

Appendix A-1

Contract Performance Reports

ARRA

Format 1 - Work Breakdown Structure

Format 3 - Baseline

Format 5 - Explanation and Problem Analysis



November 2011
CHPRC-2011-11, Rev. 0
Contract DE-AC06-08RL14788
Deliverable C.3.1.3.1 - 1

FORMAT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE

CONTRACT PERFORMANCE REPORT															CLASSIFICATION (When Filled In)			FORM APPROVED						
FORMAT 1 - WORK BREAKDOWN STRUCTURE															OMB No. 0704-0188									
1. CONTRACTOR															2. CONTRACT			3. PROGRAM			4. REPORT PERIOD			
a. NAME CH2M HILL Plateau Remediation Company					a. NAME Plateau Remediation Contract					a. NAME Plateau Remediation Contract					a. FROM (YYYYMMDD)									
b. LOCATION (Address and ZIP Code) Richland, WA					b. NUMBER RL14788					b. PHASE					2011 / 10 / 24									
					c. TYPE CPAF					d. SHARE RATIO					e. EVMS ACCEPTANCE NO YES X 9/18/2009			b. TO (YYYYMMDD) 2011 / 11 / 20						
5. CONTRACT DATA																								
a. QUANTITY		b. NEGOTIATED COST	c. ESTIMATED COST OF AUTHORIZED UNPRICED WORK			d. TARGET PROFIT/ FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING			i. DATE OF OTB/OTS (YYYYMMDD)											
		1,305,191	0			70,807	1,375,998	1,375,998	1,375,998	1,377,984														
6. ESTIMATED COST AT COMPLETION																								
MANAGEMENT ESTIMATE AT COMPLETION (1)					CONTRACT BUDGET BASE (2)					VARIANCE (3)					7. AUTHORIZED CONTRACTOR REPRESENTATIVE									
															a. NAME (Last, First, Middle Initial) Bang, M.V.									
															b. TITLE Prime Contract Manager									
a. BEST CASE					1,309,903										c. SIGNATURE									
b. WORST CASE					1,331,537										d. DATE SIGNED (YYYYMMDD)									
c. MOST LIKELY					1,309,903					1,305,191					(4,712)					2011/11/20				
8. PERFORMANCE DATA																								
WBS[1]																								
ITEM (1)	CURRENT PERIOD						CUMULATIVE TO DATE						REPROGRAMMING ADJUSTMENTS			AT COMPLETION								
	BUDGETED COST		ACTUAL COST	VARIANCE			BUDGETED COST		ACTUAL COST	VARIANCE			COST VARIANCE (12a)	SCHEDULE VARIANCE (12b)	BUDGET (13)	BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)						
	WORK SCHEDULED (2)	WORK PERFORMED (3)	WORK PERFORMED (4)	SCHEDULE (5)	COST (6)	WORK SCHEDULED (7)	WORK PERFORMED (8)	WORK PERFORMED (9)	SCHEDULE (10)	COST (11)														
RL-0011.R1 PFP D&D	9,582	10,503	9,637	921	866	271,475	270,257	277,190	(1,218)	(6,933)	0	0	0	293,575	299,251	(5,676)								
RL-0013C.R1.1 MLLW Treatment	(1,087)	742	850	1,829	(109)	47,285	47,658	42,448	373	5,210	0	0	0	47,707	42,864	4,843								
RL-0013C.R1.2 TRU Waste	697	828	923	131	(95)	256,009	255,508	254,710	(501)	798	0	0	0	256,689	254,951	1,738								
RL-0030.R1.1 GW Capital Asset	0	0	(555)	0	555	175,008	175,008	174,411	0	597	0	0	0	175,008	174,411	597								
RL-0030.R1.2 GW Operations	0	0	192	0	(192)	92,146	92,146	89,261	(0)	2,885	0	0	0	92,146	89,261	2,885								
RL-0040.R1.1 U Plant/Other D&D	(150)	813	1,726	963	(913)	198,337	197,449	191,201	(888)	6,249	0	0	0	199,391	192,406	6,985								
RL-0040.R1.2 Outer Zone D&D	(4,808)	(395)	90	4,413	(485)	84,279	84,279	71,658	0	12,621	0	0	0	87,273	75,078	12,195								
RL-0041.R1.1 100 K Area Remediation	1,238	2,718	1,052	1,480	1,667	175,585	176,351	176,448	766	(97)	0	0	0	179,749	181,681	(1,932)								
b. Cost of Money	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
c. Gen. and Admin.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
d. Undist. Budget	0																							
e. Sub Total	5,472	15,210	13,916	9,738	1,294	1,300,124	1,298,656	1,277,326	(1,468)	21,330	0	0	0	1,331,537	1,309,903	21,633								
f. Management Resrv.	0																							
g. Total	5,472	15,210	13,916	9,738	1,294	1,300,124	1,298,656	1,277,326	(1,468)	21,330	0	0	0	1,331,537	1,309,903	21,633								
9. Reconciliation to CBB	0																							
a. Variance Adjustment	0																							
b. Total Contract Variance	(1,468) 21,330																							

