,049.8	3,913.3	3,130.5	(1,136.5)	782.8
Project Management	8,536.5	8,537.0	8,310.3	0.5	226.7

Variance Analysis

- FYTD Schedule Variance: The negative schedule variance for retrieval is due to work being stopped to address concerns in an adjacent trench and safety concerns. The negative schedule variance for TRU waste disposition is due to the initiation of CCP certification program taking longer than planned.

- FYTD Cost Variance: The positive cost variance for MLLW treatment is an artifact of funds committed but not costed until the treated waste is returned. The negative cost variance for retrieval is due to degradation of waste containers and the concerns mentioned above. The positive cost variance for TRU waste disposition is due less support being needed for TRU waste repackaging.

Actions Planned for Next Six Months

- Continue shipping and treating M-91-42 and M-91-43 MLLW
- Continue repackaging M-91-42 TRU waste into a certifiable form
- Continue shipping M-91-42 TRU waste to WIPP
- Initiate Central Characterization Project certification program
- Complete corrective actions and restart retrieval
- Remediate degraded Boxes 80 and 82 in Burial Ground 218-W-3A, Trench 17

Actions Planned for Next Six Months

- Initiate Next Generation retrieval in Burial Ground 218-E-12B
- Issue design/build contract for Next Generation processing system
- Continue preliminary design of retrieval and processing systems for alpha caisson waste
- Start long lead procurements for alpha caisson waste retrieval and processing systems

Milestone	Due Date	Tritium Treatment Technology Developments to Ecology & EPA	**Status**	Agency Lead
P-015-00	**12/31/16**	**Complete RI/FS (or RFI/CMS & RI/FS) Process for all non-TF OUs Except M-85**	**On Schedule**	EPA/Ecology Dual Lead
M-015-00D	**12/31/12**	**Submit PP for all 100 & 300 Area OUs to Complete RI/FS Process**	**On Schedule**	EPA/Ecology Dual Lead
P-015-17A	09/30/10	Submit a 200-UP-1 OU RI and FS Report and PP to EPA	On Schedule	EPA Lead
P-015-21A	12/31/12	Submit 200-BP-5 and 200-PO-1 OU FS Report and PP(s) to Ecology	On Schedule	Ecology Lead
P-015-38B	04/30/12	Submit Rev'd FS Report & Rev'd PP for CW-1, -CW-3, and OA-1 to EPA	On Schedule	EPA Lead
M-015-60	ROD+6 Mo	Submit RD/RA Work Plan, if 100-NR-1/2 ROD Amend. is Issued	On Schedule	Ecology Lead
M-015-62-T01	12/31/11	Submit FS/PP for 100-NR-1/2 OUs Including GW and Soil	On Schedule	Ecology Lead
M-015-64-T01	11/30/11	Submit RI/FS Report and PP for 100-FR-1/2/3 and 100-IU-2/6	On Schedule	EPA Lead
M-015-66-T01	07/31/11	Submit RI/FS Report and PP for 100-KR-1/2/4 OUs for GW and Soil	On Schedule	EPA Lead
M-015-68-T01	11/30/11	Submit RI/FS Report and PP for 100-BC-1/2/5 OUs for GW and Soil	On Schedule	EPA Lead
M-015-70-T01	07/30/11	Submit FS Report and PP for 100-HR-1/2/3 and 100-DR-1/2 OUs	On Schedule	Ecology Lead
M-015-72-T01	12/31/11	Submit RI/FS Report and PP for 300-FF-2/5 OUs for GW and Soil	On Schedule	EPA Lead
M-015-82A	12/31/10	Submit Treatability Test Plan as Amendment of 200-BP-5 WP	On Schedule	EPA Lead
M-015-82B	Approval of TTP + 6 mo	Initiate 200-BP-5 Aquifer Tests Within 6 months of TTP Approval	On Schedule	EPA Lead
P-015-90	06/30/11	Submit Revised RFI/CMS and RI/FS Work Plan for 200-IS-1 to Ecology	On Schedule	Ecology Lead
P-015-91A	12/31/11	Submit RI/FS Work Plan for the 200-WA-1 OU to EPA	On Schedule	EPA Lead
P-015-91B	06/30/13	Submit FS Report and PP for 200-WA-1 to EPA	On Schedule	EPA Lead
P-015-92A	12/31/12	Submit RFI/CMS and RI/FS Work Plan for the 200-EA-1 OU to Ecology	On Schedule	Ecology Lead
P-015-92B	06/30/14	Submit CMS & FS & Proposed CA Decision/PP for EA-1 & IS-1 to Ecology	On Schedule	Ecology Lead
P-015-93A	12/31/11	Submit Revised RFI/CMS and RI/FS Work Plan for 200-SW-2 to Ecology	On Schedule	Ecology Lead
P-015-93B	12/31/16	Submit RFI/CMS & RI/FS & Proposed CA Decision/PP for SW-2 to Ecology	On Schedule	Ecology Lead
P-015-110A	09/30/12	Submit RFI/CMS & RI/FS Work Plan for 200-DV-1 OU to Ecology	On Schedule	Ecology Lead

