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WSCF-20031181

SAF F03-006

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APR 06 2012
EDMC

REANALYSIS DATA PACKAGE

Covers original SDG numbers

WSCF20030459
WSCF20030460
WSCF20030461
WSCF20030470
WSCF20030492
WSCF2003515
WSCF20030524

Fluor Hanford, Inc.
Post Office Box 1000
Richland, Washington 99352

FLUOR

Memorandum

T4180-03-SLF-036

To:	S. J. Trent	Date:	September 18, 2003
From:	S. L. Fitzgerald, Manager WSCF Analytical Services	Telephone:	373-7495

cc:	W/Attachments		W/O Attachments	
	T. F. Dale	S3-28	D. M. Thornton	S3-30
	S. L. Fitzgerald	S3-30	D. Hart	S3-30
	H. K. Meznarich	S3-30	L. C. Swanson	E6-35
	J. E. Trechter	S3-30	File/LB	
	M. Neely	S3-30		

Subject: RERUN GEA SAMPLE RESULTS FOR 200-PW-2/200-PW-4 OU- BOREHOLE SOIL SAMPLING- SAMPLE DELIVERY GROUP WSCF20031181- SAF NUMBER F03-006

References: (1) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEN-001, October 31, 2002

(2) HNF-SD-CD-QAPP-017, Rev. 5, Waste Sampling and Characterization Facility Quality Assurance Plan

This letter contains a narrative (Attachment 1) for the sample delivery group (WSCF20031181), the analytical results (Attachment 2) and the sample receipt information (Attachment 3).

slf/ddw

Attachments 3

SEP 2003
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T4180-03-SLF-036

ATTACHMENT 1

NARRATIVE

Consisting of 2 pages
Cover page not included

Customer Sample Number	Original Sample Delivery Group
B16RX6	WSCF20030459
B16RX7	WSCF20030460
B16RX8	WSCF20030461
B16RX9	WSCF20030461
B16RY0	WSCF20030470
B16RY1	WSCF20030470
B16RY2	WSCF20030470
B16RY3	WSCF20030492
B16RY4	WSCF20030515
B16RY5	WSCF20030524
B16VV9	WSCF20030524

Introduction

GPP requested WSCF to rerun the above samples to include QC data for the GEA test. These samples were analyzed in accordance with the *Groundwater Protection Program- Letter of Instruction*, referenced in the cover letter.

The narrative (Attachment 1) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 2) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information. Copies of the client correspondence are included as Attachment 3.

Analytical Methodology for Requested Analyses

- The GEA analysis was run by internal WDOE accredited WSCF procedures. Analytical work was performed with no deviations to the approved method.

Comments

RadChem – There are no hold times associated with this WDOE accredited method. A Laboratory Control Sample, Blank and Duplicate (per agreement with the client, the duplicate is a recount of one the samples in the batch) were analyzed with this assigned delivery group. See page(s) 2-27, and 2-28 for QC details. The upper and lower limits for the BLANK (page 2-28) have been established as starting points for the GEA analysis. As more analyses are run, these limits will be adjusted.

This Summary Report is in compliance with the SOW, both technically and for completeness. Release of the data contained in this hard copy report has been authorized by the WSCF Laboratory Analytical Manager and Client Services, as verified by the following signature.

Troy Dale
WSCF Production Control

Abbreviations

Hg – mercury
IC – ion chromatography
ICP – inductively coupled plasma
ICP/AES – ICP/atomic emission spectroscopy
ICP/MS – ICP/mass spectrometry
Total U – total uranium
AT/TB – total alpha/total beta
AEA – Alpha Energy Analysis
WTPH-G – Total Hydrocarbons-Gasoline
Am – americium
Cm - curium
Pu – plutonium
Np – neptunium
GEA – gamma energy analysis
H3 – Tritium
Sr – Strontium 89, 90
WTPH-D – Total Hydrocarbons-Diesel
TSS – Total Suspended Solids

T4180-03-SLF-036

ATTACHMENT 2

ANALYTICAL RESULTS

Consisting of 28 pages
Cover page not included

WSCF
ANALYTICAL RESULTS REPORT

for

Ground Water Protection Program

Richland, WA 99352

Attention: Steve Trent

Analytical:

Client Services:

All results are reported on an "as received" basis unless otherwise noted in the comment section.

Confidentiality Notice: The information contained in this report is privileged and confidential information intended only for the use of the addressee. If the reader of this report is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone at (509) 373-7020.

Contract#: F03-006
Report#: WSCF20031181
Report Date: 16-sep-2003
Report WGPP/ver. 1
Ground Water Protection Program

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000731	B16RX6 DUP 20030459	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	4.26e-03	pCi/g	1.00	0.012	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 7.11e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	14234-35-6	Antimony-125	SOIL	LA-508-462	U	-0.0160	pCi/g	1.00	0.036	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0224	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	13967-70-9	Cesium-134	SOIL	LA-508-462	U	3.49e-020.	pCi/g	1.00	0.017	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		43.4	%	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	10045-97-3	Cesium-137	SOIL	LA-508-462	U	1.08e-03	pCi/g	1.00	0.014	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0100	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	14683-23-9	Europium-152	SOIL	LA-508-462	U	-0.0184	pCi/g	1.00	0.040	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0298	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	15585-10-1	Europium-154	SOIL	LA-508-462	U	-0.0273	pCi/g	1.00	0.038	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0273	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	14391-16-3	Europium-155	SOIL	LA-508-462		0.0661	pCi/g	1.00	0.082	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0545	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	15832-50-5	Tin-126	SOIL	LA-508-462	U	0.190	pCi/g	1.00	0.20	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Sn-126 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0701	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	15262-20-1	Radium-228	SOIL	LA-508-462		0.523	pCi/g	1.00	0.042	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Ra-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0785	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	13982-63-3	Radium-226	SOIL	LA-508-462		0.439	pCi/g	1.00	0.026	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Ra-226 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0615	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	13982-39-3	Zinc-65	SOIL	LA-508-462	U	0.0285	pCi/g	1.00	0.030	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Zn-65 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0202	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	14681-63-1	Niobium-94	SOIL	LA-508-462	U	0.0106	pCi/g	1.00	0.014	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Nb-94 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0149	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	13968-53-1	Ruthenium-103	SOIL	LA-508-462	U	5.17e-03	pCi/g	1.00	0.013	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Ru-103 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 7.60e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	13967-48-1	Ruthenium-106	SOIL	LA-508-462	U	-0.0401	pCi/g	1.00	0.12	09/08/03	n/a	08/27/03