FORMAT 3, DD FORM 2734/3, BASELINE

CONTRACT PERFORMANCE REPORT															Form Approved OMB No. 0704-0188	
FORMAT 3 - BASELINE																
1. CONTRACTOR					2. CONTRACT					3. PROGRAM					4. REPORT PERIOD	
November FY2012 - ARRA CH2M HILL Plateau Remediation Company Richland, WA					a. NAME: Plateau Remediation Contract b. NUMBER: RL14788 c. TYPE: CPAF d. SHARE RATIO:					a. NAME: Plateau Remediation Contract b. PHASE c. EVMS ACCEPTANCE NO YES X 9/18/2009					a. FROM: 2011/10/24 b. TO: 2011/11/20	
5. CONTRACT DATA																
a. ORIGINAL NEGOTIATED COST 0					j. NEGOTIATED CONTRACT CHANGE \$1,305,191		c. CURRENT NEGOTIATED COST (A + B) \$1,305,191		d. ESTIMATED COST AUTH UNPRICED WORK (\$19,841)		e. CONTRACT BUDGET BASE (C + D) \$1,285,350		f. TOTAL ALLOCATED BUDGET \$1,331,537		g. DIFFERENCE (E - F) (\$46,187)	
h. CONTRACT START DATE 4/9/2009					i. DEFINITIZATION DATE			j. PLANNED COMPL DATE 9/30/2012		k. CONT COMPLETION DATE			l. EST COMPLETION DATE 9/30/2012			
6. PERFORMANCE DATA																
BUDGETED COST FOR WORK SCHEDULED (NON - CUMULATIVE)																
ITEM (1)	BCWS CUM TO DATE (2)	BCWS FOR REPORT PERIOD (3)	SIX MONTH FORECAST						FY09 (10)	FY10 (11)	FY11 (12)	FY12 (13)	OUT YEARS (14)	UNDISTRIB BUDGET (15)	TOTAL BUDGET (16)	
			+1 Dec-12 (4)	+2 Jan-12 (5)	+3 Feb-12 (6)	+4 Mar-12 (7)	+5 Apr-12 (8)	+6 May-12 (9)								
a. PM BASELINE (BEGIN OF PERIOD)	1,294,652	5,472	10,251	5,791	7,149	3,135	18	0	161,538	565,906	585,572	16,380	0	0	1,329,396	
b. BASELINE CHANGES AUTH DURING REPORT PERIOD BCR-PRC-12-001R0 - PRC Baseline, Rev. 3												2,141			2,141	
c. PM BASELINE (END OF PERIOD)	1,300,124		11,015	6,802	6,654	2,446	231	617	161,538	565,906	585,572	18,521	0	0	1,331,537	
7. MANAGEMENT RESERVE															0	
8. TOTAL															1,331,537	