P-015-110B	09/30/15	Submit CMS & FS & PP/Proposed CA Decision for 200-DV-1 OU to Ecology	On Schedule	Ecology Lead
P-015-110C	12/31/10	Submit Uranium Treatment Tech. TTP for 200-DV-1 OU to Ecology	On Schedule	Ecology Lead
P-015-110D	06/30/12	Submit Tc-99 Pilot Scale Treat. Study Test Report for 200-WA-1 to EPA	On Schedule	EPA Lead
M-015-115	08/30/10	Submit TTP for hex. chromium bioremediation at 100-D/H to Ecology	On Schedule	Ecology Lead
M-015-116	08/30/10	Submit TTP for hex chromium biorem. of 100-K Vadose Zone to EPA	On Schedule	EPA Lead
P-016-00	**09/20/24**	**Complete Remedial Actions for all Non-Tank Farm & Non-Canyon OUs**	**On Schedule**	EPA/Ecology Dual Lead
M-016-00A	**12/31/12**	**Complete all Interim Response Actions for the 100 Areas, Except 100K**	**On Schedule**	EPA/Ecology Dual Lead
M-016-00B	**09/30/18**	**Complete all Interim 300 Area Remedial Actions, Except Retained Facilities**	**On Schedule**	EPA Lead
M-016-00C	**TBD**	**Complete all Interim Response Actions for the 100K Area**	**On Schedule**	EPA Lead
M-016-53	12/31/12	Complete the Interim Response Actions for the 100 K Area Phase I	On Schedule	EPA Lead
M-016-93B	12/31/12	Submit Implementation Workplan to Prepare TRU/TRUM Waste	On Schedule	EPA Lead
M-016-110-T01	12/31/12	Take Actions to Contain or Remediate Hexavalent Cr 100A GW Plumes	On Schedule	EPA/Ecology Dual Lead
M-016-110-T02	12/31/20	Take Actions Such That Hexavalent Cr Meets Drinking Water Stds.	On Schedule	EPA/Ecology Dual Lead
M-016-110-T03	12/31/16	Take Actions to Contain Sr-90 GW Plume at 100-NR-2 OU	On Schedule	Ecology Lead
M-016-110-T04	12/31/16	Implement Remedial Actions in all 100A RODS for GW OUs	On Schedule	EPA/Ecology Dual Lead
M-016-110-T05	12/31/15	Implement System to Meet Drinking Water Stds. for U at 300-FF-5 OU	On Schedule	EPA Lead
M-016-111B	12/31/10	Expand P&T System at 100-HR-3 OU to 500 gpm Capacity	On Schedule	Ecology Lead
M-016-111C	12/31/11	Expand P&T System at 100-HR-3 OU to 800 gpm Capacity	On Schedule	Ecology Lead
M-016-119-T01	12/31/20	Remedy in Place to Contain GW Plumes in 200 NPL Area	On Schedule	EPA/Ecology Dual Lead
M-016-120	12/31/11	GW Treatment System <50 gpm for Tc-99 Plume at S/SX Tank Farm	On Schedule	Ecology Lead
M-016-122	12/31/11	Begin Phase 1 Operation of 200W Pump and Treat System	On Schedule	EPA Lead
M-016-124	08/31/10	Submit 200-ZP-1 Remedial Design Report	On Schedule	EPA Lead
M-016-140	03/31/11	Submit Revised RD/RA Work Plans for 100K RODs With New M/S	On Schedule	EPA Lead

M-016-143	12/31/15	Complete the Interim Response Actions for the 100 K Area Phase 2	On Schedule	EPA Lead
P-016-200A	09/30/17	Complete U Plant Canyon (221-U) Demolition in accordance w/ RD/RAWP	On Schedule	EPA Lead
P-016-200B	09/30/21	Complete U Plant Canyon (221-U) Barrier Construction in accordance w/ the RD/RAWP	On Schedule	EPA Lead
M-024-00O	**TBD**	**Complete Well Installations with RCRA/CERCLA Requirements**	**In Program Planning**	Ecology Lead
M-024-58C	06/01/10	Initiate Discussions of Well Commitments	On Schedule	Ecology Lead
M-024-58D	06/01/11	Initiate Discussions of Well Commitments	On Schedule	Ecology Lead
M-024-58E	06/01/12	Initiate Discussions of Well Commitments	On Schedule	Ecology Lead
M-024-61	12/31/10	DOE Shall Complete Construction of all Wells Listed	On Schedule -	Ecology Lead
M-024-61-T01	08/01/10	Conclude Discussions of Well Commitments	On Schedule	Ecology Lead
M-024-62	12/31/11	DOE Shall Complete Construction of all Wells Listed	On Schedule	Ecology Lead
M-024-62-T01	08/01/11	Conclude Discussions of Well Commitments	On Schedule	Ecology Lead
M-024-63	12/31/12	DOE Shall Complete Construction of all Wells Listed	On Schedule	Ecology Lead
M-024-63-T01	08/01/12	Conclude Discussions of Well Commitments	On Schedule	Ecology Lead

SOIL AND GROUNDWATER REMEDIATION PROJECT MILESTONE REVIEW

M-015-00, M-016-00, M-024-00

Tri-Party Agreement

U.S. Department of Energy
U.S. Environmental Protection Agency
State of Washington, Department of Ecology
Second Quarter FY10
April 22, 2010

Milestone Status

TPA Number	Commitment Date	Milestone Title	Status
M-015-00C – Complete all 200 Area Non-Tank Farm Operable Unit pre-ROD Site Investigations			
M-015-00D	12/31/12	Submit PPs for all 100 & 300 Area OUs to complete RI/FS process	On Schedule
M-015-17A	09/30/10	Submit a 200-UP-1 OU Combined RI and FS Report and PP	On Schedule
M-015-21A	12/31/12	Submit 200-BP-5 OU FS and Proposed Plan to EPA	On Schedule
M-015-38B	11/30/10	Submit Revised FS Report & Revised Proposed Plan for 200-CW-1	Transition to conform with the tentative agreement.
M-015-40E	3/31/10	Parties Will Complete Negs. & DOE Will Submit Chg. Pkgs. w/New M/S	On Schedule
M-015-44B	02/28/10	Submit 200-MW-1 OU FS to EPA.	**COMPLETED**
M-015-51	09/30/10	Submit Revised FS Report & Proposed Plan to EPA for 200-BC-1 OU	Transition to conform with the tentative agreement.
M-015-54	01/31/10	Submit Report on Reactive Gas Testing for Sequestration of Uranium	**COMPLETED**
M-015-60	ROD+6 Mo	Submit RD/RA Work Plan, if 100-NR-1/2 ROD Amend. is Issued	On Schedule
M-015-62-T01	12/31/11	Submit FS/PP for 100-NR-1/2 OUs Including GW and Soil	On Schedule
M-015-64-T01	11/30/11	Submit RI/FS Report and PP for 100-FR-1/2/3 and 100-IU-2/6	On Schedule
M-015-66-T01	07/31/11	Submit RI/FS Report and PP for 100-KR-1/2/4 OUs for GW and Soil	On Schedule
M-015-68-T01	11/30/11	Submit RI/FS Report and PP for 100-BC-1/2/5 OUs for GW and Soil	On Schedule
M-015-70-T01	07/30/11	Submit FS Report and PP for 100-HR-1/2/3 and 100-DR-1/2 OUs	On Schedule

