SC&A S. COHEN & ASSOCIATES
AN EMPLOYEE-OWNED COMPANY

December 10, 2007

Greg Miller
Cabrera Services, Inc.
5301 Montano Plaza Drive NW
Albuquerque, NM 87120

Dear Mr. Miller;

On September 27, 2007, 66 soil samples were received for analysis at the Sanford Cohen and Associates (SC&A) Southeastern Environmental Laboratory. The samples were assigned Laboratory Report Identification Code 7933_7938. Enclosed is the Sample Data Package.

If you have any questions please do not hesitate to call.

Sincerely,

Cynthia White
Laboratory Director

cc: Tony Mason, Cabrera Services

1000 MONTICELLO COURT • MONTGOMERY, ALABAMA • 36117 • 334.272.2234 • FAX 334.213.0407

COVER PAGE

Sanford Cohen & Associates
Southeastern Environmental Laboratory
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC070001 (AL001)

Laboratory Report Identification Code: 7933_7938

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2191-ST	OH207-7933-01
SB-CZ-SS-2192-ST	OH207-7933-02
SB-CZ-SS-2193-ST	OH207-7933-03
SB-CZ-SS-2194-ST	OH207-7933-04
SB-CZ-SS-2195-ST	OH207-7933-05
SB-CZ-SS-2196-ST	OH207-7933-06
SB-CZ-SS-2197-ST	OH207-7933-07
SB-CZ-SS-2198-ST	OH207-7933-08
SB-CZ-SS-2199-ST	OH207-7933-09
SB-CZ-SS-2200-ST	OH207-7933-10
SB-CZ-SS-2201-ST	OH207-7933-11
SB-CZ-SS-2202-ST	OH207-7933-12
SB-CZ-SS-2203-ST	OH207-7933-13
SB-CZ-SS-2204-ST	OH207-7933-14
Preparation Blank (PB)	SCAQC-7933-PB1
Laboratory Control (LC)	SCAQC-7933-LC1
Laboratory Duplicate (LD)	SCAQC-7933-LD1

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Sanford Cohen & Associates
Southeastern Environmental Laboratory
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC070001 (AL001)

Laboratory Report Identification Code: 7933_7938

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2191-SD	OH207-7934-01
SB-CZ-SS-2192-SD	OH207-7934-02
SB-CZ-SS-2193-SD	OH207-7934-03
SB-CZ-SS-2194-SD	OH207-7934-04
SB-CZ-SS-2195-SD	OH207-7934-05
SB-CZ-SS-2196-SD	OH207-7934-06
SB-CZ-SS-2197-SD	OH207-7934-07
SB-CZ-SS-2198-SD	OH207-7934-08
SB-CZ-SS-2199-SD	OH207-7934-09
SB-CZ-SS-2200-SD	OH207-7934-10
SB-CZ-SS-2201-SD	OH207-7934-11
SB-CZ-SS-2202-SD	OH207-7934-12
SB-CZ-SS-2203-SD	OH207-7934-13
SB-CZ-SS-2204-SD	OH207-7934-14
Preparation Blank (PB)	SCAQC-7934-PB1
Laboratory Control (LC)	SCAQC-7934-LC1
Laboratory Duplicate (LD)	SCAQC-7934-LD1

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2205-ST	OH207-7935-01
SB-CZ-SS-2206-ST	OH207-7935-02
SB-CZ-SS-2207-ST	OH207-7935-03
SB-CZ-SS-2208-ST	OH207-7935-04
SB-CZ-SS-2209-ST	OH207-7935-05
Preparation Blank (PB)	SCAQC-7935-PB1
Laboratory Control (LC)	SCAQC-7935-LC1
Laboratory Duplicate (LD)	SCAQC-7935-LD1

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Sanford Cohen & Associates
Southeastern Environmental Laboratory
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC070001 (AL001)

Laboratory Report Identification Code: 7933_7938

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2205-SD	OH207-7936-01
SB-CZ-SS-2206-SD	OH207-7936-02
SB-CZ-SS-2207-SD	OH207-7936-03
SB-CZ-SS-2208-SD	OH207-7936-04
SB-CZ-SS-2209-SD	OH207-7936-05
Preparation Blank (PB)	SCAQC-7936-PB1
Laboratory Control (LC)	SCAQC-7936-LC1
Laboratory Duplicate (LD)	SCAQC-7936-LD1

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2210-ST	OH207-7937-01
SB-CZ-SS-2211-ST	OH207-7937-02
SB-CZ-SS-2212-ST	OH207-7937-03
SB-CZ-SS-2213-ST	OH207-7937-04
SB-CZ-SS-2214-ST	OH207-7937-05
SB-CZ-SS-2215-ST	OH207-7937-06
SB-CZ-SS-2216-ST	OH207-7937-07
SB-CZ-SS-2217-ST	OH207-7937-08
SB-CZ-SS-2218-ST	OH207-7937-09
SB-CZ-SS-2219-ST	OH207-7937-10
SB-CZ-SS-2220-ST	OH207-7937-11
SB-CZ-SS-2221-ST	OH207-7937-12
SB-CZ-SS-2222-ST	OH207-7937-13
SB-CZ-SS-2223-ST	OH207-7937-14
Preparation Blank (PB)	SCAQC-7937-PB1
Laboratory Control (LC)	SCAQC-7937-LC1
Laboratory Duplicate (LD)	SCAQC-7937-LD1

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Sanford Cohen & Associates
Southeastern Environmental Laboratory
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC070001 (AL001)

Laboratory Report Identification Code: 7933_7938

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2210-SD	OH207-7938-01
SB-CZ-SS-2211-SD	OH207-7938-02
SB-CZ-SS-2212-SD	OH207-7938-03
SB-CZ-SS-2213-SD	OH207-7938-04
SB-CZ-SS-2214-SD	OH207-7938-05
SB-CZ-SS-2215-SD	OH207-7938-06
SB-CZ-SS-2216-SD	OH207-7938-07
SB-CZ-SS-2217-SD	OH207-7938-08
SB-CZ-SS-2218-SD	OH207-7938-09
SB-CZ-SS-2219-SD	OH207-7938-10
SB-CZ-SS-2220-SD	OH207-7938-11
SB-CZ-SS-2221-SD	OH207-7938-12
SB-CZ-SS-2222-SD	OH207-7938-13
SB-CZ-SS-2223-SD	OH207-7938-14
Preparation Blank (PB)	SCAQC-7938-PB1
Laboratory Control (LC)	SCAQC-7938-LC1
Laboratory Duplicate (LD)	SCAQC-7938-LD1

Comments: There were no problems encountered during sample receiving.

"I certify that this sample data package is in compliance with contract requirements, both technically and for completeness. Release of the data contained in this hard-copy sample data package has been authorized by the Laboratory Director or the Laboratory Director designee, as verified by the following signature."