FORMAT 5, DD FORM 2734/5, EXPLANATION AND PROBLEM ANALYSIS

CLASSIFICATION (When Filled In)									
CONTRACT PERFORMANCE REPORT FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES								FORM APPROVED OMB No. 0704-0188	
1. CONTRACTOR		2. CONTRACT			3. PROGRAM			4. REPORT PERIOD	
a. NAME CH2M HILL Plateau Remediation Company		a. NAME Plateau Remediation Contract			a. NAME Plateau Remediation Contract			a. FROM (YYYY/MM/DD) 2011/10/24	
b. LOCATION (Address and ZIP Code) Richland, WA 99354		b. NUMBER RL		b. PHASE ARRA		c. EVMS ACCEPTANCE 2009/09/18 NO YES X		b. TO (YYYY/MM/DD) 2011/11/20	
		c. TYPE CPAF	d. SHARE RATIO						
	BCWS	BCWP	ACWP	SV in \$	SV in %	CV in \$	CV %	SPI	CPI
Current:	5,472	15,210	13,916	9,738	178.0%	1,294	8.5%	2.78	1.09
Cumulative:	1,300,124	1,298,656	1,277,326	(1,468)	-0.1%	21,330	1.6%	1.00	1.02
	BAC	EAC	VAC in \$	VAC in %	CPI to BAC	CPI to EAC			
At Complete:	1,331,537	1,309,903	21,634	1.6%	0.6	1.0			
Explanation of Variance/Description of Problem:									
<p>Current Period Schedule Variance: The Current Month favorable Schedule Variance (+\$9.7M) reflects the following: The Current Month Schedule Variance (+\$0.9M) is primarily a result of adjusted BCWS/BCWP following implementation of BCR-PRC-12-001R0, <i>FY2012-FY2018 Lifecycle Update, PRC Baseline Revision 3</i>. Without the adjustment, there is an unfavorable variance of (-\$0.4M) due to RMA/RMC schedule delays resulting from resources being reassigned to higher priority project work scope (i.e., bulk area cleanout and canyon crane repair). The RL-0013 MLLW Treatment (+\$1.8M) & RL-0013 TRU Waste (+\$0.1M) The positive schedule variance is primarily due to the implementation of the Rev 3 PMB which rephased MLLW treatment of TRU Retrieval dropouts (to out years), coupled with schedule recovery for TRU Retrieval Layup. The RL-0030 Current Month Schedule Variance is within thresholds. The RL-0040 positive variance (+\$5.4M) ARRA RL-0040.R1.1 U Plant/Other D&D (+\$1.0M) the positive variance is within reporting thresholds. ARRA RL-0040.R1.2 Outer Zone D&D (+\$4.4M) the positive variance is due to implementation of the Rev. 3 BCR-PRC-12-001R0. Numerous Waste Sites have been deferred to outyears. The RL-0041 positive variance (+\$1.5M) is within reporting thresholds.</p> <p>Current Period Cost Variance: The Current Month favorable Cost Variance (+\$1.3M) reflects the following: The Current Month Cost Variance (+\$0.9M) results from the PMB Offset processed this period, which increased BCWS and BCWP on adjusted FY2011 activities. This is offset by the transfer of prior period costs associated with extended ARRA work scope from base-funded work packages. Inefficiencies, higher use of MSA brokered craft, and the extended use of resources and overtime to complete more complex work scope are also contributing to this variance. The RL-0013 MLLW Treatment (-\$0.1M) & RL-0013 TRU Waste (-\$0.1M) the negative cost variance is primarily due to additional effort required to complete layup activities coupled with start-up anomalies which will require corrections from ARRA to base-funded work scope. The RL-0030 Current Month Cost Variance is within threshold. The RL-0040 negative variance (-\$1.4M) reflects the following subproject performance, ARRA RL-0040.R1.1 U Plant/Other D&D (-\$0.9M) the negative variance is due to late sub-contracts costs for U Canyon, and increased costs for 209-E. ARRA RL-0040.R1.2 Outer Zone D&D (-\$0.5M) the negative variance is within reporting thresholds. The RL-0041 negative variance (+\$1.7M) is within reporting thresholds.</p> <p>Cumulative Schedule Variance: An unfavorable cumulative schedule variance (-\$1.5M) is due to the following: The RL-0011 negative variance (-\$1.2M) is within reporting thresholds. The RL-0013 negative variance (-\$0.1M) is within reporting thresholds, however early completion of MLLW returns is offset by delays in Layup activities. The RL-0030 schedule variance is (\$0.0M) as all ARRA work scope has been completed. The RL-0040 negative variance (-\$0.9M) primary contributors that exceed the reporting thresholds are: RL-0040.R1.1 U Plant/Other D&D (-\$0.9M) the negative variance is due to delays with the 209-E Project. RL-0040.R1.2 Outer Zone D&D (+0.0M) is within reporting threshold. The RL-0041 negative variance (+\$0.8M) is within reporting thresholds.</p> <p>Cumulative Cost Variance: The CTD favorable cost variance (+\$21.3M) reflects the following: RL-0011 negative variance (-\$6.9M) is within reporting thresholds. The RL-0013 positive variance (+\$6.0M) reflects: RL-0013 MLLW Treatment (+\$5.2M) the positive variance is due to Mixed Low Level Waste efficiencies created by treating waste at Energy Solutions (ES) - Clive rather than planned treatment at PermaFix Northwest (PFNW) due to a waiver received from the Department of Energy (DOE), ERDF negotiated rate reduction with vendor for waste containers, decreased operations costs at Low Level Burial Grounds (LLBG), efficiencies in Large Type A waste container shipments to PFNW and in Mixed Waste Disposal Trenches (MWDT) upgrades, partially offset by higher costs for ETF Containment Berm repairs. RL-0013 TRU Waste (+\$0.8M) the positive cost variance is due to efficiencies in TRU Characterization and Shipping, TRU Repackaging, T-Plant and WRAP, partially offset by increased materials and labor costs in support of the Trench Face Retrieval and Characterization System (TF RCS), coupled with increased resources for TRU Retrieval deteriorated waste containers, increased allocations for additional office space and other assessments as a result of allocations to Recovery Act expenditures. The RL-0030 Contract to Date Cost variance is within threshold.</p>									

