

RECEIVED AUGUST 7, 2008

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Fluor Hanford
WSCF Analytical Lab
P.O. Box 1000
Richland, WA 99352
Telephone 373-7495
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FLUOR

Memorandum

M4W41-SLF-08-794

To: H. Hampt E6-35 Date: August 7, 2008

From: S. L. Fitzgerald, Manager *by Sullivan J. Baird*
WSCF Analytical Lab

cc: w/Attachments
T. F. Dale S3-30 J. E. Trechter S3-30
D. Felmy (PNNL) K6-75 S. J. Trent E6-35
H. K. Meznarich S3-30 File/LB
P. D. Mix S3-30

Subject: RDRs #R4907 AND R4913 -- SAMPLE DELIVERY GROUP WSCF20081416

- Reference:
- 1) Letter of Instruction for Analytical Services for the Groundwater Performance Assessment Project and Analytical Laboratory Transition Plan, FH-0602422, September 19, 2006
 - 2) HNF-SD-CD-QAPP-017, Rev. 9, Waste Sampling & Characterization Facility Quality Assurance Plan

On July 1, 2008, RDRs #R4907 and R4913 were received by the WSCF Laboratory. This transmittal contains the following RDR information for sample delivery group WSCF20081416:

- Recheck, Recount, or Reanalysis Orders, dated July 1, 2008 (Attachment 1)
- Analytical Results (Attachment 2)
- Sample Receipt Acknowledgement (Attachment 3)

The NP237 result for B1R2N6 was slightly above the detection limit, with no clear indication of interference by 234U. The sample and duplicate results were reproducible.

Sample B1T2Y2 was less than the detection limit for NP237. Prior result was a false positive from 234U interference.

If you have any questions, please call Pauline Mix on 372-1488.

SLF/cmj

Attachments 3

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ATTACHMENT 1

RECHECK, RECOUNT, OR REANALYSIS ORDERS

Consisting of 3 pages
Including cover page

07/01/2008
RECHECK, RECOUNT, OR REANALYSIS ORDER
CONTRACT NO MW6-SBB-A19981

**Waste Sampling &
600 AREA Hanford, MSIN
Richland, WA 99352**

Battelle PNNL Order Number: 0800701WSCF-R4907

Sample Delivery Group: WSCF20072206 (WSCF20081416)

Special Instructions None

Samples(s)

Lab Sample ID	PNNL Sample	Action	TAT	METHOD_NAME:
108-001 W07P003722	B1R2N6	Recheck/Reanalysis	15/15	NP237_IE_PRECIP-AEA

WSCF Response

Per client request, sample was re-analyzed and new report issued to client.

Deliver Report Results to: Fluor Hanford, Inc.
1200 Jadwin Ave.
Richland, WA 99352
C/O Mr. Steve Trent

The report results must reference the Battelle PNNL-order number, SDG number, and the Battelle PNNL sample identification number shown above.

07/01/2008
RECHECK, RECOUNT, OR REANALYSIS ORDER
CONTRACT NO MW6-SBB-A19981

**Waste Sampling &
600 AREA Hanford, MSIN
Richland, WA 99352**

Battelle PNNL Order Number: 080701WSCF-R4913

Sample Delivery Group: WSCF20080358 (WSCF20081416)

Special Instructions None

Samples(s)

Lab Sample ID	PNNL Sample	Action	TAT	METHOD_NAME:
108-022 W08P001121	B1T2Y2	Recheck/Reanalysis	15/15	NP237_IE_PRECIP_A

WSCF Response

Per client request, sample was re-analyzed and new report issued to client.

Deliver Report Results to: Fluor Hanford, Inc.
1200 Jadwin Ave.
Richland, WA 99352
C/O Mr. Steve Trent

The report results must reference the Battelle PNNL-order number, SDG number, and the Battelle PNNL sample identification number shown above.

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ATTACHMENT 2

ANALYTICAL RESULTS

Consisting of 4 pages
Including cover page

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I08-007

Sample # W08P003436

Client ID: B1R2N6 NP RERUN
WSCF

Matrix: WATER

Group #: WSCF20081416

Department: Radiochemistry

Sampled: 12/10/07

Received: 12/10/07

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471		0.450	pCi/L	+ -0.297	pCi/L	1.00	0.30		08/01/08

MDL = Minimum Detection Limit

U - Analyzed for but not detected above limiting criteria (inorg)

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

GPAP

6 of 10

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent E6-35

SAF Number: I08-022

Sample #: W08P003437

Client ID: B1T2Y2 NP RERUN
WSCF

Matrix: WATER

Group #: WSCF20081416

Department: Radiochemistry

Sampled: 02/25/08

Received: 02/25/08

Test Performed	CAS #	Method	RQ	Result	Unit	TP Err	Unit	DF	MDL	PQL	Analysis Date
Neptunium by AEA											
Neptunium-237	13994-20-2	LA-508-471	U	0.130	pCi/L	+ -0.228	pCi/L	1.00	0.41		08/01/08

MDL=Minimum Detection Limit

U - Analyzed for but not detected above limiting criteria(inorg)

RQ=Result Qualifier

TP Err=Total Propagated Error

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 5.2

GPAP

WSCF ANALYTICAL LABORATORY QC REPORT

Department: Radiochemistry

SDG Number: WSCF20081416
 Matrix: WATER
 Test: Neptunium by AEA

Sample Date: 12/10/07
 Receive Date: 12/10/07

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Lower Limit	Upper Limit	RPD(%)	RPD Limit	RQ	Analysis Date
Lab ID: W08P003436											
BATCH QC ASSOCIATED WITH SAMPLE											
DUP	Neptunium-237	13994-20-2	0.56		RPD			21.782	20.000		08/01/08
MS	Neptunium-237	13994-20-2	100.65	100.650	% Recov	75.000	125.000				08/01/08
MSD	Neptunium-237	13994-20-2	92.75	92.750	% Recov	75.000	125.000				08/01/08
SPK-RPD	Neptunium-237	13994-20-2	92.750		% RPD			8.170	20.000		08/01/08
Lab ID: W08P003437											
BATCH QC ASSOCIATED WITH SAMPLE											
MS	Neptunium-237	13994-20-2	98.2	98.200	% Recov	75.000	125.000				08/01/08
BATCH QC											
BLANK	Neptunium-237	13994-20-2	U-0.14	n/a	pCi/L	-10.000	1000.000				08/04/08
LCS	Neptunium-237	13994-20-2	8.5	66.693	% Recov	80.000	120.000				08/04/08

M4W41-SLF-08-794

ATTACHMENT 3

SAMPLE RECEIPT ACKNOWLEDGEMENT

Consisting of 2 pages
Including cover page

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

File

ACKNOWLEDGMENT OF SAMPLES RECEIVED

GPAP

Richland, WA 99352
Attn: Steve Trent E6-35

Customer Code: PNNL-GPP
PO#: 122543
Group#: 20081416

07/28/08

td

R4907
R4913

The following samples were received from you on 12/10/07. 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	Tests Scheduled	Matrix	Sample Date
W08P003436	B1R2N6	NP RERUN @AEA-33	Water	12/10/07
W08P003437	B1T2Y2	NP RERUN @AEA-33	Water	02/25/08

Test Acronym Description

Test Acronym	Description
@AEA-33	Neptunium by AEA