Milestone Status

TPA Number	Commitment Date	Milestone Title	Status
M-015-00C – Complete all 200 Area Non-Tank Farm Operable Unit pre-ROD Site Investigations			
M-015-71	10/31/09	Submit RI/FS Work Plan for 300-FF-2/5 OUs for GW and Soil	COMPLETED
M-015-72-T01	12/31/11	Submit RI/FS Report and PP for 300-FF-2/5 OUs for GW and Soil	On Schedule
M-015-73	12/31/11	Submit FS Report and PP for 200-PO-1 OU	On Schedule
M-015-82A	12/31/10	Submit Treatability Test Plan as Amendment of 200-BP-5 WP	On Schedule
M-015-82B	TTP+ 6 mo. Approval of TTP plus 6 months	Initiate 200-BP-5 Aquifer Tests Within 6 months of TTP Approval	On Schedule
M-015-83	06/30/10	Submit Proposed Plan for 200-UW-1	Transition to conform with the tentative agreement.
M-015-115	08/30/10	Submit In-Situ Bioremediation Treatability Test Plan for 100-D/H	On Schedule
M-016-00 – Complete Remedial Actions for all Non-Tank Farm Operable Units			
M-016-110-T01	12/31/12	Take Actions to Contain or Remediate Hexavalent Cr 100A GW Plumes	On Schedule
M-016-110-T02	12/31/20	Take Actions Such That Hexavalent Cr Meets Drinking Water Stds.	On Schedule
M-016-110-T03	12/31/16	Take Actions to Contain Sr-90 GW Plume at 100-NR-2 OU	On Schedule
M-016-110-T04	12/31/16	Implement Remedial Actions in all 100A RODS for GW OUs	On Schedule

Milestone Status

TPA Number	Commitment Date	Milestone Title	Status
M-016-00 – Complete Remedial Actions for all Non-Tank Farm Operable Units (cont.)			
M-016-110-T05	12/31/15	Implement System to Meet Drinking Water Stds. for U at 300-FF-5 OU	On Schedule
M-016-111B	12/31/10	Expand P&T System at 100-HR-3 OU to 500 gpm Capacity	On Schedule
M-016-111C	12/31/11	Expand P&T System at 100-HR-3 OU to 800 gpm Capacity	On Schedule
M-016-112A	12/31/09	Complete Demos for Biostimulation and Electrocoagulation	COMPLETED
M-016-119-T01	12/31/20	Remedy in Place to Contain GW Plumes in 200 NPL Area	On Schedule
M-016-120	12/31/11	GW Treatment System <50 gpm for Tc-99 Plume at S/SX Tank Farm	On Schedule
M-016-122	12/31/11	Begin Phase 1 Operation of 200W Pump and Treat System	On Schedule
M-016-123B	TBD	Initiate 200-ZP-1 Constr. 6 Mo. After RD/RA Work Plan Approval Work plan submitted 3/24/09, 09-AMCP-0093	On Schedule
M-016-124	08/31/10	Submit 200-ZP-1 Remedial Design Report	On Schedule

Milestone Status

TPA Number	Commitment Date	Milestone Title	Status
M-024-00 – Complete Well Installations with RCRA/CERCLA Requirements			
M-024-58C	06/01/10	Initiate Discussions of Well Commitments	On Schedule
M-024-58D	06/01/11	Initiate Discussions on Well Commitments	On Schedule
M-024-61	12/31/10	DOE Shall Complete Construction of 90 Wells	On Schedule
M-024-61-T01	08/01/10	Conclude Discussions of Well Commitments	On Schedule
M-024-62	12/31/11	DOE Shall Complete Construction of all Wells Listed	On Schedule
M-024-62-T01	08/01/11	Conclude Discussions of Well Commitments	On Schedule

Significant Accomplishments

200-PO-1

- Completed the Decisional Draft of the 200-PO-1 Remedial Investigation (RI) Report.

200-BP-5

- Completed L Well (adjacent C-1 Crib), K Well (adjacent B-6 Reverse well) and M Well (adjacent B-12 Crib) drilling and sampling. Completed Lab analyses for K and L well samples.
- Completed 12 of 14 wells scheduled for depth discrete groundwater sampling in the B Complex Area.
- Prepared final draft of the 200-BP-5 conceptual model report. DOE provided report to regulators, Tribal Nations, and State of Oregon for feedback. A stakeholder briefing/meeting has been scheduled for 4/20/2010. Continued work on the Remedial Investigation (RI) Report and the 200-BP-5 B Complex Treatability Test Plan.

200-BC-1

- RL has received the Rev. 0 Excavation Treatability Test Report for distribution to regulators.

200-UP-1

- Revision 3 to the 200-UP-1 OU Groundwater Remedial Design/Remedial Action Work Plan (DOE/RL-97-36, Rev. 3) was finalized and transmitted to Ecology on 3/16/2010 for approval.
- Procured design services for the S-SX extraction system.
- Preparation of the 200-UP-1 RI/FS report and Proposed Plan continued. Met with EPA and Ecology on 3/18/2010 to present the scope/approach for the 200-UP-1 Proposed Plan for the purpose of amending the 200-ZP-1 ROD. EPA concurred with the approach.
- Implemented cleaning activities for both U area extraction wells to remove well screen scale and enhance pumping rate.

Significant Accomplishments

200-MW-1

- Submitted Draft A FS to EPA on February 25, 2010.

200-ZP-1 / 200-PW-1 SVE

- Began preparing RD Report based on 90% design for 200-West Area GW Treatment Facility.
- Completed sampling in 9 final extraction wells.
- Began sampling of 2 of the next 11 injection / extraction wells.
- Issued Draft A Performance Monitoring Plan for EPA review.
- Issued Draft A O+M Plan for 200-West Area GW Treatment Facility for EPA review.
- Began tying well EW-1 (C7017) into interim P+T system.
- Continued operation of interim P+T system which is pumping at ~260 gpm.
- Completed researching liquid effluent discharge sources in the 200 West Area.
- Began preparing test plans for testing resins for uranium removal and GAC for Tc-99 removal.
- Started active SVE operations on March 1, 2010 and continued passive SVE operations.