Cynthia White
Signature

Cynthia White	Laboratory Director	12/10/2007
Name	Title	Date

USEPA - CLP

COVER PAGE

Lab Name: GPL LABORATORIES, LLLP Contract:

Lab Code: Case No.: NRAS No.: SDG No.: 710114

SOW No.: SW846

EPA Sample No.	Lab Sample ID
SB-CZ-SS-2191-SD	S 710114-043-043-1/1
SB-CZ-SS-2191-ST	S 710114-029-029-1/1
SB-CZ-SS-2192-SD	S 710114-044-044-1/1
SB-CZ-SS-2192-ST	S 710114-030-030-1/1
SB-CZ-SS-2193-SD	S 710114-045-045-1/1
SB-CZ-SS-2193-ST	S 710114-031-031-1/1
SB-CZ-SS-2194-SD	S 710114-046-046-1/1
SB-CZ-SS-2194-ST	S 710114-032-032-1/1
SB-CZ-SS-2195-SD	S 710114-047-047-1/1
SB-CZ-SS-2195-ST	S 710114-033-033-1/1
SB-CZ-SS-2196-SD	S 710114-048-048-1/1
SB-CZ-SS-2196-ST	S 710114-034-034-1/1
SB-CZ-SS-2197-SD	S 710114-049-049-1/1
SB-CZ-SS-2197-ST	S 710114-035-035-1/1
SB-CZ-SS-2198-SD	S 710114-050-050-1/1
SB-CZ-SS-2198-ST	S 710114-036-036-1/1
SB-CZ-SS-2199-SD	S 710114-051-051-1/1
SB-CZ-SS-2199-ST	S 710114-037-037-1/1
SB-CZ-SS-2200-SD	S 710114-052-052-1/1
SB-CZ-SS-2200-ST	S 710114-038-038-1/1
SB-CZ-SS-2201-SD	S 710114-053-053-1/1
SB-CZ-SS-2201-ST	S 710114-039-039-1/1
SB-CZ-SS-2202-SD	S 710114-054-054-1/1
SB-CZ-SS-2202-ST	S 710114-040-040-1/1
SB-CZ-SS-2202-ST MS	SP710114-040-040-1/1
SB-CZ-SS-2202-ST MSD	SD710114-040-040-1/1
SB-CZ-SS-2203-SD	S 710114-055-055-1/1
SB-CZ-SS-2203-ST	S 710114-041-041-1/1
SB-CZ-SS-2204-SD	S 710114-056-056-1/1
SB-CZ-SS-2204-ST	S 710114-042-042-1/1
SB-CZ-SS-2205-SD	S 710114-062-062-1/1
SB-CZ-SS-2205-ST	S 710114-057-057-1/1
SB-CZ-SS-2206-SD	S 710114-063-063-1/1
SB-CZ-SS-2206-ST	S 710114-058-058-1/1
SB-CZ-SS-2207-SD	S 710114-064-064-1/1

EPA Sample No.	Lab Sample ID
SB-CZ-SS-2207-ST	S 710114-059-059-1/1
SB-CZ-SS-2208-SD	S 710114-065-065-1/1
SB-CZ-SS-2208-ST	S 710114-060-060-1/1
SB-CZ-SS-2208-ST MS	SP710114-060-060-1/1
SB-CZ-SS-2208-ST MSD	SD710114-060-060-1/1
SB-CZ-SS-2209-SD	S 710114-066-066-1/1
SB-CZ-SS-2209-ST	S 710114-061-061-1/1
SB-CZ-SS-2210-SD	S 710114-015-015-1/1
SB-CZ-SS-2210-ST	S 710114-001-001-1/1
SB-CZ-SS-2210-ST MS	SP710114-001-001-1/1
SB-CZ-SS-2210-ST MSD	SD710114-001-001-1/1
SB-CZ-SS-2211-SD	S 710114-016-016-1/1
SB-CZ-SS-2211-ST	S 710114-002-002-1/1
SB-CZ-SS-2212-SD	S 710114-017-017-1/1
SB-CZ-SS-2212-ST	S 710114-003-003-1/1
SB-CZ-SS-2213-SD	S 710114-018-018-1/1
SB-CZ-SS-2213-ST	S 710114-004-004-1/1
SB-CZ-SS-2214-SD	S 710114-019-019-1/1
SB-CZ-SS-2214-ST	S 710114-005-005-1/1
SB-CZ-SS-2215-SD	S 710114-020-020-1/1
SB-CZ-SS-2215-SD MS	SP710114-020-020-1/1
SB-CZ-SS-2215-SD MSD	SD710114-020-020-1/1
SB-CZ-SS-2215-ST	S 710114-006-006-1/1
SB-CZ-SS-2216-SD	S 710114-021-021-1/1
SB-CZ-SS-2216-ST	S 710114-007-007-1/1
SB-CZ-SS-2217-SD	S 710114-022-022-1/1
SB-CZ-SS-2217-ST	S 710114-008-008-1/1
SB-CZ-SS-2218-SD	S 710114-023-023-1/1
SB-CZ-SS-2218-ST	S 710114-009-009-1/1
SB-CZ-SS-2219-SD	S 710114-024-024-1/1
SB-CZ-SS-2219-ST	S 710114-010-010-1/1
SB-CZ-SS-2220-SD	S 710114-025-025-1/1
SB-CZ-SS-2220-ST	S 710114-011-011-1/1
SB-CZ-SS-2221-SD	S 710114-026-026-1/1
SB-CZ-SS-2221-ST	S 710114-012-012-1/1
SB-CZ-SS-2222-SD	S 710114-027-027-1/1
SB-CZ-SS-2222-ST	S 710114-013-013-1/1
SB-CZ-SS-2223-SD	S 710114-028-028-1/1
SB-CZ-SS-2223-ST	S 710114-014-014-1/1

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	YES
Were ICP-AES and ICP-MS background	(Yes/No)	YES	YES

EPA Sample No.	Lab Sample ID

corrections applied?			
if yes, were raw data generated before application of background corrections?	(Yes/No)	NO	YES

Comments:

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as referred by the following signature.

Signature:		Name:	Richard Turner
Date:	10/25/2007	Title:	Production Manager

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SC & A 1000 MONTICELLO COURT
CHAIN OF CUSTODY RECORD MONTGOMERY, AL 36117 (334) 272-2234 (334)213-0407 FAX

WORK ASIGNMENT #	PROJECT NAME:	ANALYSIS REQUESTED	FOR LABORATORY USE
07-3080.04	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 27

Laboratory Prefix

Study I.D.

Pg_____ of_____

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec. & Lead					6420M	7933	Laboratory	Comments
1	9/26/2007		Soil	SB-CZ-SS-2191-ST	1		X						01		
2	9/26/2007		Soil	SB-CZ-SS-2192-ST	1		X						02		
3	9/26/2007		Soil	SB-CZ-SS-2193-ST	1		X						03		
4	9/26/2007		Soil	SB-CZ-SS-2194-ST	1		X						04		
5	9/26/2007		Soil	SB-CZ-SS-2195-ST	1		X						05		
6	9/26/2007		Soil	SB-CZ-SS-2196-ST	1		X						06		
7	9/26/2007		Soil	SB-CZ-SS-2197-ST	1		X						07		
8	9/26/2007		Soil	SB-CZ-SS-2198-ST	1		X						08		
9	9/26/2007		Soil	SB-CZ-SS-2199-ST	1		X						09		
10	9/26/2007		Soil	SB-CZ-SS-2200-ST	1		X						10		
11	9/26/2007		Soil	SB-CZ-SS-2201-ST	1		X						11		
12	9/26/2007		Soil	SB-CZ-SS-2202-ST	1		X						12		
13	9/26/2007		Soil	SB-CZ-SS-2203-ST	1		X						13		
14	9/26/2007		Soil	SB-CZ-SS-2204-ST	1		X						14		

Sampled by and Title Alfred Craig FSP	Date/Time 9-26-07	Relinquished by: Alfred Craig FSP	Date/Time	QC Level 1 2 3
Received by: C Vines SC&A	Date/Time 9/27/07 8:45	Relinquished by:	Date/Time	COC / ICE
Received by:	Date/Time	Relinquished by:	Date/Time	ANA / TEMP
Remarks:		Sample shipped via UPS FED-EX HAND OTHER	Air Bill #	Cust / pH
				Sample

SC & A 1000 MONTICELLO COURT
CHAIN OF CUSTODY RECORD MONTGOMERY, AL 36117 (334) 272-2234 (334)213-0407 FAX

WORK ASIGNMENT #	PROJECT NAME:	ANALYSIS REQUESTED	FOR LABORATORY USE
07-3080.04	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 27