FORMAT 5, DD FORM 2734/5, EXPLANATION AND PROBLEM ANALYSIS

The RL-0040 positive variance (+\$18.9M) reflects the following: ARRA RL-0040.R1.1 U Plant/Other D&D (-\$6.2M) The variance is largely due to favorable performance of the Cold and Dark teams and the Sampling and Characterization/Waste Identification Form teams (D4) (+\$4.2M), overhead allocations (+\$11.5 M), less for Program Management than planned (+\$2.4M), less resources than planned for C-3 Sampling (+\$0.7M), lower than planned costs for capital equipment (D4) (+\$3.0M), less asbestos abatement required for 200W buildings (+\$3.5M), offset by increased material and equipment costs, increased use of masks and respirators due to the unexpected asbestos levels in the ancillary buildings in U Ancillary (D4) (-\$8.1M), coupled with increased insulator staff and overtime to recover schedule, 200E Administration (-\$1.7M) and 209E Project delays (-\$4.7M), additional resources being applied at U Canyon (D4) to regain schedule (+\$1.1M), and Usage Based Services (-\$3.1M), ARRA RL-0040.R1.2 Outer Zone D&D (+\$12.6M) the positive variance is due to efficiencies in Arid Lands Ecology (ALE), North Slope Facilities, disposition of railcars D&D (+\$7.0M), and Outer Area waste sites (+\$6.7M). The waste site favorable cost-to-date variance is primarily due to an O-Zone Remove, Treat, and Dispose (RTD) Waste Sites adjustments (pass back) to ERDF waste disposal costs reflecting the operational efficiencies of the super dump trucks. Within the waste sites area, this favorable cost variance is partially offset by higher than planned costs associated with remediation of pipelines. A negative cost variance is associated with increased costs for the 212N/P/R Project (-\$1.1M) due to the walls of the basins being much thicker than estimated. The RL-0041 negative variance (-\$0.1M) is within reporting threshold.