200-PW-1/3/6

- Draft C FS is in preparation and will be submitted to EPA this summer. This revision will address EPA comments on risk screening, groundwater modeling, and inclusion of pipelines.
- A series of meetings were held with EPA and Ecology to brief the regulators on the screening and identification of COPCs for groundwater protection.

Significant Accomplishments

200-CW-5

- The RL review of Draft C FS is underway. Alternatives were structured to be more consistent with the 200-PW-1/3/6 FS.

200-MG-1/2

- RL is reviewing the RAWP for 37 200-MG-1 Outer Area waste sites.
- Resolved regulator review comments on the 200-MG-1 Action Memorandum (Draft A) for 37 Outer Area waste sites.

200-UW-1

- Submitted the 216-U-8 and 216-U-12 DQO and SAP for Ecology review. Comments anticipated early April 2010.

200-LW-1/2

- The 216-B-6 borehole was complete to a depth of 304 feet bgs.

200-PW-2/4

- The 216-B-12 borehole was complete to a depth of 305 feet bgs.

200-SW-1

- RL and Ecology are working together to expedite the review and update of the NRDWL and SWL closure plans.
- Ecology and RL are working together to resolve the regulatory approach, public involvement, soil cover design, and groundwater monitoring.

Significant Accomplishments

200-CW-1/Outer Area

- Completed field investigation of the large 200-CW-1 ponds. Completed collection of the direct push samples on Gable Pond Pipeline.

U-Zone Remediation

- **221-U Disposition**
  - Repairs to the main crane electrical and mechanical systems began in March.
  - Equipment size reduction and cell loading is well underway.
  - TPA Change package M-16-10-02 was approved to change the project schedules provided in the U Plan RD/RAWP, Chapter 2.
  - Removal actions are underway per RAWP.
- **U-Ancillary Facilities**
  - Removal actions are underway per RAWP.

200 North Remediation

- **212-N, -P, and -R Facilities/Structures**
  - Non-Time Critical Removal Action demolition completed for 212-N, -P, and –R facilities.
- **200-CW-3 Waste Sites**
  - Completed excavation of waste site 216-N-1 contaminated soils. Verification sampling is complete. Closure documentation is in development.
  - Three septic tank waste sites, 2607-N, -P, and –R sampled. Closure documentation was completed, approved, and entered into the administrative record.
  - Initiated excavation of contaminated soils from 216-N-4 waste site.

Significant Accomplishments

Lower ALE (Base):

- D&D of all facilities and slab removal work is complete, with the exception of 6652-L and the septic tank for building 646.
- Waste loading and shipments ongoing.
- Debris Pile Sites:
  - Class A – Work in progress. 57 of 58 completed.
  - Class B – Work in progress. 49 of 51 completed.
  - Class C – Work in progress. 5 Complete.
  - New Sites – Snively Canyon and others being worked.

Upper ALE (Top of Rattlesnake):

- Cold & Dark:
  - 662C, C-shed, D, T, and U Facilities complete.
  - Planning for communication structures started.
- Demo Prep:
  - Started 6652C and C-shed demo prep activities.

BC Control Area Remediation

- Excavation of contaminated soil in BCCA North Zone A (~140 acres) continued using six super dump trucks. Approximately 87,500 tons over ~ 23 acres, cumulative, has been disposed of at ERDF.

- Removal of elevated hot spots in BCCA North Zone B (~3,660 acres) was continued. Approximately 685 acres have been down-posted (i.e., removal of Contamination Area or Soil Contamination Area signs).

Significant Accomplishments

300 Area FF-5

- **RI/FS Work Plan Rev. 0**
  - Work Plan and SAP was finalized for signature scheduled.
- **Uranium Testing**
  - Infiltration gallery tracer testing underway during low river stage.

100-BC-5

- **100-BC RI/FS Work Plan Addendum and SAP, Rev. 0**
  - Resolved EPA comments and incorporated changes into Rev. 0.
  - Rev. 0 approved by RL and EPA on 3/23/2010.
  - Began implementation of field remedial investigations.
  - Installed three clusters of three aquifer tubes along the 100-BC shoreline.
- **Four-Well Drilling Campaign**
  - Completed second of four wells, C7505.
  - Drilled, sampled, and completed third and fourth wells, C7507 and C7665.
  - All four-well field work finished to support RI/FS Work Plan efforts.
- **100-B-27 Excavation Bottom Sampling**
  - Conducted all field sampling activities.
  - Initiated field summary report.

Significant Accomplishments

100-KR-4

- Issued approved 100 Area RI/FS Work Plan KR-4 OU Addendum (DOE/RL-2008-46 ADD2).
- Prepared and issued SOW for drilling of KR-4 RI/FS wells.
- Installed three aquifer tube locations for KR-4 OU
- Completed second of three rounds of KR-4 operable unit risk assessment sampling.
- Phase 2 KX/KR4 systems realignment construction activities completed. Acceptance testing of KR-4 components of the Phase 2 realignment completed and the KR-4 pump-and-treat system operating at full capacity (300 gpm).
- Initiated acceptance testing of KX components of the Phase 2 realignment. Three new extraction wells using wireless communications for controls are now connected to the KX pump-and-treat system.
- Initiated design for Phase 3 realignment of the 3 KR4 pump-and-treat systems. The Phase 3 realignment will connect additional wells to the systems to support achievement of the 2012 goal, reroute piping to several wells to improve system operability, and provide additional extraction well connection points to the systems.
- Resin testing is underway using the resin test skid at the KX process building to test different resins with KR4 operable unit groundwater.