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

DF=Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

2 - 3

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000731	B16RX6 DUP 20030459	E,T,C	Ru-106 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0738	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	13966-06-8	Tin-113	SOIL	LA-508-462	U	-5.81e-03	pCi/g	1.00	0.017	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Sn-113 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0103	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	14762-78-8	Cerium-144	SOIL	LA-508-462	U	-0.0595	pCi/g	1.00	0.14	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Ce-144 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0958	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	14913-50-9	Thallium-208	SOIL	LA-508-462		0.171	pCi/g	1.00	0.014	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Tl-208 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0250	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	14913-49-6	Bismuth-212	SOIL	LA-508-462		0.343	pCi/g	1.00	0.11	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Bi-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.111	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	15092-94-1	Lead-212	SOIL	LA-508-462		0.536	pCi/g	1.00	0.028	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Pb-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0552	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	14733-03-0	Bismuth-214	SOIL	LA-508-462		0.439	pCi/g	1.00	0.026	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Bi-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0615	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	15067-28-4	Lead-214	SOIL	LA-508-462		0.472	pCi/g	1.00	0.030	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Pb-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0524	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	14331-83-0	Actinium-228	SOIL	LA-508-462		0.523	pCi/g	1.00	0.042	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Ac-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0785	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	15065-10-8	Thorium-234	SOIL	LA-508-462		56.8	pCi/g	1.00	1.5	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Th-234 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 5.96	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	15117-96-1	Uranium-235	SOIL	LA-508-462		0.823	pCi/g	1.00	0.14	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	U-235 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.174	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	14596-10-2	Americium-241	SOIL	LA-508-462	U	0.302	pCi/g	1.00	0.21	09/08/03	n/a	08/27/03
W030000731	B16RX6 DUP 20030459	E,T,C	Am-241 Rel Count Error (GEA)	SOIL	LA-508-462		+- 0.135	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	1.85e-03	pCi/g	1.00	0.012	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 6.83e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	14234-35-6	Antimony-125	SOIL	LA-508-462	U	-0.0110	pCi/g	1.00	0.030	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0176	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

0000011

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000732	B16RX7 DUP 20030460	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0268	pCi/g	1.00	0.014	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0119	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	10045-97-3	Cesium-137	SOIL	LA-508-462	U	-8.52e-03	pCi/g	1.00	0.012	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 8.52e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	14683-23-9	Europium-152	SOIL	LA-508-462	U	-0.0163	pCi/g	1.00	0.033	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0235	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	15585-10-1	Europium-154	SOIL	LA-508-462	U	-6.79e-03	pCi/g	1.00	0.036	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0219	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	14391-16-3	Europium-155	SOIL	LA-508-462	U	0.0483	pCi/g	1.00	0.058	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0427	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	15832-50-5	Tin-126	SOIL	LA-508-462	U	0.166	pCi/g	1.00	0.20	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Sn-126 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0365	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	15262-20-1	Radium-228	SOIL	LA-508-462		0.552	pCi/g	1.00	0.039	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Ra-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0795	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	13982-63-3	Radium-226	SOIL	LA-508-462		0.435	pCi/g	1.00	0.022	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Ra-226 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0600	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	13982-39-3	Zinc-65	SOIL	LA-508-462	U	0.0201	pCi/g	1.00	0.027	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Zn-65 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0178	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	14681-63-1	Niobium-94	SOIL	LA-508-462	U	2.01e-03	pCi/g	1.00	0.011	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Nb-94 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 6.41e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	13968-53-1	Ruthenium-103	SOIL	LA-508-462	U	-1.31e-03	pCi/g	1.00	0.011	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Ru-103 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 6.31e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	13967-48-1	Ruthenium-106	SOIL	LA-508-462	U	0.0182	pCi/g	1.00	0.099	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Ru-106 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0592	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	13966-06-8	Tin-113	SOIL	LA-508-462	U	2.34e-03	pCi/g	1.00	0.014	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Sn-113 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 8.70e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	14762-78-8	Cerium-144	SOIL	LA-508-462	U	-0.0515	pCi/g	1.00	0.10	09/10/03	n/a	08/27/03

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

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

WSCF
ANALYTICAL RESULTS REPORT

0000012

2-5

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000732	B16RX7 DUP 20030460	E,T,C	Ce-144 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0644	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	14913-50-9	Thallium-208	SOIL	LA-508-462		0.182	pCi/g	1.00	0.011	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Tl-208 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0260	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	14913-49-6	Bismuth-212	SOIL	LA-508-462		0.424	pCi/g	1.00	0.088	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Bi-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.128	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	15092-94-1	Lead-212	SOIL	LA-508-462		0.577	pCi/g	1.00	0.022	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Pb-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0537	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	14733-03-0	Bismuth-214	SOIL	LA-508-462		0.435	pCi/g	1.00	0.022	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Bi-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0600	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	15067-28-4	Lead-214	SOIL	LA-508-462		0.484	pCi/g	1.00	0.024	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Pb-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0503	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	14331-83-0	Actinium-228	SOIL	LA-508-462		0.552	pCi/g	1.00	0.039	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Ac-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0795	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	15065-10-8	Thorium-234	SOIL	LA-508-462		13.3	pCi/g	1.00	0.87	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Th-234 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 1.76	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	15117-96-1	Uranium-235	SOIL	LA-508-462		0.222	pCi/g	1.00	0.10	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	U-235 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.101	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	14596-10-2	Americium-241	SOIL	LA-508-462	U	1.84e-03	pCi/g	1.00	0.12	09/10/03	n/a	08/27/03
W030000732	B16RX7 DUP 20030460	E,T,C	Am-241 Rel Count Error (GEA)	SOIL	LA-508-462		+- 0.0184	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	-6.34e-03	pCi/g	1.00	0.014	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 8.50e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	14234-35-6	Antimony-125	SOIL	LA-508-462	U	6.85e-03	pCi/g	1.00	0.041	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0238	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0251	pCi/g	1.00	0.019	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0111	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	10045-97-3	Cesium-137	SOIL	LA-508-462	U	-0.0159	pCi/g	1.00	0.015	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0159	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

DF=Dilution Factor

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Report WGPP/ver. 1
Ground Water Protection Program

WSCF
ANALYTICAL RESULTS REPORT

2 - 6

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000733	B16RX8 DUP 20030461	14683-23-9	Europium-152	SOIL	LA-508-462	U	-3.18e-03	pCi/g	1.00	0.044	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0318	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	15585-10-1	Europium-154	SOIL	LA-508-462	U	-0.0182	pCi/g	1.00	0.043	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0315	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	14391-16-3	Europium-155	SOIL	LA-508-462	U	-9.59e-03	pCi/g	1.00	0.090	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0531	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	15832-50-5	Tin-126	SOIL	LA-508-462	U	7.19e-03	pCi/g	1.00	8.0e-03	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Sn-126 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0599	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	15262-20-1	Radium-228	SOIL	LA-508-462		0.586	pCi/g	1.00	0.047	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Ra-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0961	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	13982-63-3	Radium-226	SOIL	LA-508-462		0.484	pCi/g	1.00	0.028	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Ra-226 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0770	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	13982-39-3	Zinc-65	SOIL	LA-508-462	U	-2.80e-04	pCi/g	1.00	0.032	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Zn-65 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 2.80e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	14681-63-1	Niobium-94	SOIL	LA-508-462	U	-1.41e-03	pCi/g	1.00	0.014	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Nb-94 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 8.71e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	13968-53-1	Ruthenium-103	SOIL	LA-508-462	U	4.00e-03	pCi/g	1.00	0.014	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Ru-103 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 8.40e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	13967-48-1	Ruthenium-106	SOIL	LA-508-462	U	0.0406	pCi/g	1.00	0.13	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Ru-106 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0792	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	13966-06-8	Tin-113	SOIL	LA-508-462	U	-3.07e-03	pCi/g	1.00	0.019	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Sn-113 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0115	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	14762-78-8	Cerium-144	SOIL	LA-508-462	U	0.0162	pCi/g	1.00	0.15	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Ce-144 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.101	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	14913-50-9	Thallium-208	SOIL	LA-508-462		0.182	pCi/g	1.00	0.016	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Tl-208 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0295	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	14913-49-6	Bismuth-212	SOIL	LA-508-462		0.467	pCi/g	1.00	0.12	09/10/03	n/a	08/27/03

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
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WSCF
ANALYTICAL RESULTS REPORT