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead						M934	Laboratory	Comments
1	9/26/2007		Soil	SB-CZ-SS-2191-SD	1		X						01		
2	9/26/2007		Soil	SB-CZ-SS-2192-SD	1		X						02		
3	9/26/2007		Soil	SB-CZ-SS-2193-SD	1		X						03		
4	9/26/2007		Soil	SB-CZ-SS-2194-SD	1		X						04		
5	9/26/2007		Soil	SB-CZ-SS-2195-SD	1		X						05		
6	9/26/2007		Soil	SB-CZ-SS-2196-SD	1		X						06		
7	9/26/2007		Soil	SB-CZ-SS-2197-SD	1		X						07		
8	9/26/2007		Soil	SB-CZ-SS-2198-SD	1		X						08		
9	9/26/2007		Soil	SB-CZ-SS-2199-SD	1		X						09		
10	9/26/2007		Soil	SB-CZ-SS-2200-SD	1		X						10		
11	9/26/2007		Soil	SB-CZ-SS-2201-SD	1		X						11		
12	9/26/2007		Soil	SB-CZ-SS-2202-SD	1		X						12		
13	9/26/2007		Soil	SB-CZ-SS-2203-SD	1		X						13		
14	9/26/2007		Soil	SB-CZ-SS-2204-SD	1		X						14		

Study I.D.

Pg_____ of_____

Sampled by and Title Alfred Craig FSP	Date/Time 9-26-07	Relinquished by: Alfred Craig FSP	Date/Time	OC Level 1 2 3	
Received by: C. Quarles E.T.	Date/Time 9/27/07 8:45	Relinquished by:	Date/Time	COC	ICE
Received by:	Date/Time	Relinquished by:	Date/Time	ANA	TEMP
Remarks:		Sample shipped via UPS FED-EX HAND OTHER	Air Bill #	Cust Sample	pH

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CHAIN OF CUSTODY RECORD MONTGOMERY, AL 36117 (334) 272-2234 (334)213-0407 FAX

WORK ASIGNMENT #	PROJECT NAME:	ANALYSIS REQUESTED	FOR LABORATORY USE
07-3080.04	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 27

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead					04287	7935	Laboratory	Comments
1	9/26/2007		Soil	SB-CZ-SS-2205-ST	1		X						01		
2	9/26/2007		Soil	SB-CZ-SS-2206-ST	1		X						02		
3	9/26/2007		Soil	SB-CZ-SS-2207-ST	1		X						03		
4	9/26/2007		Soil	SB-CZ-SS-2208-ST	1		X						04		
5	9/26/2007		Soil	SB-CZ-SS-2209-ST	1		X						05		
6	9/26/2007		Soil	SB-CZ-SS-2205-SD	1		X					04287	7936 01		
7	9/26/2007		Soil	SB-CZ-SS-2206-SD	1		X						02		
8	9/26/2007		Soil	SB-CZ-SS-2207-SD	1		X						03		
9	9/26/2007		Soil	SB-CZ-SS-2208-SD	1		X						04		
10	9/26/2007		Soil	SB-CZ-SS-2209-SD	1		X						05		
11															
12															
13															
14															

Study I.D.

Pg_____ of_____

Sampled by and Title Alfred Craig FSP	Date/Time 9-26-07	Relinquished by: Alfred Craig FSP	Date/Time
Received by: C. Wiesel - SC&A	Date/Time 9/27/07 845	Relinquished by:	Date/Time
Received by:	Date/Time	Relinquished by:	Date/Time
Remarks:		Sample shipped via UPS FED-EX HAND OTHER	Air Bill #

QC Level 1 2 3

COC	ICE
ANA	TEMP
Cust	pH
Sample	

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CHAIN OF CUSTODY RECORD MONTGOMERY, AL 36117 (334) 272-2234 (334)213-0407 FAX

WORK ASIGNMENT #	PROJECT NAME:	ANALYSIS REQUESTED	FOR LABORATORY USE
07-3080.04	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 28

Laboratory Prefix

Study I.D.

Pg_____ of_____

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead					04201	7937	Laboratory	Comments
1	9/26/2007		Soil	SB-CZ-SS-2210-ST	1		X						01		
2	9/26/2007		Soil	SB-CZ-SS-2211-ST	1		X						02		
3	9/26/2007		Soil	SB-CZ-SS-2212-ST	1		X						03		
4	9/26/2007		Soil	SB-CZ-SS-2213-ST	1		X						04		
5	9/26/2007		Soil	SB-CZ-SS-2214-ST	1		X						05		
6	9/26/2007		Soil	SB-CZ-SS-2215-ST	1		X						06		
7	9/26/2007		Soil	SB-CZ-SS-2216-ST	1		X						07		
8	9/26/2007		Soil	SB-CZ-SS-2217-ST	1		X						08		
9	9/26/2007		Soil	SB-CZ-SS-2218-ST	1		X						09		
10	9/26/2007		Soil	SB-CZ-SS-2219-ST	1		X						10		
11	9/26/2007		Soil	SB-CZ-SS-2220-ST	1		X						11		
12	9/26/2007		Soil	SB-CZ-SS-2221-ST	1		X						12		
13	9/26/2007		Soil	SB-CZ-SS-2222-ST	1		X						13		
14	9/26/2007		Soil	SB-CZ-SS-2223-ST	1		X						14		

Sampled by and Title Alfred Craig FSP	Date/Time 9-26-07	Relinquished by: Alfred Craig FSP	Date/Time	OC Level 1 2 3	
Received by: C. Quinn SCA	Date/Time 9/27/07 845	Relinquished by:	Date/Time	COC	ICE
Received by:	Date/Time	Relinquished by:	Date/Time	ANA	TEMP
Remarks:		Sample shipped via UPS FED-EX HAND OTHER	Air Bill #	Cust Sample	pH

SC & A 1000 MONTICELLO COURT
CHAIN OF CUSTODY RECORD MONTGOMERY, AL 36117 (334) 272-2234 (334)213-0407 FAX

WORK ASIGNMENT #	PROJECT NAME:	ANALYSIS REQUESTED	FOR LABORATORY USE
07-3080.04	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 28

Laboratory Prefix

Study I.D.

Pg_____ of_____

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		& Lead					01267	7938	Laboratory	Comments
1	9/26/2007		Soil	SB-CZ-SS-2210-SD	1		X						01		
2	9/26/2007		Soil	SB-CZ-SS-2211-SD	1		X						02		
3	9/26/2007		Soil	SB-CZ-SS-2212-SD	1		X						03		
4	9/26/2007		Soil	SB-CZ-SS-2213-SD	1		X						04		
5	9/26/2007		Soil	SB-CZ-SS-2214-SD	1		X						05		
6	9/26/2007		Soil	SB-CZ-SS-2215-SD	1		X						06		
7	9/26/2007		Soil	SB-CZ-SS-2216-SD	1		X						07		
8	9/26/2007		Soil	SB-CZ-SS-2217-SD	1		X						08		
9	9/26/2007		Soil	SB-CZ-SS-2218-SD	1		X						09		
10	9/26/2007		Soil	SB-CZ-SS-2219-SD	1		X						10		
11	9/26/2007		Soil	SB-CZ-SS-2220-SD	1		X						11		
12	9/26/2007		Soil	SB-CZ-SS-2221-SD	1		X						12		
13	9/26/2007		Soil	SB-CZ-SS-2222-SD	1		X						13		
14	9/26/2007		Soil	SB-CZ-SS-2223-SD	1		X						14		

Sampled by and Title Alfred Craig FSP	Date/Time 9-26-07	Relinquished by: Alfred Craig FSP	Date/Time	QC Level 1 2 3	
Received by: C. Wynn - SC&A	Date/Time 9/27/07 8:45	Relinquished by:	Date/Time	COC	ICE
Received by:	Date/Time	Relinquished by:	Date/Time	ANA	TEMP
Remarks:		Sample shipped via UPS FED-EX HAND OTHER	Air Bill #	Cust Sample	pH