Significant Accomplishments

100-NR-2

- **100-N RI/FS Work Plan Addendum and SAP, Draft A**
  - Received Ecology comments on Draft A of Work Plan and SAP.
  - Began response and incorporation of Ecology comments into Draft B.
- **CERCLA Proposed Plan to Amend the NR-1/2 OU IROD**
  - Received Ecology and EPA comments on Draft B of Proposed Plan.
  - Began response and incorporation of Ecology and EPA comments into Rev. 0.
- **171-Well Drilling Campaign**
  - Wells installed for Sr-90 rivershore plume monitoring and for potential use in future Apatite PRB expansions.
  - Field operations continuing with 144 wells drilled, sampled, and completed.
  - Four more wells continuously sampled (cored) to support evaluation of the Jet Injection Treatability Test.
  - Initiated groundwater sampling of the upriver completed wells.
- **Jet Injection Pilot-Scale Treatability Test**
  - Completed all associated aquifer tube sampling.
  - Completed all associated core sampling under the 171-Well Drilling Campaign and initiated core analyses.
  - Initiated test report to document test results.
- **PNNL Studies**
  - Completed all FY10 phytoremediation field work and produced final report.
  - Continued TPH study with additional sampling and further evaluation of remediation technologies.
  - Continued analysis of core samples for evaluation of existing Apatite PRB and Jet Injection Test.

100-FR-3

- **100-F and IU-2/6 RI/FS Work Plan Addendum and SAP, Draft A**
  - Resolved EPA comments and incorporated changes into Rev. 0 (awaiting final RL and EPA approval).
  - Began planning for field remedial investigations.

Significant Accomplishments

100-HR-3

- Received approval on Addendum 1 (D/H) to the 100-Area RI/FS Integrated Work Plan, Revision 0.
- Received approval of the SAP for the D/H Area Addendum of the 100-Area RI/FS Integrated Work Plan, 100-D/H Area, Revision 0.
- Started the development of a new in-situ bioremediation treatability test plan for the 100-D Area.
- Continued construction of the DX P&T System (process and transfer building erection is complete). Work continues on the installation of process equipment.
- Continued design on HX, the additional 700 gpm P&T capacity at H Area.
- Completed realignment of DR-5 to extract groundwater from the hot-spot in the southern plume.
- Completed design modifications to support long-term operation of the RUM test wells as part of the HR-3 pump and treat system.
- Continued the rebound study in H Area.

RL-30 Groundwater/Vadose Zone
CM/FYTD Cost/Schedule Status - Base
($ in thousands)

RL-30	Fiscal Year to Date							Contract to Date					
Soil & water Rem-Grndwtr/Vadose CCL	BCWS	BCWP	ACWP	SV	CV	Fiscal Yr BAC	FYSF	BCWS	BCWP	ACWP	SV	CV	Contract BAC
BASE - Work Scope													
030.01 - Integration and Assessments	6,253.0	6,341.5	6,030.9	88.5	310.6	15,482.0	14,983.5	19,797.4	19,694.8	18,321.1	(102.6)	1,373.7	99,432.6
030.03 - Drilling	1,584.3	1,816.6	2,071.0	232.3	(254.4)	3,348.7	3,915.3	8,953.3	8,940.9	9,057.3	(12.4)	(116.4)	74,648.3
030.04 - Project Management	4,590.1	4,590.1	4,469.2	0.0	120.9	9,806.3	10,296.2	15,351.6	15,351.6	14,451.3	0.0	900.3	59,499.1
030.05 - Integrated Field Work	3,909.7	3,720.6	3,754.4	(189.1)	(33.8)	8,259.4	8,531.7	12,240.5	11,740.7	11,272.3	(499.8)	468.4	51,877.9
030.06 - GW Monitoring and Perf Asmts	7,683.5	7,124.5	7,998.7	(559.0)	(874.2)	16,246.6	16,853.9	21,441.6	21,328.6	23,117.5	(113.0)	(1,788.9)	146,273.7
030.10 - 100-BC-5 Operable Unit	625.4	929.0	1,041.7	303.6	(112.7)	2,047.5	2,514.4	1,055.5	1,359.1	1,396.8	303.6	(37.7)	5,020.9
030.11 - 100-KR-4 Operable Unit	4,440.9	4,283.7	3,010.0	(157.2)	1,273.7	9,636.0	9,461.9	15,971.8	15,759.0	13,780.9	(212.8)	1,978.1	76,938.7
030.12 - 100-NR-2 Operable Unit	2,593.3	2,760.2	1,299.9	166.9	1,460.3	6,752.5	6,694.9	4,781.1	4,820.2	3,114.3	39.1	1,705.9	34,483.6
030.13 - 100-HR-3 Operable Unit	5,526.2	4,859.0	4,302.4	(667.2)	556.6	18,771.5	16,624.7	12,433.4	11,535.2	10,832.8	(898.2)	702.4	91,960.8
030.14 - 100-FR-3 Operable Unit	281.2	277.7	160.1	(3.5)	117.6	1,131.0	1,685.4	655.9	652.3	394.9	(3.6)	257.4	3,596.4
030.20 - 200-BP-5 Operable Unit	967.8	1,202.0	900.1	234.2	301.9	1,850.5	1,727.4	1,573.7	1,797.2	1,491.5	223.5	305.7	8,479.5
030.21 - 200-PO-1 Operable Unit	269.3	283.0	302.9	13.7	(19.9)	405.8	430.8	1,397.5	1,411.2	1,397.4	13.7	13.8	5,806.3
030.22 - 200-UP-1 Operable Unit	315.9	295.1	254.7	(20.8)	40.4	741.1	1,087.8	1,085.3	1,086.5	867.6	1.2	218.9	12,135.5
030.23 - 200-ZP-1 Operable Unit	3,619.9	4,645.4	4,126.0	1,025.5	519.4	8,471.9	8,721.5	17,128.6	17,216.9	15,563.6	88.3	1,653.3	217,648.4
030.24 - 200-PW-1 Operable Unit	644.6	671.3	365.5	26.7	305.8	1,487.4	1,133.4	2,106.6	2,052.9	1,566.4	(53.7)	486.5	12,501.7
030.30 - 300-FF-5 Operable Unit	1,085.3	766.7	955.2	(318.6)	(188.5)	4,374.0	4,535.7	2,583.8	2,272.3	2,910.0	(311.5)	(637.7)	28,824.1
030.31 - PBS RL-30 Reg Dec/Closure	5,355.0	5,195.3	4,385.8	(159.7)	809.5	13,900.7	12,962.3	10,440.2	10,075.6	8,737.5	(364.6)	1,338.1	47,236.9
030.32 - Deep Vadose Zone Treatability	1,417.5	1,296.5	1,338.1	(121.0)	(41.6)	3,351.5	3,422.3	4,239.7	4,053.8	3,537.3	(185.9)	516.5	13,621.9
030.90 - Usage Based Services Dist	1,537.3	1,537.3	2,108.7	(0.0)	(571.4)	3,317.9	4,349.3	4,461.3	4,461.3	5,137.5	(0.0)	(676.3)	32,014.1
030.90.02 - Assmts for PRC Services	0.0	0.0	(0.0)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
030.90.03 - Assmts for - Oth Provd Serv	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
030.99 - PBS RL-30 UBS, G-n-A, DD	8,221.5	8,221.5	8,013.7	(0.0)	207.8	17,366.7	16,624.5	24,822.5	24,822.5	23,694.2	(0.0)	1,128.2	180,877.2
TOTAL Base - Work Scope	**60,921.8**	**60,817.0**	**56,888.8**	**(104.8)**	**3,928.2**	**146,748.9**	**146,557.1**	**182,521.5**	**180,432.5**	**170,642.3**	**(2,089.0)**	**9,790.3**	**1,202,877.8**