2 - 7

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000733	B16RX8 DUP 20030461	E,T,C	Bi-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.147	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	15092-94-1	Lead-212	SOIL	LA-508-462		0.588	pCi/g	1.00	0.033	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Pb-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0588	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	14733-03-0	Bismuth-214	SOIL	LA-508-462		0.484	pCi/g	1.00	0.028	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Bi-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0770	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	15067-28-4	Lead-214	SOIL	LA-508-462		0.533	pCi/g	1.00	0.033	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Pb-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0618	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	14331-83-0	Actinium-228	SOIL	LA-508-462		0.586	pCi/g	1.00	0.047	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Ac-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0961	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	15065-10-8	Thorium-234	SOIL	LA-508-462		34.4	pCi/g	1.00	1.4	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Th-234 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 3.75	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	15117-96-1	Uranium-235	SOIL	LA-508-462		0.517	pCi/g	1.00	0.15	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	U-235 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.129	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	14596-10-2	Americium-241	SOIL	LA-508-462	U	1.88e-010.	pCi/g	1.00	0.19	09/10/03	n/a	08/27/03
W030000733	B16RX8 DUP 20030461	E,T,C	Am-241 Rel Count Error (GEA)	SOIL	LA-508-462		68.9	%	1.00	0.0	09/10/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	-4.55e-03	pCi/g	1.00	0.012	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 7.10e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	14234-35-6	Antimony-125	SOIL	LA-508-462	U	0.0132	pCi/g	1.00	0.039	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0235	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0294	pCi/g	1.00	0.017	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0141	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	10045-97-3	Cesium-137	SOIL	LA-508-462	U	-5.93e-03	pCi/g	1.00	0.014	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 8.66e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	14683-23-9	Europium-152	SOIL	LA-508-462	U	-0.0297	pCi/g	1.00	0.044	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0440	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	15585-10-1	Europium-154	SOIL	LA-508-462	U	-4.51e-03	pCi/g	1.00	0.037	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0221	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
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WSCF
ANALYTICAL RESULTS REPORT

2 - 8

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000734	B16RX9 DUP 20030461	14391-16-3	Europium-155	SOIL	LA-508-462	U	0.0588	pCi/g	1.00	0.10	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0606	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	15832-50-5	Tin-126	SOIL	LA-508-462	U	-0.0238	pCi/g	1.00	0.11	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Sn-126 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.119	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	15262-20-1	Radium-228	SOIL	LA-508-462		0.515	pCi/g	1.00	0.043	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Ra-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0824	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	13982-63-3	Radium-226	SOIL	LA-508-462		0.372	pCi/g	1.00	0.028	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Ra-226 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0565	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	13982-39-3	Zinc-65	SOIL	LA-508-462	U	0.0132	pCi/g	1.00	0.029	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Zn-65 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0191	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	14681-63-1	Niobium-94	SOIL	LA-508-462	U	7.31e-03	pCi/g	1.00	0.014	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Nb-94 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 7.97e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	13968-53-1	Ruthenium-103	SOIL	LA-508-462	U	-1.62e-03	pCi/g	1.00	0.013	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Ru-103 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 8.18e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	13967-48-1	Ruthenium-106	SOIL	LA-508-462	U	-0.0290	pCi/g	1.00	0.12	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Ru-106 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0734	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	13966-06-8	Tin-113	SOIL	LA-508-462	U	1.18e-03	pCi/g	1.00	0.018	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Sn-113 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0118	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	14762-78-8	Cerium-144	SOIL	LA-508-462	U	5.52e-03	pCi/g	1.00	0.16	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Ce-144 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0552	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	14913-50-9	Thallium-208	SOIL	LA-508-462		0.169	pCi/g	1.00	0.014	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Tl-208 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0265	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	14913-49-6	Bismuth-212	SOIL	LA-508-462		0.316	pCi/g	1.00	0.11	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Bi-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.106	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	15092-94-1	Lead-212	SOIL	LA-508-462		0.558	pCi/g	1.00	0.031	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Pb-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0564	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	14733-03-0	Bismuth-214	SOIL	LA-508-462		0.372	pCi/g	1.00	0.028	09/08/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

000016 2-9

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000734	B16RX9 DUP 20030461	E,T,C	Bi-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0565	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	15067-28-4	Lead-214	SOIL	LA-508-462		0.426	pCi/g	1.00	0.032	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Pb-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0515	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	14331-83-0	Actinium-228	SOIL	LA-508-462		0.515	pCi/g	1.00	0.043	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Ac-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0824	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	15065-10-8	Thorium-234	SOIL	LA-508-462		37.3	pCi/g	1.00	1.7	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Th-234 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 4.33	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	15117-96-1	Uranium-235	SOIL	LA-508-462		0.618	pCi/g	1.00	0.16	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	U-235 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.139	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	14596-10-2	Americium-241	SOIL	LA-508-462	U	0.895	pCi/g	1.00	0.24	09/08/03	n/a	08/27/03
W030000734	B16RX9 DUP 20030461	E,T,C	Am-241 Rel Count Error (GEA)	SOIL	LA-508-462		+- 0.181	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	3.76e-03	pCi/g	1.00	0.028	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0157	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	14234-35-6	Antimony-125	SOIL	LA-508-462	U	-4.34e-03	pCi/g	1.00	0.055	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0333	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0498	pCi/g	1.00	0.031	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0278	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	10045-97-3	Cesium-137	SOIL	LA-508-462	U	3.13e-04	pCi/g	1.00	0.025	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 3.13e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	14683-23-9	Europium-152	SOIL	LA-508-462	U	8.12e-03	pCi/g	1.00	0.055	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0548	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	15585-10-1	Europium-154	SOIL	LA-508-462	U	8.56e-03	pCi/g	1.00	0.083	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0489	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	14391-16-3	Europium-155	SOIL	LA-508-462	U	0.0143	pCi/g	1.00	0.072	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0429	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	15832-50-5	Tin-126	SOIL	LA-508-462	U	0.0890	pCi/g	1.00	0.090	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Sn-126 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0488	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

2 - 10

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000735	B16RY0 DUP 20030470	15262-20-1	Radium-228	SOIL	LA-508-462		0.508	pCi/g	1.00	0.083	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Ra-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.128	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	13982-63-3	Radium-226	SOIL	LA-508-462		0.344	pCi/g	1.00	0.047	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Ra-226 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0702	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	13982-39-3	Zinc-65	SOIL	LA-508-462	U	0.0511	pCi/g	1.00	0.064	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Zn-65 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0412	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	14681-63-1	Niobium-94	SOIL	LA-508-462	U	5.74e-03	pCi/g	1.00	0.024	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Nb-94 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0137	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	13968-53-1	Ruthenium-103	SOIL	LA-508-462	U	3.00e-03	pCi/g	1.00	0.021	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Ru-103 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0122	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	13967-48-1	Ruthenium-106	SOIL	LA-508-462	U	-0.0622	pCi/g	1.00	0.21	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Ru-106 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.129	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	13966-06-8	Tin-113	SOIL	LA-508-462	U	-4.84e-03	pCi/g	1.00	0.025	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Sn-113 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0148	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	14762-78-8	Cerium-144	SOIL	LA-508-462	U	0.0157	pCi/g	1.00	0.13	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Ce-144 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0801	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	14913-50-9	Thallium-208	SOIL	LA-508-462		0.135	pCi/g	1.00	0.021	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Tl-208 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0358	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	14913-49-6	Bismuth-212	SOIL	LA-508-462		0.328	pCi/g	1.00	0.19	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Bi-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.181	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	15092-94-1	Lead-212	SOIL	LA-508-462		0.510	pCi/g	1.00	0.032	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Pb-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0561	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	14733-03-0	Bismuth-214	SOIL	LA-508-462		0.344	pCi/g	1.00	0.047	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Bi-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0702	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	15067-28-4	Lead-214	SOIL	LA-508-462		0.402	pCi/g	1.00	0.041	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Pb-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0631	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	14331-83-0	Actinium-228	SOIL	LA-508-462		0.508	pCi/g	1.00	0.083	09/08/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