7921 7924 7927 7930 7933 7936
7922 7925 7928 7931 7934 7937
7923 7926 7929 7932 7935 7938 7939 - Soil

SAMPLE RECEIPT CHECKLIST

Receipt Date/Time: 9/27/07 8:45 # of Boxes in Shipment: 5

Client: 04207

Visible Inspection:

8592 3952 0016
8592 3952 0049
8592 3952 0050
8592 3952 0060

Container Intact: ☑Yes ☐No
Any Leakage: ☑Yes ☐No
Airbill Present: ☑Yes ☐No #: 8592 3952
Tamper Proof Custody Seals: ☑Yes ☐No Intact: ☑Yes ☐No
Custody Seal No.'s: 8592 3952

External Survey: Gamma ☑ Contamination: ☐Yes ☑No
Alpha ☑ Contamination: ☐Yes ☑No
Beta/Gamma ☑ Contamination: ☐ Yes ☑No

External Smear: ☐Yes ☑No Contamination: ☐Yes ☑No

Internal Survey: Gamma ☑ Contamination: ☐Yes ☑No
Alpha ☑ Contamination: ☐Yes ☑No
Beta/Gamma ☑ Contamination: ☐ Yes ☑No

Internal Smear: ☐Yes ☑No Contamination: ☐Yes ☑No

If Contamination, Date/Time RSO contacted: _____

Chain-of-Custody: ☑Yes ☐No Packing List: ☐Yes ☑No

Tamper Proof Custody Seals: ☐Yes ☐No Intact: ☐Yes ☑No

Custody Seal No.'s: _____

Water Samples Received Filtered: ☐Yes ☐No ☑N/A ☐ Not Specified

Water Samples Received Preserved: ☐Yes ☐No ☑N/A
Water Samples Preserved in Laboratory: ☐Yes ☐No ☑N/A Date: _____ Time: _____

Is the Chain-of-Custody in Agreement with the Samples Received? ☐Yes ☑No

If any discrepancies, Date/Time Client Contacted: Sample container didn't have collection date and time, Ziploc

Assigned SC&A Sample Numbers: ☑ Prepared Bench Sheets: ☑

Recorded Lab Sample No.'s on COC: ☑ Sample Acknowledgment: ☐

Signature: C Owens

SC&A - Southeastern Environmental Laboratory
SCA-Form 301-2 Rev. 1

CASE NARRATIVE

Laboratory Report Identification Number: 7933_7938

NELAC Certification ID: NLC070001 (AL001)

December 10, 2007

I. Introduction

On September 27, 2007, 66 soil samples were received for analysis at the Sanford Cohen and Associates (SC&A) Southeastern Environmental Laboratory located in Montgomery, Alabama. The samples were analyzed in accordance with the Sanford Cohen and Associates, Southeastern Environmental Laboratory, Laboratory Quality Assurance Plan.

II. Analytical Methodology

The radioanalytical results reported for the samples include the site and laboratory sample identification numbers, collection date, method of analysis, and the quality control samples that were analyzed concurrently. The samples were analyzed by the following method.

Radionuclide	Method Number	Method Name	Counting Method
Gamma Spec	DOE 4.5.2.3	Gamma Emitting Radionuclides	Gamma Spectrometry
Lead*	SW846 6010C	Elemental Lead	ICP-AES

*Analyzed by GPL Laboratories in Frederick, MD.

III. Analytical Results

Discussion

These samples were received at SC&A under USDA Soil Permit No. S-76792 and dried and handled in accordance with this permit. After drying and homogenizing each sample, approximately 10 grams were removed, packaged, and shipped to GPL Laboratories in Frederick, MD under their USDA Soil Permit No. S-73685.

Approximately 400 grams-dry was prepared in SC&A's *400 mL sand* gamma geometry and counted for three hours in order to meet the RDL of 0.5 pCi/g for Th-234.

III. Analytical Results (continued)

Deficiencies

There were no deficiencies to report.

Matrix Interferences

There were no indications of matrix interference.

Detection Limits

The required detection limit (RDL) of 0.5 grams-dry for Th-234 was met for all samples except SB-CZ-SS-2193-ST, SB-CZ-SS-2201-SD, and SB-CZ-SS-2218-SD, and the RDL of 2 ppm for the lead analysis performed by GPL Laboratories was also met for all samples.

Re-analysis

There were no re-analyses.

Deviations from Protocols

There were no deviations from the written protocols and analytical methods.

Contact with the Technical Representative

There was no contact with the Technical Representative regarding these samples.

IV. Quality Control

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7933-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7933-LC1	Laboratory Control
SB-CS-SS-2191-ST	SCAQC-7933-LD1	Laboratory Duplicate

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7934-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7934-LC1	Laboratory Control
SB-CZ-SS-2191-SD	SCAQC-7934-LD1	Laboratory Duplicate

IV. **Quality Control** (continued)

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7935-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7935-LC1	Laboratory Control
SB-CZ-SS-2205-ST	SCAQC-7935-LD1	Laboratory Duplicate

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7936-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7936-LC1	Laboratory Control
SB-CZ-SS-2205-SD	SCAQC-7936-LD1	Laboratory Duplicate

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7937-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7937-LC1	Laboratory Control
SB-CZ-SS-2210-ST	SCAQC-7937-LD1	Laboratory Duplicate

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7938-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7938-LC1	Laboratory Control
SB-CZ-SS-2210-SD	SCAQC-7938-LD1	Laboratory Duplicate

GPL QC Information - *Lead*

Site Sample Number	Laboratory Sample Number	Quality Control Type
NA	BLK100908	Preparation Blank
NA	BKS100908	Laboratory Control
SB-CZ-SS-2210-ST	SP710114-001-001-1/1	MS/MSD

GPL QC Information - *Lead*

Site Sample Number	Laboratory Sample Number	Quality Control Type
NA	BLK100964	Preparation Blank
NA	BKS100964	Laboratory Control
SB-CZ-SS-2215-SD	SP710114-020-020-1/1	MS/MSD

IV. **Quality Control** (continued)

GPL QC Information - *Lead*

Site Sample Number	Laboratory Sample Number	Quality Control Type
NA	BLK100991	Preparation Blank
NA	BKS100991	Laboratory Control
SB-CZ-SS-2202-ST	SP710114-040-040-1/1	MS/MSD

GPL QC Information - *Lead*

Site Sample Number	Laboratory Sample Number	Quality Control Type
NA	BLK100994	Preparation Blank
NA	BKS100994	Laboratory Control
SB-CZ-SS-2208-ST	SP710114-060-060-1/1	MS/MSD

The analytical results of all quality control samples met the acceptance criteria specified in the SC&A's and GPL's QA Plans and any client supplied requirements.

