WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352

October 12, 2010

Michael Neely
CH2M-HILL PRC
PO Box 1600
Richland, WA 99352

Dear Michael Neely,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF102712

Reference: (1) SOW, Mod 2, #36587, Release 3
(2) HNF-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF102712

* Cover Sheet (Attachment 1)
* Narrative (Attachment 2)
* Analytical Results (Attachment 3)
* Sample Receipt Information (Attachment 4)

Very truly yours,

Electronically signed by Richard Barker

For Lab Manager

WSCF Analytical Lab

(509) 373-7495

Attachments 4

CC: w/Attachments

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages

Including cover page

WSCF SAF Number Cross Reference

Group # WSCF102712
Data Deliverable Date 10/12/10

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
X10-039	B24LJ8	102712001	WATER	05/20/10	05/20/10

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 7 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

CH2M Hill Plateau Remediation

PO Box 1600
Richland, WA 99352

Attention: Michael Neely

Contract # MOA-FH-CHPRC-2008
Group # WSCF102712
Report Date October 12, 2010

Analytical: Electronically signed by Richard Barker

Client Services: Electronically signed by Susan Kon

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no `Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Michael Neely
Department Radiochemistry

Group # WSCF102712

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
157238	167662	1	BLANK	37533	BLANK		Americium/Curium (AEA)
157238	167662	2	LCS	37534	LCS		Americium/Curium (AEA)
157238	167662	4	DUP	37535	B265V4(102308003DUP)	102308003	Americium/Curium (AEA)
157238	167662	11	SAMPLE	102712001	B24LJ8		Americium/Curium (AEA)

Method Reference

Attention Michael Neely
Department Radiochemistry

Group # WSCF102712

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-508-471	Determination Of Uranium, Plutonium, And Americium		
	HEIS	AMCMISO_IE_PREC_AEA	Americium/Curium Iso, Alpha Spec

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF102712

Sample # 102712001
SAF# X10-039
Sample ID B24LJ8

Matrix WATER
Sampled 05/20/10
Received 05/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Th/Pu/Am/U Teva										**09/29/10**
AEA Am-U-Pu										
Americium-241	14596-10-2	LA-508-471	U	0.030	.071	pCi/L	1	0.086		10/04/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF102712

QC Batch 157238
Associated Samples 102712001

Test Americium/Curium (AEA)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #37533**								
Americium-241	14596-10-2		0.083	pCi/L						X	10/01/10
LCS			**QC Sample #37534**								
Americium-241	14596-10-2		5.8	pCi/sample	104.9	80 - 120					10/01/10
DUP			**QC Sample #37535**								
			Original 102308003								
Americium-241	14596-10-2		0.030	pCi/L			60.90	-20 - 20	*	U	10/01/10
SAMPLE			**Sample #102712001**								
Americium-243 Tracer	14993-75-0				83	25 - 105					10/04/10
BLANK			**QC Sample #37533**								
Americium-243 Tracer	14993-75-0				81.2	25 - 105					10/01/10
LCS			**QC Sample #37534**								
Americium-243 Tracer	14993-75-0				93.3	25 - 105					10/01/10
DUP			**QC Sample #37535**								
			Original 102308003								
Americium-243 Tracer	14993-75-0				86	25 - 105	0.00				10/01/10

Analytical Comment Report

Attention: Michael Neely **Group #** WSCF102712

Quality Control Comments

Department Radiochemistry

37533 BLANK for HBN 157238 [RADP/375

Analyte Americium-241 - Americium/Curium (AEA)

[1] The blank is less than 2X the MDC and is acceptable.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 3 pages
Including cover page

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory
PO Box 650 S3-30
Richland, WA 99352

ATTN: Michael Neely

Customer Code: CHPRC
PO #: 401647
Work Order #: 102712
Profile #: X10-039-10 RERUN
Proj. Mgr.:
Phone:

The following samples were received from you on 5/20/2010 2:55:00 PM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
		Tests scheduled		
102712001	B24LJ8	WATER	5/20/2010 10:47	5/20/2010 14:55
		AEA-AM-W		

Test Acronym Description

Test Acronym	Description
AEA-AM-W	Americium (AEA) (W)

Sample Receipt

WSCF 102712 10/12

08/04/2010
RECHECK, RECOUNT, OR REANALYSIS ORDER
CONTRACT NO MW6-SBB-A19981

Waste Sampling & Characterization
600 AREA Hanford, MSIN S3-28
Richland, WA 99352

CHPRC Order Number: 100804WSCF-R6652
Sample Delivery Group: WSCF101076
Special Instructions None
Samples(s)

Lab Sample ID	CHPRC Sample	Action	TAT	METHOD_NAME:
101076002	B24LJ8	Reanalysis	30/30	AMCMISO_IE_PREC

Deliver Report Results CH2M Hill Plateau Remediation Company
P.O. Box 1600
Mail Stop - R3-60
Richland, WA 99352
C/O Mr. Mike Neely

Monday, October 11, 2010 4:03:08 PM
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