2 - 11

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000735	B16RY0 DUP 20030470	E,T,C	Ac-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.128	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	15065-10-8	Thorium-234	SOIL	LA-508-462		18.7	pCi/g	1.00	1.3	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Th-234 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 2.49	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	15117-96-1	Uranium-235	SOIL	LA-508-462		0.290	pCi/g	1.00	0.13	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	U-235 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.139	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	14596-10-2	Americium-241	SOIL	LA-508-462	U	0.0543	pCi/g	1.00	0.18	09/08/03	n/a	08/27/03
W030000735	B16RY0 DUP 20030470	E,T,C	Am-241 Rel Count Error (GEA)	SOIL	LA-508-462		+- 0.112	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	1.77e-03	pCi/g	1.00	0.010	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 5.65e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	14234-35-6	Antimony-125	SOIL	LA-508-462	U	4.39e-03	pCi/g	1.00	0.029	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0172	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0291	pCi/g	1.00	0.014	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0121	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	10045-97-3	Cesium-137	SOIL	LA-508-462		0.0721	pCi/g	1.00	0.011	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0175	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	14683-23-9	Europium-152	SOIL	LA-508-462	U	-0.0247	pCi/g	1.00	0.029	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0247	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	15585-10-1	Europium-154	SOIL	LA-508-462	U	-0.0165	pCi/g	1.00	0.030	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0182	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	14391-16-3	Europium-155	SOIL	LA-508-462	U	0.0366	pCi/g	1.00	0.048	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0289	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	15832-50-5	Tin-126	SOIL	LA-508-462	U	-9.33e-03	pCi/g	1.00	0.044	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Sn-126 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0329	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	15262-20-1	Radium-228	SOIL	LA-508-462		0.553	pCi/g	1.00	0.031	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Ra-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0940	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	13982-63-3	Radium-226	SOIL	LA-508-462		0.432	pCi/g	1.00	0.020	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Ra-226 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0717	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

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Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000736	B16RY1 DUP 20030470	13982-39-3	Zinc-65	SOIL	LA-508-462	U	8.97e-03	pCi/g	1.00	0.022	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Zn-65 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0151	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	14681-63-1	Niobium-94	SOIL	LA-508-462	U	3.61e-03	pCi/g	1.00	0.010	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Nb-94 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 5.96e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	13968-53-1	Ruthenium-103	SOIL	LA-508-462	U	6.42e-03	pCi/g	1.00	9.8e-03	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Ru-103 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 5.69e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	13967-48-1	Ruthenium-106	SOIL	LA-508-462	U	-9.24e-03	pCi/g	1.00	0.088	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Ru-106 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0508	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	13966-06-8	Tin-113	SOIL	LA-508-462	U	-4.20e-03	pCi/g	1.00	0.013	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Sn-113 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 7.94e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	14762-78-8	Cerium-144	SOIL	LA-508-462	U	-6.18e-03	pCi/g	1.00	0.088	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Ce-144 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0567	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	14913-50-9	Thallium-208	SOIL	LA-508-462		0.170	pCi/g	1.00	9.7e-03	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Tl-208 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0280	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	14913-49-6	Bismuth-212	SOIL	LA-508-462		0.366	pCi/g	1.00	0.076	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Bi-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0952	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	15092-94-1	Lead-212	SOIL	LA-508-462		0.582	pCi/g	1.00	0.021	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Pb-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0792	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	14733-03-0	Bismuth-214	SOIL	LA-508-462		0.432	pCi/g	1.00	0.020	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Bi-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0717	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	15067-28-4	Lead-214	SOIL	LA-508-462		0.497	pCi/g	1.00	0.022	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Pb-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0726	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	14331-83-0	Actinium-228	SOIL	LA-508-462		0.553	pCi/g	1.00	0.031	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Ac-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0940	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	15065-10-8	Thorium-234	SOIL	LA-508-462		6.20	pCi/g	1.00	0.67	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Th-234 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 1.10	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	15117-96-1	Uranium-235	SOIL	LA-508-462		0.112	pCi/g	1.00	0.091	09/10/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