Sincerely,

Cynthia White
Laboratory Director

12/10/2007
Date

SAMPLE AND QC RESULTS SUMMARY

SC&A, Inc.
Southeastern Environmental Laboratory

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2191-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7933	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-01	11/15/07 09:16	3.54	0.506	0.618	0.202
DOE 4.5.2.3	CO-60	OH207-7933-01	11/15/07 09:16	-0.004	0.014	0.014	0.023
DOE 4.5.2.3	RH-101	OH207-7933-01	11/15/07 09:16	-0.012	0.016	0.016	0.025
DOE 4.5.2.3	SB-125	OH207-7933-01	11/15/07 09:16	0.007	0.040	0.040	0.068
DOE 4.5.2.3	CS-137	OH207-7933-01	11/15/07 09:16	0.118	0.034	0.036	0.027
DOE 4.5.2.3	EU-155	OH207-7933-01	11/15/07 09:16	0.059	0.055	0.055	0.094
DOE 4.5.2.3	TL-208	OH207-7933-01	11/15/07 09:16	0.288	0.047	0.055	0.023
DOE 4.5.2.3	PO-209	OH207-7933-01	11/15/07 09:16	-2.38	2.82	2.83	4.51
DOE 4.5.2.3	BI-211	OH207-7933-01	11/15/07 09:16	-0.202	0.409	0.410	0.689
DOE 4.5.2.3	BI-212	OH207-7933-01	11/15/07 09:16	0.792	0.229	0.242	0.183
DOE 4.5.2.3	PB-212	OH207-7933-01	11/15/07 09:16	0.688	0.075	0.102	0.051
DOE 4.5.2.3	BI-214	OH207-7933-01	11/15/07 09:16	0.601	0.092	0.110	0.049
DOE 4.5.2.3	PB-214	OH207-7933-01	11/15/07 09:16	0.620	0.080	0.101	0.049
DOE 4.5.2.3	RA-223	OH207-7933-01	11/15/07 09:16	0.289	0.168	0.170	0.123
DOE 4.5.2.3	AC-228	OH207-7933-01	11/15/07 09:16	0.798	0.148	0.168	0.094
DOE 4.5.2.3	PA-233	OH207-7933-01	11/15/07 09:16	-0.014	0.026	0.026	0.043
DOE 4.5.2.3	PA-234M	OH207-7933-01	11/15/07 09:16	-0.840	1.56	1.57	2.62
DOE 4.5.2.3	TH-234	OH207-7933-01	11/15/07 09:16	1.15	0.312	0.333	0.539
DOE 4.5.2.3	U-235	OH207-7933-01	11/15/07 09:16	0.074	0.096	0.096	0.162
DOE 4.5.2.3	NP-236	OH207-7933-01	11/15/07 09:16	0.002	0.032	0.032	0.053
DOE 4.5.2.3	NP-237	OH207-7933-01	11/15/07 09:16	0.470	0.167	0.173	0.190
DOE 4.5.2.3	NP-239	OH207-7933-01	11/15/07 09:16	0.005	0.094	0.094	0.164
DOE 4.5.2.3	AM-241	OH207-7933-01	11/15/07 09:16	0.008	0.089	0.089	0.138
DOE 4.5.2.3	AM-243	OH207-7933-01	11/15/07 09:16	0.204	0.056	0.060	0.045
DOE 4.5.2.3	CM-243	OH207-7933-01	11/15/07 09:16	-0.013	0.050	0.050	0.083
DOE 4.5.2.3	AM-246	OH207-7933-01	11/15/07 09:16	0.061	0.052	0.052	0.098
DOE 4.5.2.3	CF-249	OH207-7933-01	11/15/07 09:16	-0.013	0.016	0.016	0.026

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

1000 Monticello Court * Montgomery, Alabama * 36117 * 334.272.2234 * FAX 334.213.0407

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2192-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7933	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-02	11/15/07 09:17	3.48	0.538	0.640	0.271
DOE 4.5.2.3	CO-60	OH207-7933-02	11/15/07 09:17	-0.006	0.016	0.016	0.026
DOE 4.5.2.3	RH-101	OH207-7933-02	11/15/07 09:17	-0.009	0.018	0.018	0.030
DOE 4.5.2.3	SB-125	OH207-7933-02	11/15/07 09:17	0.031	0.046	0.046	0.082
DOE 4.5.2.3	CS-137	OH207-7933-02	11/15/07 09:17	0.282	0.044	0.052	0.036
DOE 4.5.2.3	EU-155	OH207-7933-02	11/15/07 09:17	0.073	0.050	0.050	0.088
DOE 4.5.2.3	TL-208	OH207-7933-02	11/15/07 09:17	0.233	0.044	0.050	0.030
DOE 4.5.2.3	PO-209	OH207-7933-02	11/15/07 09:17	1.27	3.30	3.30	6.05
DOE 4.5.2.3	BI-211	OH207-7933-02	11/15/07 09:17	0.149	0.506	0.506	0.887
DOE 4.5.2.3	BI-212	OH207-7933-02	11/15/07 09:17	0.570	0.214	0.221	0.213
DOE 4.5.2.3	PB-212	OH207-7933-02	11/15/07 09:17	0.797	0.082	0.114	0.047
DOE 4.5.2.3	BI-214	OH207-7933-02	11/15/07 09:17	0.622	0.090	0.109	0.056
DOE 4.5.2.3	PB-214	OH207-7933-02	11/15/07 09:17	0.702	0.092	0.116	0.058
DOE 4.5.2.3	RA-223	OH207-7933-02	11/15/07 09:17	0.247	0.110	0.113	0.147
DOE 4.5.2.3	AC-228	OH207-7933-02	11/15/07 09:17	0.963	0.148	0.177	0.111
DOE 4.5.2.3	PA-233	OH207-7933-02	11/15/07 09:17	-0.011	0.032	0.032	0.053
DOE 4.5.2.3	PA-234M	OH207-7933-02	11/15/07 09:17	-0.256	2.02	2.02	3.59
DOE 4.5.2.3	TH-234	OH207-7933-02	11/15/07 09:17	0.969	0.348	0.361	0.338
DOE 4.5.2.3	U-235	OH207-7933-02	11/15/07 09:17	0.095	0.107	0.108	0.186
DOE 4.5.2.3	NP-236	OH207-7933-02	11/15/07 09:17	0.016	0.029	0.029	0.047
DOE 4.5.2.3	NP-237	OH207-7933-02	11/15/07 09:17	0.411	0.126	0.133	0.136
DOE 4.5.2.3	NP-239	OH207-7933-02	11/15/07 09:17	0.027	0.110	0.110	0.187
DOE 4.5.2.3	AM-241	OH207-7933-02	11/15/07 09:17	-0.002	0.035	0.035	0.050
DOE 4.5.2.3	AM-243	OH207-7933-02	11/15/07 09:17	0.110	0.031	0.033	0.031
DOE 4.5.2.3	CM-243	OH207-7933-02	11/15/07 09:17	0.011	0.045	0.045	0.078
DOE 4.5.2.3	AM-246	OH207-7933-02	11/15/07 09:17	0.029	0.059	0.059	0.109
DOE 4.5.2.3	CF-249	OH207-7933-02	11/15/07 09:17	-0.002	0.020	0.020	0.035

