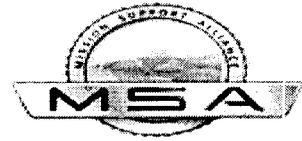


WSCF Laboratory

RECEIVED AUGUST 03, 2011

1216618

PO Box 650 S3-30
Richland, WA 99352



August 3, 2011

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

RDR 7275 KB 8-9-11

Dear Michael Neely,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF112809

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 WSCF112809

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

Very truly yours,

Electronically signed by Joseph Hale

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 # WSCF112809
Data Deliverable Date 06/28/11

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
F11-001	B29M56	112809001	WATER	06/13/11	06/13/11

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Introduction RDR R7275

A sample was selected for reanalysis at the WSCF Laboratory. The sample was selected from 110727WSCF-R7275. The sample was analyzed for the analytes indicated on the attached copy of the RDR form in accordance with the *Statement of Work (SOW), Modification No. 2 to Agreement 36587, Release 3, "FH WSCF ANALYTICAL SERVICES FOR GROUNDWATER."*

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

It should be noted that the attached chain of custody was not stamped "ICED" by the WSCF Laboratory Sample Custodian during sample receiving. However, based on procedure LO-090-403 form "NOTICE OF IMPROPER SAMPLE SUBMITTAL" was not submitted and was not stamped "NOT ICED". No anomaly was noted during sample receipt.

The following generic data qualifiers (i.e., B, D, U and J) may be applicable to this report, as appropriate

- **B** – Sample results with a concentration greater than the MDL but less than the PQL are B flagged (applies to inorganic and wet chemical analyses), as appropriate.
- **D** – Sample results are D flagged if dilution(s) were required, as appropriate.
- **J** – Sample results with a concentration greater than the MDL but less than the PQL are J flagged (applies to organic analyses), as appropriate.
- **U** – Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

Radiochemistry Comments

- Gross Beta:
 - There is no difference in the results between the original run and the rerun, they were both U.
 - All applicable QC controls are within the established limits.

Attachment 2
Narrative
WSCF112809

We certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Analytical Laboratory Manager (or designee) and the Client Services representative as verified by electronic signatures shown on the WSCF ANALYTICAL RESULTS REPORT.

Order Number: 110727WSCF-R7275

Waste Sampling & Characterization

600 AREA Hanford, MSIN S3-28

Richland, WA 99352

Sample Delivery Group: WSCF112457

Sample(s):

Method Name: BETA_GPC

Sample #: B29M56 Sample Date: 6/13/11 11:10 am SAF #:
F11-001

Lab Sample ID	RDR Action Start Date	Constituent	Action
TAT (Hardcopy/EDD)			
112457001 Days / 15 Days	7/27/2011 7:46 am	Gross beta	REANALYZE 15

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 6 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 # WSCF112809
Report Date August 3, 2011

Analytical: Electronically signed by Joseph Hale

Client Services: Electronically signed by Richard Barker

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 # WSCF112809

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
187159	187247	1	BLANK	61774	BLANK		Gross Alpha/Gross Beta
187159	187247	2	LCS	61775	LCS		Gross Alpha/Gross Beta
187159	187247	3	DUP	61776	B29M56(112809001DUP)	112809001	Gross Alpha/Gross Beta
187159	187247	4	SAMPLE	112809001	B29M56		Gross Alpha/Gross Beta

Method Reference**Attention** Michael Neely
Department Radiochemistry**Group #**

WSCF112809

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-508-415	Operation Of The Protean 2-Inch Alpha/Beta Counting System For Gross Alpha/ Beta Samples
HEIS	ALPHA_GPC Gross Alpha by GPC
HEIS	BETA_GPC Gross Beta by GPC
HEIS	SRTOT_SEP_PRECIP_GPC Strontium beta isotopic, GPC

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 # WSCF112809

Sample # 112809001
SAF# F11-001
Sample ID B29M56
Matrix WATER
Sampled 06/13/11
Received 06/13/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										07/29/11
Gross Alpha/Beta										
Gross Beta	12587-47-2	LA-508-415	U	1.8	2	pCi/L	1	3.2		08/01/11

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 # WSCF112809

QC Batch 187159
 Associated Samples 112809001

Test Gross Alpha/Gross Beta

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										
Gross Beta LCS	12587-47-2	-1.1		pCi/L					U	08/01/11
Gross Beta DUP	12587-47-2	250		pCi/L	114.5	80 - 120				08/01/11
Gross Beta	12587-47-2	1.8	2.4	pCi/L			28.60	20	* U	08/01/11

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 #: 402415

Work Order #: 112809

Profile #: RERUN F11-001-003

Proj. Mgr.:

Phone:

The following samples were received from you on 6/13/2011 1:55:00 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		
112809001	B29M56	WATER	6/13/2011 11:10	6/13/2011 13:55
		GAB-BO-W		

Test Acronym Description

Test Acronym	Description
GAB-BO-W	Gross Alpha/Beta (B only)(W)

Sample Receipt

RECHECK, RECOUNT, OR REANALYSIS ORDER

07/27/2011

Rem
112809
HJ

Order Number: 110727WSCF-R7275
Waste Sampling & Characterization
600 AREA Hanford, MSIN S3-28
Richland, WA 99352

Sample Delivery Group: WSCF112457

Sample(s):

Method Name: BETA_GPC

Sample #:	B29M56	Sample Date:	6/13/11 11:10 am	SAF #:	F11-001
Lab Sample ID	RDR Action Start Date	Constituent	Action	TAT (Hardcopy/EDD)	
112457001	7/27/2011 7:46 am	Gross beta	REANALYZE	15 Days / 15 Days	

Deliver Report Results to: CH2M Hill Plateau Remediation Company
P.O. Box 1600
Richland, WA 99352-1234
C/O Mr. Mike Neely

Friday, July 29, 2011 9:35:15 AM

Page 2 of 2