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Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000736	B16RY1 DUP 20030470	E,T,C	U-235 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0750	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	14596-10-2	Americium-241	SOIL	LA-508-462	U	0.0471	pCi/g	1.00	0.085	09/10/03	n/a	08/27/03
W030000736	B16RY1 DUP 20030470	E,T,C	Am-241 Rel Count Error (GEA)	SOIL	LA-508-462		+- 0.0556	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	-8.02e-03	pCi/g	1.00	0.022	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0137	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	14234-35-6	Antimony-125	SOIL	LA-508-462	U	-0.0105	pCi/g	1.00	0.040	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0237	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0189	pCi/g	1.00	0.022	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0185	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	10045-97-3	Cesium-137	SOIL	LA-508-462		0.0242	pCi/g	1.00	0.018	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0132	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	14683-23-9	Europium-152	SOIL	LA-508-462	U	-0.0128	pCi/g	1.00	0.041	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0289	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	15585-10-1	Europium-154	SOIL	LA-508-462	U	5.00e-03	pCi/g	1.00	0.070	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0411	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	14391-16-3	Europium-155	SOIL	LA-508-462		0.0599	pCi/g	1.00	0.046	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0491	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	15832-50-5	Tin-126	SOIL	LA-508-462	U	0.0876	pCi/g	1.00	0.090	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Sn-126 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0316	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	15262-20-1	Radium-228	SOIL	LA-508-462		0.476	pCi/g	1.00	0.061	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Ra-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.105	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	13982-63-3	Radium-226	SOIL	LA-508-462		0.324	pCi/g	1.00	0.035	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Ra-226 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0648	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	13982-39-3	Zinc-65	SOIL	LA-508-462	U	0.0190	pCi/g	1.00	0.047	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Zn-65 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0310	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	14681-63-1	Niobium-94	SOIL	LA-508-462	U	1.37e-03	pCi/g	1.00	0.017	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Nb-94 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 9.63e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000737	B16RY2 DUP 20030470	13968-53-1	Ruthenium-103	SOIL	LA-508-462	U	-2.52e-03	pCi/g	1.00	0.015	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Ru-103 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 8.85e-03	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	13967-48-1	Ruthenium-106	SOIL	LA-508-462	U	-0.0329	pCi/g	1.00	0.15	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Ru-106 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0898	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	13966-06-8	Tin-113	SOIL	LA-508-462	U	-0.0181	pCi/g	1.00	0.018	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Sn-113 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0181	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	14762-78-8	Cerium-144	SOIL	LA-508-462	U	0.0171	pCi/g	1.00	0.086	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Ce-144 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0499	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	14913-50-9	Thallium-208	SOIL	LA-508-462		0.118	pCi/g	1.00	0.016	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Tl-208 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0253	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	14913-49-6	Bismuth-212	SOIL	LA-508-462		0.375	pCi/g	1.00	0.14	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Bi-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.136	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	15092-94-1	Lead-212	SOIL	LA-508-462		0.406	pCi/g	1.00	0.026	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Pb-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0479	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	14733-03-0	Bismuth-214	SOIL	LA-508-462		0.324	pCi/g	1.00	0.035	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Bi-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0648	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	15067-28-4	Lead-214	SOIL	LA-508-462		0.378	pCi/g	1.00	0.030	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Pb-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0563	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	14331-83-0	Actinium-228	SOIL	LA-508-462		0.476	pCi/g	1.00	0.061	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Ac-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.105	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	15065-10-8	Thorium-234	SOIL	LA-508-462		1.03	pCi/g	1.00	0.85	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Th-234 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.264	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	15117-96-1	Uranium-235	SOIL	LA-508-462		0.0624	pCi/g	1.00	0.092	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	U-235 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0229	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	14596-10-2	Americium-241	SOIL	LA-508-462	U	-0.0214	pCi/g	1.00	0.090	09/10/03	n/a	08/27/03
W030000737	B16RY2 DUP 20030470	E,T,C	Am-241 Rel Count Error (GEA)	SOIL	LA-508-462		+- 0.0552	pCi/g	1.00	0.0	09/10/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	-3.43e-03	pCi/g	1.00	0.010	09/08/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000738	B16RY3 DUP 20030492	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 6.17e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	14234-35-6	Antimony-125	SOIL	LA-508-462	U	3.28e-03	pCi/g	1.00	0.029	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0172	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0299	pCi/g	1.00	0.014	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 9.06e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	10045-97-3	Cesium-137	SOIL	LA-508-462	U	-8.82e-03	pCi/g	1.00	0.010	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 8.82e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	14683-23-9	Europium-152	SOIL	LA-508-462	U	-0.0101	pCi/g	1.00	0.031	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0190	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	15585-10-1	Europium-154	SOIL	LA-508-462	U	0.0158	pCi/g	1.00	0.035	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0216	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	14391-16-3	Europium-155	SOIL	LA-508-462	U	0.0404	pCi/g	1.00	0.047	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0280	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	15832-50-5	Tin-126	SOIL	LA-508-462	U	0.136	pCi/g	1.00	0.20	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Sn-126 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0348	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	15262-20-1	Radium-228	SOIL	LA-508-462		0.592	pCi/g	1.00	0.035	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Ra-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.104	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	13982-63-3	Radium-226	SOIL	LA-508-462		0.527	pCi/g	1.00	0.020	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Ra-226 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0848	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	13982-39-3	Zinc-65	SOIL	LA-508-462	U	-8.47e-03	pCi/g	1.00	0.024	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Zn-65 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0169	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	14681-63-1	Niobium-94	SOIL	LA-508-462	U	1.38e-03	pCi/g	1.00	9.8e-03	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Nb-94 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 5.82e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	13968-53-1	Ruthenium-103	SOIL	LA-508-462	U	-2.15e-03	pCi/g	1.00	9.8e-03	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Ru-103 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 6.00e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	13967-48-1	Ruthenium-106	SOIL	LA-508-462	U	0.0301	pCi/g	1.00	0.088	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Ru-106 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0497	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03

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DF=Dilution Factor

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

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000738	B16RY3 DUP 20030492	13966-06-8	Tin-113	SOIL	LA-508-462	U	-5.35e-03	pCi/g	1.00	0.013	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Sn-113 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 7.92e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	14762-78-8	Cerium-144	SOIL	LA-508-462	U	0.0286	pCi/g	1.00	0.087	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Ce-144 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0623	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	14913-50-9	Thallium-208	SOIL	LA-508-462		0.170	pCi/g	1.00	0.010	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Tl-208 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0291	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	14913-49-6	Bismuth-212	SOIL	LA-508-462		0.444	pCi/g	1.00	0.077	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Bi-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.110	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	15092-94-1	Lead-212	SOIL	LA-508-462		0.597	pCi/g	1.00	0.021	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Pb-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0812	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	14733-03-0	Bismuth-214	SOIL	LA-508-462		0.527	pCi/g	1.00	0.020	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Bi-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0848	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	15067-28-4	Lead-214	SOIL	LA-508-462		0.552	pCi/g	1.00	0.023	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Pb-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0767	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	14331-83-0	Actinium-228	SOIL	LA-508-462		0.592	pCi/g	1.00	0.035	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Ac-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.104	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	15065-10-8	Thorium-234	SOIL	LA-508-462	U	0.473	pCi/g	1.00	0.59	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Th-234 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.403	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	15117-96-1	Uranium-235	SOIL	LA-508-462	U	0.0573	pCi/g	1.00	0.089	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	U-235 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0172	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	14596-10-2	Americium-241	SOIL	LA-508-462	U	0.0387	pCi/g	1.00	0.071	09/08/03	n/a	08/27/03
W030000738	B16RY3 DUP 20030492	E,T,C	Am-241 Rel Count Error (GEA)	SOIL	LA-508-462		+- 0.0457	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	2.20e-03	pCi/g	1.00	8.6e-03	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 4.82e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	14234-35-6	Antimony-125	SOIL	LA-508-462	U	-1.74e-03	pCi/g	1.00	0.024	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0141	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0203	pCi/g	1.00	0.011	09/08/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

2 - 17

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000739	B16RY4 DUP 20030515	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0114	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	10045-97-3	Cesium-137	SOIL	LA-508-462	U	-4.06e-03	pCi/g	1.00	8.9e-03	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 5.32e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	14683-23-9	Europium-152	SOIL	LA-508-462	U	2.75e-04	pCi/g	1.00	0.027	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 2.75e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	15585-10-1	Europium-154	SOIL	LA-508-462	U	-2.28e-03	pCi/g	1.00	0.028	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0186	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	14391-16-3	Europium-155	SOIL	LA-508-462		0.0349	pCi/g	1.00	0.038	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0290	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	15832-50-5	Tin-126	SOIL	LA-508-462	U	0.117	pCi/g	1.00	0.20	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Sn-126 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0292	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	15262-20-1	Radium-228	SOIL	LA-508-462		0.483	pCi/g	1.00	0.028	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Ra-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0850	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	13982-63-3	Radium-226	SOIL	LA-508-462		0.427	pCi/g	1.00	0.017	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Ra-226 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0705	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	13982-39-3	Zinc-65	SOIL	LA-508-462	U	-3.91e-03	pCi/g	1.00	0.019	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Zn-65 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0133	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	14681-63-1	Niobium-94	SOIL	LA-508-462	U	2.00e-03	pCi/g	1.00	8.0e-03	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Nb-94 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 4.74e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	13968-53-1	Ruthenium-103	SOIL	LA-508-462	U	-1.10e-03	pCi/g	1.00	8.3e-03	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Ru-103 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 5.02e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	13967-48-1	Ruthenium-106	SOIL	LA-508-462	U	0.0185	pCi/g	1.00	0.075	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Ru-106 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0424	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	13966-06-8	Tin-113	SOIL	LA-508-462	U	-2.01e-04	pCi/g	1.00	0.011	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Sn-113 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 2.01e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	14762-78-8	Cerium-144	SOIL	LA-508-462	U	0.0546	pCi/g	1.00	0.074	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Ce-144 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0496	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