RL-30 Groundwater/Vadose Zone
CM/FYTD/CTD Cost/Schedule Status - ARRA
($ in thousands)

	Fiscal Year to Date							Contract to Date					
	BCWS	BCWP	ACWP	SV	CV	Fiscal Yr BAC	FYSF	BCWS	BCWP	ACWP	SV	CV	Contract BAC
ARRA - Work Scope													
030.03 - Drilling	9,025.7	8,648.6	6,809.4	(377.1)	1,839.2	21,390.7	19,139.7	11,300.4	11,063.4	8,852.0	(237.0)	2,211.4	31,001.5
030.13 - 100-HR-3 Operable Unit	8,715.7	8,489.5	8,152.2	(226.2)	337.3	21,054.7	15,772.5	8,716.3	11,941.1	10,519.1	3,224.8	1,422.0	21,544.5
030.23 - 200-ZP-1 Operable Unit	9,797.8	7,252.0	8,434.7	(2,545.8)	(1,182.7)	54,939.0	38,137.8	10,220.7	8,287.2	9,241.7	(1,933.5)	(954.5)	101,923.7
030.31 - PBS RL-30 Reg Dec/Closure	1,527.3	1,405.9	452.7	(121.4)	953.2	1,527.3	452.7	2,745.5	2,745.5	1,030.1	0.0	1,715.4	2,745.5
030.98 - Ramp-up and Transition	10,169.5	10,130.5	8,081.1	(39.0)	2,049.5	25,357.7	24,174.5	13,303.4	12,772.1	10,900.5	(531.3)	1,871.6	31,238.2
030.99 - PBS RL-30 UBS, G-n-A, DD	3,712.3	3,712.3	2,641.1	0.0	1,071.3	7,923.4	6,257.0	5,197.5	5,197.5	3,723.0	0.0	1,474.5	13,402.5
TOTAL ARRA - Work Scope	**42,948.3**	**39,638.8**	**34,571.1**	**(3,309.6)**	**5,067.6**	**132,192.8**	**103,934.2**	**51,483.7**	**52,006.8**	**44,266.6**	**523.0**	**7,740.3**	**201,855.8**

S&GRP Performance Review - Summary Variance Analyses, Base

30.06 GW Monitoring & Performance Assessments

- CTD CV (-$1,789K) – WSCF laboratory costs exceeding plan

30.11 100-KR-4 Operable Unit

- CTD CV (+$1,978K) – Efficiencies in operations and maintenance activities within KR-4

30.12 100-NR-2 Operable Unit

- CTD CV (+$1,706K) – Efficiencies in Chemical treatment, maintenance, jet grouting pilot test work, and RI/FS work plan/Interim Proposed Plan reporting activities

30.23 200-ZP-1 Operable Unit

- CTD CV (+$1,653K) – Savings in annual system calibration, design of EW-1 well hook-up, Ops & Maintenance, & Misc. Pump & Treat design/construct activities

30.31 Regulatory Decision/Closure

- CTD CV (+$1,338K) – Efficiencies in areas of multi-incremental sampling, M-Well borehole drilling, landfill characterization, and document preparation

30.03, Drilling

- CTD CV (+$2,211K) – Efficiencies/savings in drilling of 100-NR-2, 100-HR-3, & 200-BP-5 wells

30.13, 100-HR-3

- CTD CS(-$3,225K) – Acceleration of DX construction activities
- CTD CV (+$1,422K) – Efficiencies experienced during installation of HDPE piping and road crossings

S&GRP Performance Review - Summary Variance Analyses, ARRA

30.23, 200-ZP-1

- CTD CV (-$1,934K) – Delays in vendor fabrication of long lead process equipment, HDPE/fiber optical/electrical cable installation, and contractor mobilization for construction of the transfer buildings
- CTD SV (-$955K) – Design & road crossings costing more than planned

30.31 Regulatory Decision/Closure

- CTD CV (+$1,715K) – Efficiencies in areas of multi-incremental sampling, M-Well borehole drilling, landfill characterization, and document preparation

30.98 Ramp-up & Transition

- CTD CV (+$1,872K) – Procurement and installation of mobile offices and project staffing charges that are still remaining to be corrected, and efficiencies in shop construction contractor and project management support cost

30.99 RL30 UBS, G&A, DD

- CTD CV (+$1,475K) – FY09 and FY10 G&A running less than planned

RL-40 Deactivation & Decommissioning Project
FYTD Cost/Schedule Status
($ in millions)

Fiscal year-to-Date	FYTD BCWS	FYTD BCWP	FYTD ACWP	FYTD Schedule Variance $	FYTD Cost Variance $	BAC
RL-0040 BOS D&D Base Funding	10.3	8.8	7.5	-1.5	1.3	22.6
RL-0040 BOS D&D ARRA Funding	55.3	52.5	46.6	-2.8	5.9	126.6
RL-0040 BOS D&D TOTAL	65.6	61.3	54.1	-4.3	7.2	149.3

Numbers are rounded to the nearest $0.1M

RL-40 Deactivation and Decommissioning Cost and Schedule Performance Variances and Explanations

Subproject	FYTD Variance	Causal Factor
ARRA Funded Scope		
Significant Schedule Variance		
040.01.29.01.02	.8	Several Capital Equipment procurements were received early.
040.02.18.02 - U Canyon	-0.7	Delays in hiring of personnel for the U Canyon Project has caused the mobilization and ramp-up activities to fall behind.
040.02.24.01 – ALE facilities Rattlesnake	.4	Asbestos Abatement activities have been completed ahead of schedule.
040.02.29.03 – O-Zone	-1.6	Additional time required for development and approval of remediation documentation and much higher volume of soil to be removed from BC Control Area.
040.02.29.07 – O-Zone Barriers	-0.1	Start of major barrier design is on hold pending issuance of the closure plans for NRDWL and 600 Area Central Landfill.