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2193-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7933	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-03	11/15/07 12:19	2.47	0.373	0.448	0.174
DOE 4.5.2.3	CO-60	OH207-7933-03	11/15/07 12:19	0.012	0.014	0.014	0.023
DOE 4.5.2.3	RH-101	OH207-7933-03	11/15/07 12:19	7.1e-04	0.016	0.016	0.027
DOE 4.5.2.3	SB-125	OH207-7933-03	11/15/07 12:19	-0.001	0.041	0.041	0.070
DOE 4.5.2.3	CS-137	OH207-7933-03	11/15/07 12:19	0.260	0.048	0.054	0.029
DOE 4.5.2.3	EU-155	OH207-7933-03	11/15/07 12:19	0.033	0.060	0.060	0.103
DOE 4.5.2.3	TL-208	OH207-7933-03	11/15/07 12:19	0.283	0.048	0.056	0.027
DOE 4.5.2.3	PO-209	OH207-7933-03	11/15/07 12:19	-1.33	2.90	2.90	4.90
DOE 4.5.2.3	BI-211	OH207-7933-03	11/15/07 12:19	-0.464	0.415	0.417	0.663
DOE 4.5.2.3	BI-212	OH207-7933-03	11/15/07 12:19	0.641	0.195	0.206	0.201
DOE 4.5.2.3	PB-212	OH207-7933-03	11/15/07 12:19	0.842	0.082	0.118	0.041
DOE 4.5.2.3	BI-214	OH207-7933-03	11/15/07 12:19	0.523	0.084	0.099	0.053
DOE 4.5.2.3	PB-214	OH207-7933-03	11/15/07 12:19	0.542	0.085	0.101	0.051
DOE 4.5.2.3	RA-223	OH207-7933-03	11/15/07 12:19	0.244	0.105	0.108	0.134
DOE 4.5.2.3	AC-228	OH207-7933-03	11/15/07 12:19	0.859	0.127	0.154	0.086
DOE 4.5.2.3	PA-233	OH207-7933-03	11/15/07 12:19	0.012	0.027	0.027	0.048
DOE 4.5.2.3	PA-234M	OH207-7933-03	11/15/07 12:19	-0.549	1.56	1.57	2.70
DOE 4.5.2.3	TH-234	OH207-7933-03	11/15/07 12:19	1.47	0.580	0.599	0.608
DOE 4.5.2.3	U-235	OH207-7933-03	11/15/07 12:19	0.037	0.100	0.100	0.170
DOE 4.5.2.3	NP-236	OH207-7933-03	11/15/07 12:19	0.039	0.037	0.037	0.059
DOE 4.5.2.3	NP-237	OH207-7933-03	11/15/07 12:19	0.540	0.198	0.205	0.241
DOE 4.5.2.3	NP-239	OH207-7933-03	11/15/07 12:19	0.049	0.105	0.105	0.176
DOE 4.5.2.3	AM-241	OH207-7933-03	11/15/07 12:19	0.006	0.096	0.096	0.168
DOE 4.5.2.3	AM-243	OH207-7933-03	11/15/07 12:19	0.181	0.059	0.062	0.052
DOE 4.5.2.3	CM-243	OH207-7933-03	11/15/07 12:19	0.022	0.052	0.053	0.091
DOE 4.5.2.3	AM-246	OH207-7933-03	11/15/07 12:19	-0.017	0.044	0.044	0.075
DOE 4.5.2.3	CF-249	OH207-7933-03	11/15/07 12:19	0.011	0.018	0.018	0.033