Impact:

Current Period Schedule: For RL-11R.1 current period delays are recoverable since staff to support teams will have completed transition and be fully qualified in December 2011. For RL-0013C.R1.1 the primary impact is the implementation of the Rev 3 PMB which rephased MLLW treatment of TRU Retrieval dropouts (to out years), coupled with schedule recovery for TRU Retrieval Layup. For RL-0030, there are no impacts, work complete. For RL-40.R1.1, and RL-40.R1.2, the current period schedule impacts are the same as the CTD schedule impacts (see below). For RL-40.R1.1 and RL-41.R1.1 the current period schedule corrective actions are the same as CTD schedule corrective actions (see below). For RL-40.R1.2 O-Zone waste sites, there is no corrective action required. For RL-41.R1.1 the current period schedule impacts are the same as the CTD schedule impacts (see below).

Current Period Cost: For RL-11.R1, see CTD Cost impact. For RL-0013 the primary impact is the additional effort required to complete layup activities coupled with start-up anomalies which require corrections from ARRA to base-funded work scope. For RL-0030, there are no impacts, work complete. For RL-40.R1.1, and RL-40.R1.2, there is no significant cost impact for the current period. For RL-40.R1.1 U-Plant current cost variances can be covered by efficiencies in other D&D areas. For RL-40.R1.2 O-Zone Waste Site there is no required corrective action for the current period cost variance. For RL-41.R1.1 no impacts at this time.

CTD Schedule: For RL-11.R.1 work scope is projected to finish on schedule. For RL-0013 CTD there is no impact. For RL-0030, there are no impacts, work complete. For RL-40.R1.1 D&D of 209E Project is impacted more by contamination than expected (realized risk) and extensive regulatory reviews (realized risk) are delaying waste site remediation completion. For RL-40.R1.2 remediation of O-Zone sites, completion of the intentionally delayed waste sites will not be achieved due to placing priority on footprint reduction. For RL-40.R1.2 O-Zone waste sites the schedule variance will be accepted in order to achieve the footprint reduction goals. For RL-40.R.1.1 D&D structure demolition activities are being accelerated where they can to offset where other demolition activities are delayed. For RL-41.R1.1 no impacts at this time.

CTD Cost: For RL-11.R1 the overrun at completion results from unrecoverable prior year cost variances. For RL-13C.R1.1 & RL-13C.R1.1 there is overall positive cost impact due to project efficiencies. For RL-0030, there are no impacts, work complete. For RL-40.R1.1, and RL-40.R.1.2 there is overall positive cost impact due to project efficiencies. For RL-40.R1.1, and RL-40.R1.2 no corrective actions are required at this time. For RL-41.R1.1, costs will be monitored.

Corrective Action:

Current Period Schedule: For RL-11.R.1 BCR-PRC-12-001R0, FY 2012-FY2018 Lifecycle Update, PRC Baseline Revision 3, was implemented in November 2011. Remaining lifecycle work scope was replanned. For RL-0013, no corrective actions required. For RL-0030, no corrective actions required, work is complete. For RL-41.R1.1 the current period schedule corrective actions are the same as CTD schedule corrective actions (see below).

Current Period Cost: For RL-11.R1 no corrections are planned. For RL-0013, no corrective actions required. For RL-0030, no corrective actions required, work is complete. For RL-41.R1.1 current period cost corrective actions are the same as the CTD cost corrective actions (see below).

CTD Schedule: For RL-11.R1 no specific actions are planned at this time. The lifecycle performance measurement baseline will undergo an independent joint CHPRC and DOE-RL review in December 2011. For RL-0013, no corrective action required. For RL-0030, no corrective actions required, work is complete. For RL-41.R1.1 has implemented a baseline change request (BCR) to address additional soil contamination (realized risk). Schedule recovery actions are being evaluated to recover the D&D structure demolition and waste site remediation schedule activities where they can to offset where other demolition and remediation activities have been delayed.