RL-40 Deactivation and Decommissioning Cost and Schedule Performance Variances and Explanations

Subproject	FYTD Variance	Causal Factor
ARRA Funded Scope		
Significant Cost Variance		
040.01.21.02 – CP Remediation Project Management	0.1	Less resources required for Project Management.
40.01.26.01 - Misc Facilities Hazard Reduction	.7	Delays in hiring for WIF and Cold & Dark, along with efficiencies gained by integration with west area seven industrial buildings
040.02.24.01 – ALE Facilities Rattlesnake	1.0	Efficiencies in Asbestos Abatement activities for the demo of ALE Project.
040.02.18.01 – Remediation Def – U Plant Zone	-0.1	Additional resources have been required to continue work on the Agreement In Principle.
040.02.18.02 - Canyon - U Plant Zone	.8	Slow ramp up of staffing in the U Canyon Project has caused the delays in mobilization and ramp-up activities.
040.02.18.04 - U Ancillary Demolition	1.0	U Ancillary material and equipment costs have far exceeded the estimated budget. Due to higher than planned asbestos in the ancillary buildings additional respiratory/masks have been required. Additional insulators were needed to recover schedule as well as overtime. Also, a $5K cost correction was completed in September to move additional costs from Base to ARRA.
040.02.29.03 - O Zone Waste Sites	0.2	Previous under run has been offset by costs of removing greater volume of soil from BC Control Area
040.01.21.01	.6	Project Management is requiring less resources than planned.
040.90.02.06 – OHC Support to CP Waste Sites	0.1	Less resources required; ramping up contracts for support functions.

RL-40 Deactivation and Decommissioning Cost and Schedule Performance Variances and Explanations

Subproject	FYTD Variance	Causal Factor
Base Funded Scope		
Significant Schedule Variance		
040.02.18.02 - Canyon - U Plant Zone	-1.5	Disposition of Cell 30 has recently been determined. Design work is in progress.
Significant Cost Variance		
40.01.21.01 – Project Management	0.4	Less resources required for Project Management.
040.01.21.02 – CP Remediation Project Management	0.1	Less resources required for Project Management.
040.02.29.01 – Remediation Def - Outer Zone	0.1	Fewer resources have been required for preparation of the initial documents.

Planned Activities
Next 6 Months

U-Zone Remediation

- **U-Ancillary Facilities**
  - Demolition work underway with completion expected in Spring 2010.
- **U-Canyon**
  - Clear equipment off of upper deck.
  - Begin grouting of cells.

200 North Remediation

- **212-N, -P, and -R Facilities/Structures**
  - Completion of closure documentation for 212-N, -P, and -R.
- **200-CW-3 Waste Sites**
  - Completion of closure documentation for last three sites in 200-CW-3 (RTD sites 216-N-1, -4, and -6).

ALE Reserve D&D

- Lower ALE debris pile sites – Class D: Forecast June 10 start date.
- Start D&D on Upper ALE.

BC Control Area

- Continue bulk excavation of Zone A.
- Initiate remediation of hot spots in Zone B.
- The final (cleared) report of the September 2009 helicopter (aerial) survey done for the BCCA and West Lake Area is now available. A briefing was conducted April 21, 2010, between the Parties to determine the nature and extent of potential remediation that, along with what CERCLA and other regulatory documents, will be required for Zone C.

Planned Activities
Next 6 Months

100-NR-2

- Submit Draft B of the 100-N Area RI/FS Work Plan Addendum and SAP for Ecology review, and subsequently produce final Rev. 0 for approval and issuance.
- Revise the NR-1/2 Proposed Plan to Amend the IROD and submit Rev. 0 for regulatory approval and subsequent public review.
- Produce draft IROD Amendment following approval and public review of NR-1/2 Proposed Plan.
- Complete the evaluation of the Pilot-Scale Jet Injection Treatability Test and issue report.
- Complete TPH study and issue final PNNL reports.
- Continue Apatite Barrier performance monitoring/evaluation and issue final PNNL report.
- Complete 171 well-drilling campaign and subsequent groundwater sampling.

100-HR-3

- Issue a revision of the HR-3 RD/RA Work Plan to address upgrades at D Area, H Area, and the new DX and HX systems.
- Issue a new Interim Action Monitoring Plan to address upgrades at D Area, H Area, and the new DX and HX systems.
- Complete Remedial Process Optimization Phase II Technical Memoranda for D/H Areas.
- Continue drilling of RPO wells: 70 new wells in D/H Areas.
- Initiate drilling of RI/FS wells: 15 new wells, 12 new boreholes, 5 test pits in D/H Areas.
- Issue a new Treatability Test Plan for In-Situ Bioremediation at the Southern Plume in D Area.
- Complete design of the new HX P&T facility.
- Complete the realignment of the HR-3 Pump and Treat system to support long term pumping of two RUM wells in H Area.

Planned Activities
Next 6 Months

100-FR-3

- Issue approved Rev. 0 of the 100-F/IU-2/IU-6 Area RI/FS Work Plan Addendum and SAP.
- Complete planning and preparations for RI/FS Work Plan field investigation activities.
- Initiate field investigation activities to support the RI/FS as directed by the Work Plan.
- Initiate the production of the 100-F/IU-2/IU-6 Area RI/FS Report.