2-18

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000739	B16RY4 DUP 20030515	14913-50-9	Thallium-208	SOIL	LA-508-462		0.150	pCi/g	1.00	8.4e-03	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Tl-208 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0249	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	14913-49-6	Bismuth-212	SOIL	LA-508-462		0.385	pCi/g	1.00	0.062	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Bi-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0886	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	15092-94-1	Lead-212	SOIL	LA-508-462		0.511	pCi/g	1.00	0.018	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Pb-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0690	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	14733-03-0	Bismuth-214	SOIL	LA-508-462		0.427	pCi/g	1.00	0.017	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Bi-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0705	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	15067-28-4	Lead-214	SOIL	LA-508-462		0.447	pCi/g	1.00	0.019	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Pb-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0648	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	14331-83-0	Actinium-228	SOIL	LA-508-462		0.483	pCi/g	1.00	0.028	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Ac-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0850	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	15065-10-8	Thorium-234	SOIL	LA-508-462	U	0.344	pCi/g	1.00	0.46	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Th-234 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.329	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	15117-96-1	Uranium-235	SOIL	LA-508-462	U	0.0515	pCi/g	1.00	0.076	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	U-235 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0546	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	14596-10-2	Americium-241	SOIL	LA-508-462	U	0.0220	pCi/g	1.00	0.060	09/08/03	n/a	08/27/03
W030000739	B16RY4 DUP 20030515	E,T,C	Am-241 Rel Count Error (GEA)	SOIL	LA-508-462		+- 0.0370	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	1.64e-03	pCi/g	1.00	9.2e-03	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 5.25e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	14234-35-6	Antimony-125	SOIL	LA-508-462	U	8.60e-03	pCi/g	1.00	0.026	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0150	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0296	pCi/g	1.00	0.013	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0117	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	10045-97-3	Cesium-137	SOIL	LA-508-462	U	2.45e-03	pCi/g	1.00	9.8e-03	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 6.44e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	14683-23-9	Europium-152	SOIL	LA-508-462	U	-0.0202	pCi/g	1.00	0.027	09/08/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

2 - 19

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000740	B16RY5 DUP 20030524	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0202	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	15585-10-1	Europium-154	SOIL	LA-508-462	U	-0.0197	pCi/g	1.00	0.029	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0197	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	14391-16-3	Europium-155	SOIL	LA-508-462		0.0390	pCi/g	1.00	0.040	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0303	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	15832-50-5	Tin-126	SOIL	LA-508-462	U	0.132	pCi/g	1.00	0.20	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Sn-126 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0337	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	15262-20-1	Radium-228	SOIL	LA-508-462		0.535	pCi/g	1.00	0.030	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Ra-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0936	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	13982-63-3	Radium-226	SOIL	LA-508-462		0.481	pCi/g	1.00	0.018	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Ra-226 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0774	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	13982-39-3	Zinc-65	SOIL	LA-508-462	U	-0.0129	pCi/g	1.00	0.021	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Zn-65 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0156	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	14681-63-1	Niobium-94	SOIL	LA-508-462	U	1.15e-03	pCi/g	1.00	8.8e-03	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Nb-94 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 5.24e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	13968-53-1	Ruthenium-103	SOIL	LA-508-462	U	-5.63e-03	pCi/g	1.00	8.5e-03	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Ru-103 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 5.63e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	13967-48-1	Ruthenium-106	SOIL	LA-508-462	U	-0.0105	pCi/g	1.00	0.080	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Ru-106 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0467	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	13966-06-8	Tin-113	SOIL	LA-508-462	U	-6.55e-03	pCi/g	1.00	0.012	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Sn-113 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 7.20e-03	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	14762-78-8	Cerium-144	SOIL	LA-508-462	U	6.89e-03	pCi/g	1.00	0.078	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Ce-144 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0498	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	14913-50-9	Thallium-208	SOIL	LA-508-462		0.174	pCi/g	1.00	9.1e-03	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Tl-208 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0284	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	14913-49-6	Bismuth-212	SOIL	LA-508-462		0.342	pCi/g	1.00	0.068	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Bi-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0855	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

2 - 20

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000740	B16RY5 DUP 20030524	15092-94-1	Lead-212	SOIL	LA-508-462		0.575	pCi/g	1.00	0.019	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Pb-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0776	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	14733-03-0	Bismuth-214	SOIL	LA-508-462		0.481	pCi/g	1.00	0.018	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Bi-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0774	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	15067-28-4	Lead-214	SOIL	LA-508-462		0.542	pCi/g	1.00	0.020	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Pb-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0748	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	14331-83-0	Actinium-228	SOIL	LA-508-462		0.535	pCi/g	1.00	0.030	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Ac-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0936	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	15065-10-8	Thorium-234	SOIL	LA-508-462		0.598	pCi/g	1.00	0.54	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Th-234 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.409	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	15117-96-1	Uranium-235	SOIL	LA-508-462	U	0.0597	pCi/g	1.00	0.081	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	U-235 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0170	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	14596-10-2	Americium-241	SOIL	LA-508-462	U	4.11e-03	pCi/g	1.00	0.064	09/08/03	n/a	08/27/03
W030000740	B16RY5 DUP 20030524	E,T,C	Am-241 Rel Count Error (GEA)	SOIL	LA-508-462		+- 0.0411	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	10198-40-0	Cobalt-60	SOIL	LA-508-462	U	-1.78e-03	pCi/g	1.00	0.025	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0170	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	14234-35-6	Antimony-125	SOIL	LA-508-462	U	0.0169	pCi/g	1.00	0.057	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Sb-125 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0336	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	13967-70-9	Cesium-134	SOIL	LA-508-462	U	0.0203	pCi/g	1.00	0.027	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Cs-134 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0152	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	10045-97-3	Cesium-137	SOIL	LA-508-462		0.0332	pCi/g	1.00	0.022	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0332	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	14683-23-9	Europium-152	SOIL	LA-508-462	U	-2.19e-03	pCi/g	1.00	0.058	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0219	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	15585-10-1	Europium-154	SOIL	LA-508-462	U	-0.0151	pCi/g	1.00	0.073	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0438	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	14391-16-3	Europium-155	SOIL	LA-508-462	U	-0.0196	pCi/g	1.00	0.076	09/08/03	n/a	08/27/03

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

DF=Dilution Factor

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WSCF
ANALYTICAL RESULTS REPORT