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2194-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7933	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-04	11/15/07 12:20	3.01	0.423	0.519	0.210
DOE 4.5.2.3	CO-60	OH207-7933-04	11/15/07 12:20	-0.005	0.014	0.014	0.022
DOE 4.5.2.3	RH-101	OH207-7933-04	11/15/07 12:20	-0.010	0.016	0.016	0.026
DOE 4.5.2.3	SB-125	OH207-7933-04	11/15/07 12:20	-0.002	0.040	0.040	0.068
DOE 4.5.2.3	CS-137	OH207-7933-04	11/15/07 12:20	0.151	0.035	0.038	0.029
DOE 4.5.2.3	EU-155	OH207-7933-04	11/15/07 12:20	0.049	0.057	0.057	0.097
DOE 4.5.2.3	TL-208	OH207-7933-04	11/15/07 12:20	0.336	0.051	0.061	0.026
DOE 4.5.2.3	PO-209	OH207-7933-04	11/15/07 12:20	1.06	2.77	2.77	4.99
DOE 4.5.2.3	BI-211	OH207-7933-04	11/15/07 12:20	0.126	0.432	0.432	0.680
DOE 4.5.2.3	BI-212	OH207-7933-04	11/15/07 12:20	0.846	0.238	0.252	0.183
DOE 4.5.2.3	PB-212	OH207-7933-04	11/15/07 12:20	0.953	0.089	0.130	0.041
DOE 4.5.2.3	BI-214	OH207-7933-04	11/15/07 12:20	0.687	0.103	0.124	0.049
DOE 4.5.2.3	PB-214	OH207-7933-04	11/15/07 12:20	0.748	0.098	0.123	0.051
DOE 4.5.2.3	RA-223	OH207-7933-04	11/15/07 12:20	0.337	0.130	0.135	0.135
DOE 4.5.2.3	AC-228	OH207-7933-04	11/15/07 12:20	1.10	0.173	0.204	0.089
DOE 4.5.2.3	PA-233	OH207-7933-04	11/15/07 12:20	0.018	0.028	0.028	0.048
DOE 4.5.2.3	PA-234M	OH207-7933-04	11/15/07 12:20	1.92	1.82	1.83	2.65
DOE 4.5.2.3	TH-234	OH207-7933-04	11/15/07 12:20	0.432	0.324	0.327	0.548
DOE 4.5.2.3	U-235	OH207-7933-04	11/15/07 12:20	-9.0e-04	0.101	0.101	0.166
DOE 4.5.2.3	NP-236	OH207-7933-04	11/15/07 12:20	-9.2e-04	0.033	0.033	0.055
DOE 4.5.2.3	NP-237	OH207-7933-04	11/15/07 12:20	0.450	0.174	0.180	0.208
DOE 4.5.2.3	NP-239	OH207-7933-04	11/15/07 12:20	0.044	0.097	0.097	0.170
DOE 4.5.2.3	AM-241	OH207-7933-04	11/15/07 12:20	-0.042	0.084	0.084	0.141
DOE 4.5.2.3	AM-243	OH207-7933-04	11/15/07 12:20	0.210	0.058	0.061	0.045
DOE 4.5.2.3	CM-243	OH207-7933-04	11/15/07 12:20	0.038	0.052	0.052	0.088
DOE 4.5.2.3	AM-246	OH207-7933-04	11/15/07 12:20	-0.010	0.048	0.048	0.082
DOE 4.5.2.3	CF-249	OH207-7933-04	11/15/07 12:20	-0.009	0.017	0.017	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2195-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7933	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-05	11/15/07 12:21	4.35	0.503	0.665	0.255
DOE 4.5.2.3	CO-60	OH207-7933-05	11/15/07 12:21	0.012	0.016	0.016	0.027
DOE 4.5.2.3	RH-101	OH207-7933-05	11/15/07 12:21	0.003	0.017	0.017	0.029
DOE 4.5.2.3	SB-125	OH207-7933-05	11/15/07 12:21	0.028	0.044	0.044	0.078
DOE 4.5.2.3	CS-137	OH207-7933-05	11/15/07 12:21	0.134	0.030	0.033	0.032
DOE 4.5.2.3	EU-155	OH207-7933-05	11/15/07 12:21	0.021	0.048	0.048	0.083
DOE 4.5.2.3	TL-208	OH207-7933-05	11/15/07 12:21	0.336	0.046	0.057	0.026
DOE 4.5.2.3	PO-209	OH207-7933-05	11/15/07 12:21	-2.19	2.94	2.94	4.88
DOE 4.5.2.3	BI-211	OH207-7933-05	11/15/07 12:21	0.297	0.470	0.470	0.832
DOE 4.5.2.3	BI-212	OH207-7933-05	11/15/07 12:21	0.283	0.218	0.220	0.212
DOE 4.5.2.3	PB-212	OH207-7933-05	11/15/07 12:21	0.937	0.088	0.129	0.044
DOE 4.5.2.3	BI-214	OH207-7933-05	11/15/07 12:21	0.852	0.102	0.133	0.051
DOE 4.5.2.3	PB-214	OH207-7933-05	11/15/07 12:21	0.837	0.103	0.133	0.053
DOE 4.5.2.3	RA-223	OH207-7933-05	11/15/07 12:21	0.312	0.151	0.154	0.136
DOE 4.5.2.3	AC-228	OH207-7933-05	11/15/07 12:21	1.06	0.154	0.187	0.096
DOE 4.5.2.3	PA-233	OH207-7933-05	11/15/07 12:21	0.006	0.030	0.030	0.050
DOE 4.5.2.3	PA-234M	OH207-7933-05	11/15/07 12:21	2.15	1.91	1.92	3.62
DOE 4.5.2.3	TH-234	OH207-7933-05	11/15/07 12:21	1.01	0.341	0.355	0.319
DOE 4.5.2.3	U-235	OH207-7933-05	11/15/07 12:21	0.055	0.102	0.102	0.174
DOE 4.5.2.3	NP-236	OH207-7933-05	11/15/07 12:21	0.018	0.032	0.032	0.046
DOE 4.5.2.3	NP-237	OH207-7933-05	11/15/07 12:21	0.380	0.124	0.130	0.139
DOE 4.5.2.3	NP-239	OH207-7933-05	11/15/07 12:21	0.119	0.113	0.113	0.193
DOE 4.5.2.3	AM-241	OH207-7933-05	11/15/07 12:21	0.020	0.032	0.032	0.047
DOE 4.5.2.3	AM-243	OH207-7933-05	11/15/07 12:21	0.145	0.040	0.042	0.027
DOE 4.5.2.3	CM-243	OH207-7933-05	11/15/07 12:21	-0.042	0.044	0.044	0.073
DOE 4.5.2.3	AM-246	OH207-7933-05	11/15/07 12:21	0.023	0.054	0.054	0.098
DOE 4.5.2.3	CF-249	OH207-7933-05	11/15/07 12:21	0.012	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2196-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7933	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-06	11/15/07 15:27	5.77	0.586	0.823	0.203
DOE 4.5.2.3	CO-60	OH207-7933-06	11/15/07 15:27	0.010	0.015	0.015	0.023
DOE 4.5.2.3	RH-101	OH207-7933-06	11/15/07 15:27	-0.002	0.016	0.016	0.025
DOE 4.5.2.3	SB-125	OH207-7933-06	11/15/07 15:27	-0.010	0.042	0.042	0.071
DOE 4.5.2.3	CS-137	OH207-7933-06	11/15/07 15:27	0.184	0.032	0.037	0.027
DOE 4.5.2.3	EU-155	OH207-7933-06	11/15/07 15:27	0.081	0.072	0.073	0.094
DOE 4.5.2.3	TL-208	OH207-7933-06	11/15/07 15:27	0.321	0.049	0.059	0.025
DOE 4.5.2.3	PO-209	OH207-7933-06	11/15/07 15:27	0.226	2.84	2.84	4.99
DOE 4.5.2.3	BI-211	OH207-7933-06	11/15/07 15:27	-0.420	0.427	0.429	0.697
DOE 4.5.2.3	BI-212	OH207-7933-06	11/15/07 15:27	0.634	0.225	0.234	0.187
DOE 4.5.2.3	PB-212	OH207-7933-06	11/15/07 15:27	1.00	0.091	0.135	0.040
DOE 4.5.2.3	BI-214	OH207-7933-06	11/15/07 15:27	0.819	0.112	0.139	0.053
DOE 4.5.2.3	PB-214	OH207-7933-06	11/15/07 15:27	0.899	0.102	0.136	0.051
DOE 4.5.2.3	RA-223	OH207-7933-06	11/15/07 15:27	0.337	0.141	0.145	0.123
DOE 4.5.2.3	AC-228	OH207-7933-06	11/15/07 15:27	1.18	0.138	0.182	0.087
DOE 4.5.2.3	PA-233	OH207-7933-06	11/15/07 15:27	-0.004	0.026	0.026	0.045
DOE 4.5.2.3	PA-234M	OH207-7933-06	11/15/07 15:27	2.48	1.69	1.71	3.24
DOE 4.5.2.3	TH-234	OH207-7933-06	11/15/07 15:27	1.70	0.477	0.507	0.579
DOE 4.5.2.3	U-235	OH207-7933-06	11/15/07 15:27	-0.103	0.101	0.101	0.162
DOE 4.5.2.3	NP-236	OH207-7933-06	11/15/07 15:27	0.020	0.034	0.034	0.056
DOE 4.5.2.3	NP-237	OH207-7933-06	11/15/07 15:27	0.433	0.187	0.192	0.236
DOE 4.5.2.3	NP-239	OH207-7933-06	11/15/07 15:27	-0.038	0.104	0.104	0.167
DOE 4.5.2.3	AM-241	OH207-7933-06	11/15/07 15:27	-0.021	0.089	0.089	0.154
DOE 4.5.2.3	AM-243	OH207-7933-06	11/15/07 15:27	0.193	0.057	0.060	0.050
DOE 4.5.2.3	CM-243	OH207-7933-06	11/15/07 15:27	0.004	0.056	0.056	0.085
DOE 4.5.2.3	AM-246	OH207-7933-06	11/15/07 15:27	0.017	0.045	0.045	0.081
DOE 4.5.2.3	CF-249	OH207-7933-06	11/15/07 15:27	0.018	0.018	0.018	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2197-ST
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7933 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-07	11/15/07 15:30	5.70	0.589	0.819	0.184
DOE 4.5.2.3	CO-60	OH207-7933-07	11/15/07 15:30	0.008	0.014	0.015	0.025
DOE 4.5.2.3	RH-101	OH207-7933-07	11/15/07 15:30	-0.014	0.016	0.016	0.025
DOE 4.5.2.3	SB-125	OH207-7933-07	11/15/07 15:30	-0.004	0.040	0.040	0.068
DOE 4.5.2.3	CS-137	OH207-7933-07	11/15/07 15:30	0.105	0.028	0.029	0.029
DOE 4.5.2.3	EU-155	OH207-7933-07	11/15/07 15:30	0.043	0.056	0.056	0.095
DOE 4.5.2.3	TL-208	OH207-7933-07	11/15/07 15:30	0.301	0.048	0.057	0.025
DOE 4.5.2.3	PO-209	OH207-7933-07	11/15/07 15:30	1.60	2.79	2.80	5.03
DOE 4.5.2.3	BI-211	OH207-7933-07	11/15/07 15:30	0.017	0.432	0.432	0.751
DOE 4.5.2.3	BI-212	OH207-7933-07	11/15/07 15:30	0.518	0.218	0.224	0.194
DOE 4.5.2.3	PB-212	OH207-7933-07	11/15/07 15:30	0.902	0.084	0.123	0.041
DOE 4.5.2.3	BI-214	OH207-7933-07	11/15/07 15:30	0.942	0.127	0.158	0.048
DOE 4.5.2.3	PB-214	OH207-7933-07	11/15/07 15:30	0.949	0.101	0.138	0.046
DOE 4.5.2.3	RA-223	OH207-7933-07	11/15/07 15:30	0.354	0.121	0.126	0.130
DOE 4.5.2.3	AC-228	OH207-7933-07	11/15/07 15:30	1.12	0.152	0.189	0.082
DOE 4.5.2.3	PA-233	OH207-7933-07	11/15/07 15:30	-0.006	0.027	0.027	0.045
DOE 4.5.2.3	PA-234M	OH207-7933-07	11/15/07 15:30	-0.266	1.66	1.66	2.84
DOE 4.5.2.3	TH-234	OH207-7933-07	11/15/07 15:30	1.05	0.428	0.441	0.534
DOE 4.5.2.3	U-235	OH207-7933-07	11/15/07 15:30	0.058	0.100	0.101	0.168
DOE 4.5.2.3	NP-236	OH207-7933-07	11/15/07 15:30	0.002	0.033	0.033	0.053
DOE 4.5.2.3	NP-237	OH207-7933-07	11/15/07 15:30	0.485	0.170	0.177	0.218
DOE 4.5.2.3	NP-239	OH207-7933-07	11/15/07 15:30	0.008	0.097	0.097	0.167
DOE 4.5.2.3	AM-241	OH207-7933-07	11/15/07 15:30	-0.040	0.081	0.081	0.136
DOE 4.5.2.3	AM-243	OH207-7933-07	11/15/07 15:30	0.178	0.050	0.054	0.047
DOE 4.5.2.3	CM-243	OH207-7933-07	11/15/07 15:30	0.006	0.050	0.050	0.084
DOE 4.5.2.3	AM-246	OH207-7933-07	11/15/07 15:30	-0.005	0.049	0.049	0.084
DOE 4.5.2.3	CF-249	OH207-7933-07	11/15/07 15:30	0.014	0.017	0.017	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2198-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7933	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-08	11/15/07 18:34	7.47	0.762	1.07	0.222
DOE 4.5.2.3	CO-60	OH207-7933-08	11/15/07 18:34	0.005	0.016	0.016	0.027
DOE 4.5.2.3	RH-101	OH207-7933-08	11/15/07 18:34	0.013	0.018	0.018	0.029
DOE 4.5.2.3	SB-125	OH207-7933-08	11/15/07 18:34	0.029	0.043	0.044	0.076
DOE 4.5.2.3	CS-137	OH207-7933-08	11/15/07 18:34	0.057	0.026	0.027	0.035
DOE 4.5.2.3	EU-155	OH207-7933-08	11/15/07 18:34	0.114	0.082	0.083	0.108
DOE 4.5.2.3	TL-208	OH207-7933-08	11/15/07 18:34	0.479	0.064	0.080	0.028
DOE 4.5.2.3	PO-209	OH207-7933-08	11/15/07 18:34	-0.402	2.96	2.96	5.12
DOE 4.5.2.3	BI-211	OH207-7933-08	11/15/07 18:34	-0.366	0.465	0.467	0.770
DOE 4.5.2.3	BI-212	OH207-7933-08	11/15/07 18:34	0.851	0.266	0.279	0.210
DOE 4.5.2.3	PB-212	OH207-7933-08	11/15/07 18:34	1.36	0.121	0.182	0.044
DOE 4.5.2.3	BI-214	OH207-7933-08	11/15/07 18:34	0.930	0.127	0.158	0.053
DOE 4.5.2.3	PB-214	OH207-7933-08	11/15/07 18:34	1.04	0.112	0.153	0.054
DOE 4.5.2.3	RA-223	OH207-7933-08	11/15/07 18:34	0.460	0.142	0.149	0.144
DOE 4.5.2.3	AC-228	OH207-7933-08	11/15/07 18:34	1.45	0.168	0.222	0.092
DOE 4.5.2.3	PA-233	OH207-7933-08	11/15/07 18:34	-0.020	0.029	0.029	0.049
DOE 4.5.2.3	PA-234M	OH207-7933-08	11/15/07 18:34	1.56	1.97	1.98	3.59
DOE 4.5.2.3	TH-234	OH207-7933-08	11/15/07 18:34	0.962	0.401	0.413	0.517
DOE 4.5.2.3	U-235	OH207-7933-08	11/15/07 18:34	-0.007	0.109	0.109	0.181
DOE 4.5.2.3	NP-236	OH207-7933-08	11/15/07 18:34	0.050	0.038	0.039	0.066
DOE 4.5.2.3	NP-237	OH207-7933-08	11/15/07 18:34	0.650	0.202	0.213	0.269
DOE 4.5.2.3	NP-239	OH207-7933-08	11/15/07 18:34	0.038	0.117	0.117	0.192
DOE 4.5.2.3	AM-241	OH207-7933-08	11/15/07 18:34	0.089	0.112	0.112	0.179
DOE 4.5.2.3	AM-243	OH207-7933-08	11/15/07 18:34	0.272	0.073	0.078	0.056
DOE 4.5.2.3	CM-243	OH207-7933-08	11/15/07 18:34	0.056	0.064	0.064	0.099
DOE 4.5.2.3	AM-246	OH207-7933-08	11/15/07 18:34	0.018	0.055	0.055	0.098
DOE 4.5.2.3	CF-249	OH207-7933-08	11/15/07 18:34	0.008	0.020	0.020	0.035