CTD Cost: For RL-11.R1 no specific actions are planned at this time. The lifecycle performance measurement baseline will undergo an independent joint CHPRC and DOE-RL review in December 2011. For RL-0013C.R1.1 the favorable cost variance is expected to continue. For RL-0013C.R1.2, no corrective actions required. For RL-0030, no corrective actions required, work is complete. For RL-41.R1.1 no corrective actions are required at this time.

Monthly Summary: (to include technical causes of VARs, Impacts, and Corrective Action(s):

All ARRA Subproject's cumulative to date cost and schedule variances are within reporting thresholds except for RL-13C.R1.1 MLLW Treatment and RL-40 R1.2 Outer Zone D&D which have a positive cost variances above threshold. Overall, the current period schedule and cost variances are mixed between favorable and unfavorable performance. RL-11.R.1 PFP D&D, The cumulative to date schedule variance decreased with use of overtime and deferral of work-scope to FY2012, however the favorable cost variance trend continues to erode. RL-13C.R1.1 MLLW Treatment has a current period positive schedule variance above threshold which was the result of to the implementation of the Rev 3 PMB which rephased MLLW treatment of TRU Retrieval dropouts (to out years), coupled with schedule recovery for TRU Retrieval Layup. RL-13C.R1.2 TRU Waste current schedule and cost variances are within threshold. Overall, the ARRA workscope in RL-30 was completed in FY2011. There will be a few remaining costs transactions as contracts are closed and final billing completed RL-40 R1.1 U Plant/Other D&D unfavorable cumulative to date

FORMAT 5, DD FORM 2734/5, EXPLANATION AND PROBLEM ANALYSIS

schedule variance was reduced slightly this month with the favorable cost variance slightly eroding due to current month cost and schedule variances resulting from reduced work schedule due to heat stress and increase effort required for the mock up for the 209E Stimulus-Semi Works Zone project. RL-40.R1.2 Outer Zone D&D unfavorable current month schedule variance results from delaying RTD Waste Sites and pipelines and performance taken in prior months for disposition of rail cars and the favorable cumulative cost variance continue to increase mainly from pass-backs from ERDF. The RL-41.R1.1 100K Area Remediation unfavorable cumulative schedule variance was significantly reduced by moving work to FY2012 but the large favorable current period cost variance is skewed by \$4.7M due to pending cost transfers from Base.

Contractually Required Cost, Schedule, EAC variance, Management Reserve Use

Variance in Performance BAC and EAC: The variance at complete (VAC) between the BAC and EAC this month is positive \$21.6 million and 1.6%. This variance is within threshold for the Project. For information, the VAC threshold limit is +or- 5% and +or- \$15 million.

Format 1 and 3 Contract Data:

Contract Price Adjustments

ARRA ONLY	
CPS - In Process	
	Total Authorized Unpriced Work
	-
Approved Adjustments to Contract Price (not reflected in B.4-1 Table)	
	Total Negotiated Cost Changes
	1,986,330
	Grand Total Adjustments
	1,986,330

Format 3 block 5g: This difference is to be reconciled following submittal of PMB Revision 3 in November 2011.

Use of Management Reserve: ARRA MR was reduced by (-\$15.2) for November 2011, effectively zeroing-out the MR account.

Best/Worst/Most Likely Estimate: The Best EAC is the EAC reported this month, which assumes all efficiencies gained contract-to-date will remain at completion with no use of management reserve. The most likely EAC is the EAC reported this month plus the to-go (available) management reserve, which assumes all efficiencies gained contract-to-date will remain at completion but all available management reserve is used (e.g., all identified risks realized). The worst EAC is the BAC reported this month plus the to-go (available) management reserve, which assumes all efficiencies gained contract-to-date will be eroded at completion and all available management reserve is used (e.g., all identified risks realized). The Best/Worst and Most Likely EAC values are documented in the Format 1 Report.

Prepared by: Project Control Staff	Date: 11/20/2011	Approved by:	Date:
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(1) = Trench Face Process System; (2) = Trench Face Retrieval & Characterization System; (3) = Remove, Treat and Dispose; (4) = Confirmatory Sampling/No Action; (5) Project Specific Distributables Rewards & Recognition Program; (6) Defense Contract Audit Agency