2 - 21

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000741	B16VV9 DUP 20030524	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0527	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	15832-50-5	Tin-126	SOIL	LA-508-462	U	0.132	pCi/g	1.00	0.20	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Sn-126 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0492	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	15262-20-1	Radium-228	SOIL	LA-508-462		0.533	pCi/g	1.00	0.080	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Ra-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.140	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	13982-63-3	Radium-226	SOIL	LA-508-462		0.341	pCi/g	1.00	0.043	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Ra-226 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0696	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	13982-39-3	Zinc-65	SOIL	LA-508-462	U	0.0222	pCi/g	1.00	0.056	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Zn-65 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0373	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	14681-63-1	Niobium-94	SOIL	LA-508-462	U	2.46e-03	pCi/g	1.00	0.022	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Nb-94 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0128	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	13968-53-1	Ruthenium-103	SOIL	LA-508-462	U	-3.54e-03	pCi/g	1.00	0.020	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Ru-103 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0122	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	13967-48-1	Ruthenium-106	SOIL	LA-508-462	U	-0.0158	pCi/g	1.00	0.20	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Ru-106 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.117	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	13966-06-8	Tin-113	SOIL	LA-508-462	U	-9.69e-03	pCi/g	1.00	0.025	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Sn-113 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0151	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	14762-78-8	Cerium-144	SOIL	LA-508-462	U	-0.0677	pCi/g	1.00	0.14	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Ce-144 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0955	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	14913-50-9	Thallium-208	SOIL	LA-508-462		0.154	pCi/g	1.00	0.021	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Tl-208 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0306	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	14913-49-6	Bismuth-212	SOIL	LA-508-462		0.294	pCi/g	1.00	0.18	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Bi-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.157	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	15092-94-1	Lead-212	SOIL	LA-508-462		0.599	pCi/g	1.00	0.034	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Pb-212 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0659	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	14733-03-0	Bismuth-214	SOIL	LA-508-462		0.341	pCi/g	1.00	0.043	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Bi-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0696	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F03-006: 200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W030000741	B16VV9 DUP 20030524	15067-28-4	Lead-214	SOIL	LA-508-462		0.466	pCi/g	1.00	0.042	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Pb-214 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0722	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	14331-83-0	Actinium-228	SOIL	LA-508-462		0.533	pCi/g	1.00	0.080	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Ac-228 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.140	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	15065-10-8	Thorium-234	SOIL	LA-508-462	U	0.825	pCi/g	1.00	1.3	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Th-234 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.408	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	15117-96-1	Uranium-235	SOIL	LA-508-462	U	0.0641	pCi/g	1.00	0.15	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	U-235 Rel. Count Error (GEA)	SOIL	LA-508-462		+- 0.0279	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	14596-10-2	Americium-241	SOIL	LA-508-462	U	-0.113	pCi/g	1.00	0.16	09/08/03	n/a	08/27/03
W030000741	B16VV9 DUP 20030524	E,T,C	Am-241 Rel Count Error (GEA)	SOIL	LA-508-462		+- 0.113	pCi/g	1.00	0.0	09/08/03	n/a	08/27/03

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WSCF
ANALYTICAL COMMENT REPORT

2 - 23

000030

Attention: Steve Trent
Project Number F03-006

Group #: WSCF20031181

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Sample W030000741 for GEA test was not homogenous so RPD does not apply.

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample
VALTEST - Test Validation
LOGTEST - Login for Tests
TESTDATA - Test Data Entry

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w13qlog v1 16-sep-2003 12:43:54

W13q Worklist/Batch/QC Report for Group# WSCF20031181

WL#	S#	Batch	QC#	Tray Type	Sample#	Test
20211	1	20593	23539	BLANK		Gamma Energy Analysis-grd H2O
20211	2	20593	23539	LCS		Gamma Energy Analysis-grd H2O
20211	3	20593	23539	SAMPLE	W030000731	Gamma Energy Analysis-grd H2O
20211	4	20593	23539	SAMPLE	W030000732	Gamma Energy Analysis-grd H2O
20211	5	20593	23539	SAMPLE	W030000733	Gamma Energy Analysis-grd H2O
20211	6	20593	23539	SAMPLE	W030000734	Gamma Energy Analysis-grd H2O
20211	7	20593	23539	SAMPLE	W030000735	Gamma Energy Analysis-grd H2O
20211	8	20593	23539	SAMPLE	W030000736	Gamma Energy Analysis-grd H2O
20211	9	20593	23539	SAMPLE	W030000737	Gamma Energy Analysis-grd H2O
20211	10	20593	23539	SAMPLE	W030000738	Gamma Energy Analysis-grd H2O
20211	11	20593	23539	SAMPLE	W030000739	Gamma Energy Analysis-grd H2O
20211	12	20593	23539	SAMPLE	W030000740	Gamma Energy Analysis-grd H2O
20211	13	20593	23539	DUP	W030000741	Gamma Energy Analysis-grd H2O
20211	14	20593	23539	SAMPLE	W030000741	Gamma Energy Analysis-grd H2O

WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

2 - 25

Attention: Steve Trent
Project Number F03-006 :200-PW-2/PW-4

Group #: WSCF20031181

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W030000731	B16RX6 DUP 20030459	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g
W030000731	B16RX6 DUP 20030459	Gamma Energy Analysis-grd H2O	K-40 Count Error				8.6	%
W030000732	B16RX7 DUP 20030460	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g
W030000732	B16RX7 DUP 20030460	Gamma Energy Analysis-grd H2O	K-40 Count Error				8.4	%
W030000733	B16RX8 DUP 20030461	Gamma Energy Analysis-grd H2O	K-40				14	pCi/g
W030000733	B16RX8 DUP 20030461	Gamma Energy Analysis-grd H2O	K-40 Count Error				8.8	%
W030000734	B16RX9 DUP 20030461	Gamma Energy Analysis-grd H2O	K-40				11	pCi/g
W030000734	B16RX9 DUP 20030461	Gamma Energy Analysis-grd H2O	K-40 Count Error				9.2	%
W030000735	B16RY0 DUP 20030470	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g
W030000735	B16RY0 DUP 20030470	Gamma Energy Analysis-grd H2O	K-40 Count Error				10	%
W030000736	B16RY1 DUP 20030470	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g
W030000736	B16RY1 DUP 20030470	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W030000737	B16RY2 DUP 20030470	Gamma Energy Analysis-grd H2O	K-40				13	pCi/g
W030000737	B16RY2 DUP 20030470	Gamma Energy Analysis-grd H2O	K-40 Count Error				9.5	%
W030000738	B16RY3 DUP 20030492	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%
W030000738	B16RY3 DUP 20030492	Gamma Energy Analysis-grd H2O	K-40				17	pCi/g
W030000739	B16RY4 DUP 20030515	Gamma Energy Analysis-grd H2O	K-40				12	pCi/g
W030000739	B16RY4 DUP 20030515	Gamma Energy Analysis-grd H2O	K-40 Count Error				14	%
W030000740	B16RY5 DUP 20030524	Gamma Energy Analysis-grd H2O	K-40 Count Error				13	%
W030000740	B16RY5 DUP 20030524	Gamma Energy Analysis-grd H2O	K-40				15	pCi/g
W030000741	B16VV9 DUP 20030524	Gamma Energy Analysis-grd H2O	K-40				17	pCi/g
W030000741	B16VV9 DUP 20030524	Gamma Energy Analysis-grd H2O	K-40 Count Error				9.8	%

RQ=Result Qualifier

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WSCF
METHOD REFERENCES REPORT

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 or industry 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 the 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-508-462 Gamma Energy Analysis -- the Genie System -- WSCF

None No reference to any industry method.

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at http://apweb02/asponlinedocs/wscf/sample%20mgmt/ProcedureMethodCrossReference.pdf. This document includes on-line links to full-text versions of the procedures and methods, where available.

WSCF ANALYTICAL LABORATORY QC REPORT

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SDG Number: WSCF20031181
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