100-BC-5

- Continue implementation of the approved 100-BC Area RI/FS Work Plan Addendum and SAP.
- Initiate the drilling, sampling, and completion of 6 additional RI/FS wells.
- Complete additional field activities to support the RI/FS as directed by the Work Plan.
- Initiate the production of the 100-BC Area RI/FS report.
- Complete B-27 excavation bottom sampling summary report.

Planned Activities
Next 6 Months

100-KR-4

- Complete acceptance and operational testing associated with KX/KR4 Phase 2 realignment and turnover for unrestricted operations.
- Complete Phase 3 realignment design; prepare appropriate TPA change notices to KR4 P&T system RDR/RAWP documents to reflect Phase 3 modifications; initiate drilling and construction associated with Phase 3 realignment of the KR-4 operable unit pump-and-treat systems.
- Prepare and perform aquifer test at the 199-K-178 extraction well to measure aquifer properties in and around the well 199-K-178 to provide data to support modeling the capture of hexavalent chromium in this portion of the contaminant plume.
- Conduct the 3rd round of K Area risk assessment sampling, and initiate RI well drilling.
- Make significant progress toward installation of the KR4 P&T system programmable logic controller upgrade.
- Complete resin tests at the KX process building and issue resin test report.
- Incorporate RL comments into the Supplemental Interim Action Monitoring Plan specific to the 100-KR-4 operable unit interim action, and submit Draft A for EPA review and approval.
- Prepare Treatability Test Plan for Bio-Infiltration at the 100KW Head House area.
- Revise KR4 remedial process optimization technical memorandum to focus on proposed use of bioremediation technologies to meet the 2020 goal.

200-BP-5

- Complete the 200-BP-5 Conceptual Transport Model Report for the WMA B/BX/BY and surrounding area.
- Complete M well sample analyses.
- Complete depth discrete groundwater sampling in the B Complex Area.
- Complete Decision Draft B Complex Treatability Test Plan.
- Continue preparation of the Remedial Investigation (RI) Report.

Planned Activities
Next 6 Months

200-PO-1
- Complete the Draft A RI Report.

200-UP-1
- Continue design activities for an interim action extraction system for the Tc-99 plumes at WMA S-SX.
- Complete the Decisional Draft combined RI/FS Report and Proposed Plan.
- Complete U Plant extraction well cleaning activities and restart extraction system.

200-ZP-1 / 200-PW-1 SVE
- Continue operation of the interim pump-and-treat system.
- Continue collecting and analyzing depth-discrete groundwater samples during the drilling of the next set of 11 groundwater extraction/injection wells.
- Issue Draft A RD Report for the 200-West Area GW Treatment Facility.
- Begin building construction for the 200-West Area Groundwater Treatment Facility.
- Tie new extraction well EW-1 (C7017) into the interim pump-and-treat system.
- Replace heater/chiller unit for the interim pump-and-treat system.
- Issue Rev. 0 Performance Monitoring Plan for the 200-West Area GW Treatment Facility.
- Issue final report summarizing liquid effluent discharge sources in the 200 West Area.
- Continue work on the simulator-based training program.
- Complete new GW modeling runs that include selected interim injection/extraction wells.
- Issue 2009 Annual Summary Report for interim P+T operations.
- Continue active SVE operations (at Z-9 and Z-1A) as well as passive SVE operations..

Planned Activities
Next 6 Months

Burial Grounds Sampling and Analysis
- Initiate Step III sampling in 218-W-4C.

200-UW-1
- Transition the 200-UW-1 OU to conform with the tentative agreement.
- Initiate fieldwork planning to support an October 2010 start of borehole drilling.
- Respond to comments on the U-8 and U-12 SAP and complete to support drilling.

200-BC-1
- Transition the 200-BC-1 OU to conform with the tentative agreement.

200-MG-1/2
- Complete 200-MG-1 Action Memo, RAWP, and SAP for 37 Outer-Area Waste.

200-IS-1
- Submit revised RI/FS Work Plan to regulators for review.
- Hold a workshop with the Parties to divvy up the pipelines among 200-IS-1 and the new OUs.

Planned Activities
Next 6 Months

200-LW-1/2

- Develop the 216-B-6 borehole summary report.
- Develop Data Quality Objective report for the 216-B-6 analytical results.

200-PW-2/4

- Develop the 216-C-1 and 216-B-12 borehole summary reports.
- Develop Data Quality Objective report for the 216-B-12 and 216-C-1 analytical results.

200-SW-1

- Ecology and RL/CH to work toward achieving NRDWL and SWL closure plans acceptable to both parties.

200-MW-1

- Respond to EPA comments on the Draft A RI/FS report.
- Transition the 200-MW-1 OU to conform with the tentative agreement.

200-PW-1,-PW-3, -PW-6

- Submit Draft C FS to EPA for review and comment.
- Submit Rev. 0 FS, incorporating regulator comments received on the Draft C FS.
- Submit the Draft A PP to the Agencies for the Z Area Liquid Discharge Sites Area, which combines 200-CW-5 and 200-PW-1/3/6.

Planned Activities
Next 6 Months

200-CW-5
- Submit Draft C FS to EPA for review and comment.
- Submit Rev. 0 FS, incorporating regulator comments received on the Draft C FS.

200-UR-1
- Submit the Draft A West Lake SAP to Ecology for review/comment.
- Initiate activities to characterize the Gable Mountain Pond pipeline (200-E-127).

200-CW-1/Outer Area
- Resolve Regulator comments and update the West Lake SAP for approval.
- Implement activities in support of the Tentative Agreement.

200-Deep Vadose Treatability Test Plan
- Submit the SAP/Field Test Plan for the Desiccation Pilot Test to the regulators for review and comment.
- Submit the SAP/Field Test Plan for the Uranium Sequestration activity to RL and the regulators for review and comment (on schedule for 10/27/10).

Planned Activities
Next 6 Months

300-FF-5

- Begin RI drilling of 11 monitoring wells.
- Write polyphosphate treatability test plan and prepare for infiltration test.

Well Decommissioning

- Decommission 100 wells (48 currently under contract and planned to supplement contract with 20 more wells within the next month).

Issues

- None Known