SAF Number: F03-006
Sample Date:
Receive Date:08/27/03

Lab ID: W030000741
BATCH QC ASSOCIATED WITH SAMPLE

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
DUP	Actinium-228	14331-83-0	5.96e-01	11.160	RPD	09/08/03	0.000	20.000	
DUP	Americium-241	14596-10-2	U-1.66e-1	n/a	RPD	09/08/03	0.000	20.000	
DUP	Bismuth-212	14913-49-6	3.95e-01	29.318	RPD	09/08/03	0.000	20.000	
DUP	Bismuth-214	14733-03-0	3.51e-01	2.890	RPD	09/08/03	0.000	20.000	
DUP	Cerium-144	14762-78-8	U2.07e-02	n/a	RPD	09/08/03	0.000	20.000	
DUP	Cobalt-60	10198-40-0	U4.28e-03	n/a	RPD	09/08/03	0.000	20.000	
DUP	Cesium-134	13967-70-9	U1.73e-02	n/a	RPD	09/08/03	0.000	20.000	
DUP	Cesium-137	10045-97-3	4.11e-02	21.265	RPD	09/08/03	0.000	20.000	
DUP	Europium-152	14683-23-9	U9.81e-03	n/a	RPD	09/08/03	0.000	20.000	
DUP	Europium-154	15585-10-1	U-1.56e-2	n/a	RPD	09/08/03	0.000	20.000	
DUP	Europium-155	14391-16-3	U-1.68e-2	n/a	RPD	09/08/03	0.000	20.000	
DUP	Niobium-94	14681-63-1	U2.23e-03	n/a	RPD	09/08/03	0.000	20.000	
DUP	Lead-212	15092-94-1	6.48e-01	7.859	RPD	09/08/03	0.000	20.000	
DUP	Lead-214	15067-28-4	4.34e-01	7.111	RPD	09/08/03	0.000	20.000	
DUP	Radium-226	13982-63-3	3.51e-01	2.890	RPD	09/08/03	0.000	20.000	
DUP	Radium-228	15262-20-1	5.96e-01	11.160	RPD	09/08/03	0.000	20.000	
DUP	Ruthenium-103	13968-53-1	U2.10e-03	n/a	RPD	09/08/03	0.000	20.000	
DUP	Ruthenium-106	13967-48-1	U-5.73e-2	n/a	RPD	09/08/03	0.000	20.000	
DUP	Antimony-125	14234-35-6	U-1.99e-2	n/a	RPD	09/08/03	0.000	20.000	
DUP	Tin-113	13966-06-8	U1.36e-02	n/a	RPD	09/08/03	0.000	20.000	
DUP	Tin-126	15832-50-5	U6.62e-02	n/a	RPD	09/08/03	0.000	20.000	
DUP	Thorium-234	15065-10-8	U9.45e-02	n/a	RPD	09/08/03	0.000	20.000	
DUP	Thallium-208	14913-50-9	1.64e-01	6.289	RPD	09/08/03	0.000	20.000	
DUP	Uranium-235	15117-96-1	U9.10e-02	n/a	RPD	09/08/03	0.000	20.000	
DUP	Zinc-65	13982-39-3	U1.81e-02	n/a	RPD	09/08/03	0.000	20.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20031181
Matrix: SOLID
Test: Gamma Energy Analysis-grd H2O

SAF Number: F03-006
Sample Date:
Receive Date:

BATCH QC

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Actinium-228	14331-83-0	4.48e-02	0.045	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Americium-241	14596-10-2	U-6.86e-2	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Bismuth-212	14913-49-6	U9.23e-03	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Bismuth-214	14733-03-0	1.07e-01	0.107	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Cerium-144	14762-78-8	U-3.17e-2	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Cobalt-60	10198-40-0	U2.58e-03	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Cesium-134	13967-70-9	U1.17e-03	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Cesium-137	10045-97-3	U-8.55e-3	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Europium-152	14683-23-9	U3.28e-03	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Europium-154	15585-10-1	U-2.86e-2	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Europium-155	14391-16-3	U7.27e-03	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Niobium-94	14681-63-1	U1.44e-03	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Lead-212	15092-94-1	U1.10e-02	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Lead-214	15067-28-4	9.20e-02	0.092	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Radium-226	13982-63-3	1.07e-01	0.107	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Radium-228	15262-20-1	4.48e-02	0.045	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Ruthenium-103	13968-53-1	U-5.20e-4	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Ruthenium-106	13967-48-1	U-1.97e-2	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Antimony-125	14234-35-6	U-9.06e-3	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Tin-113	13966-06-8	U-7.66e-3	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Tin-126	15832-50-5	U9.17e-04	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Thorium-234	15065-10-8	U1.42e-01	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Thallium-208	14913-50-9	U-4.37e-3	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Uranium-235	15117-96-1	U-1.68e-2	n/a	pCi/g	09/08/03	-10000.000	1000.000	
BLANK	Zinc-65	13982-39-3	U2.23e-03	n/a	pCi/g	09/08/03	-10000.000	1000.000	
LCS	Americium-241	14596-10-2	4.16e+03	106.122	% Recov	09/04/03	80.000	120.000	
LCS	Cobalt-60	10198-40-0	4.43e+03	105.728	% Recov	09/04/03	80.000	120.000	
LCS	Cesium-137	10045-97-3	3.88e+03	108.380	% Recov	09/04/03	80.000	120.000	

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T4180-03-SLF-036

ATTACHMENT 3

SAMPLE RECEIPT INFORMATION

Consisting of 2 pages
Cover page not included

Neely, Michael

From: Trent, Stephen J
Sent: Thursday, July 17, 2003 3:23 PM
To: Neely, Michael
Cc: Thomas, Greg S; Hulstrom, Larry C; Thackaberry, W R (Bill); Ayres, Doris E
Subject: Need GEA rerun
Importance: High

Mike,

In order to resolve the QC analysis concerns that we spoke about at the last lab status meeting, WSCF will need to rerun the GEA analysis on the following samples -

SAMP_NUM	SDG_NUM	METHOD_NAME
B16LD9-A	WSCF20030361	GAMMA_GS
B16RX6	WSCF20030459	GAMMA_GS
B16RX7	WSCF20030460	GAMMA_GS
B16RX8	WSCF20030461	GAMMA_GS
B16RX9	WSCF20030461	GAMMA_GS
B16RY0	WSCF20030470	GAMMA_GS
B16RY1	WSCF20030470	GAMMA_GS
B16RY2	WSCF20030470	GAMMA_GS
B16RY3	WSCF20030492	GAMMA_GS
B16RY4	WSCF20030515	GAMMA_GS
B16RY5	WSCF20030524	GAMMA_GS
B16VV9	WSCF20030524	GAMMA_GS
B16W93	WSCF20030588	GAMMA_GS
B16W94	WSCF20030588	GAMMA_GS
B16W95	WSCF20030588	GAMMA_GS
B16W96	WSCF20030598	GAMMA_GS
B16W97	WSCF20030598	GAMMA_GS
B16W98	WSCF20030598	GAMMA_GS
B16W99	WSCF20030613	GAMMA_GS
B16WB0	WSCF20030613	GAMMA_GS
B16WB1	WSCF20030630	GAMMA_GS
B16WB2	WSCF20030642	GAMMA_GS
B16WC0	WSCF20030567	GAMMA_GS
B171B9	WSCF20030757	GAMMA_GS
B171C0	WSCF20030757	GAMMA_GS
B171C1	WSCF20030757	GAMMA_GS
B17216	WSCF20030757	GAMMA_GS
B17217	WSCF20030757	GAMMA_GS
B17218	WSCF20030757	GAMMA_GS

0000037

Batch QC is to include a laboratory blank, a laboratory control standard, and a lab duplicate (or replicate). If it is more efficient, the lab may run these samples in large batches (not to exceed 20 samples, however). The laboratory may re-report the results and associated QC as either an addendum to the existing data package reports (including only those GEA results and QC that are specific to that particular data package) or regenerate the entire data package report with the new GEA results (and QC) replacing the old results. In either case, a case narrative will need to be provided explaining the new GEA results. In addition the transmittal letter for each addendum or revised data package will need to indicate that the new data deliverable is an addendum to, or a replacement of an existing data package.

Please let me know the schedule for completing these reruns.

Thanks,

Steve Trent
Sample Management Project Coordinator
Fluor Hanford - Central Plateau Project
Ph: (509) 373-5869
Cell: (509) 528-1172
EFax: (866) 252-5816
Site Pager: 85-7344