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2199-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7933	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-09	11/15/07 18:36	4.35	0.460	0.633	0.205
DOE 4.5.2.3	CO-60	OH207-7933-09	11/15/07 18:36	0.008	0.014	0.014	0.024
DOE 4.5.2.3	RH-101	OH207-7933-09	11/15/07 18:36	0.005	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	OH207-7933-09	11/15/07 18:36	0.031	0.035	0.035	0.061
DOE 4.5.2.3	CS-137	OH207-7933-09	11/15/07 18:36	0.030	0.016	0.016	0.030
DOE 4.5.2.3	EU-155	OH207-7933-09	11/15/07 18:36	0.083	0.053	0.053	0.090
DOE 4.5.2.3	TL-208	OH207-7933-09	11/15/07 18:36	0.310	0.043	0.053	0.024
DOE 4.5.2.3	PO-209	OH207-7933-09	11/15/07 18:36	2.01	2.38	2.39	4.36
DOE 4.5.2.3	BI-211	OH207-7933-09	11/15/07 18:36	0.021	0.382	0.382	0.665
DOE 4.5.2.3	BI-212	OH207-7933-09	11/15/07 18:36	0.768	0.211	0.224	0.164
DOE 4.5.2.3	PB-212	OH207-7933-09	11/15/07 18:36	0.928	0.084	0.125	0.036
DOE 4.5.2.3	BI-214	OH207-7933-09	11/15/07 18:36	0.737	0.102	0.126	0.041
DOE 4.5.2.3	PB-214	OH207-7933-09	11/15/07 18:36	0.765	0.083	0.113	0.045
DOE 4.5.2.3	RA-223	OH207-7933-09	11/15/07 18:36	0.294	0.147	0.150	0.118
DOE 4.5.2.3	AC-228	OH207-7933-09	11/15/07 18:36	0.987	0.136	0.168	0.085
DOE 4.5.2.3	PA-233	OH207-7933-09	11/15/07 18:36	-3.2e-04	0.024	0.024	0.041
DOE 4.5.2.3	PA-234M	OH207-7933-09	11/15/07 18:36	1.69	1.54	1.54	2.86
DOE 4.5.2.3	TH-234	OH207-7933-09	11/15/07 18:36	1.11	0.340	0.357	0.487
DOE 4.5.2.3	U-235	OH207-7933-09	11/15/07 18:36	0.029	0.089	0.089	0.147
DOE 4.5.2.3	NP-236	OH207-7933-09	11/15/07 18:36	0.012	0.031	0.031	0.050
DOE 4.5.2.3	NP-237	OH207-7933-09	11/15/07 18:36	0.374	0.162	0.166	0.184
DOE 4.5.2.3	NP-239	OH207-7933-09	11/15/07 18:36	0.005	0.088	0.088	0.153
DOE 4.5.2.3	AM-241	OH207-7933-09	11/15/07 18:36	-0.075	0.073	0.073	0.121
DOE 4.5.2.3	AM-243	OH207-7933-09	11/15/07 18:36	0.196	0.053	0.057	0.042
DOE 4.5.2.3	CM-243	OH207-7933-09	11/15/07 18:36	-0.036	0.048	0.048	0.078
DOE 4.5.2.3	AM-246	OH207-7933-09	11/15/07 18:36	0.052	0.045	0.046	0.084
DOE 4.5.2.3	CF-249	OH207-7933-09	11/15/07 18:36	6.9e-04	0.015	0.015	0.026

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2200-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7933	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-10	11/15/07 18:37	5.42	0.612	0.817	0.225
DOE 4.5.2.3	CO-60	OH207-7933-10	11/15/07 18:37	0.007	0.017	0.017	0.030
DOE 4.5.2.3	RH-101	OH207-7933-10	11/15/07 18:37	-0.006	0.018	0.018	0.029
DOE 4.5.2.3	SB-125	OH207-7933-10	11/15/07 18:37	-0.002	0.046	0.046	0.079
DOE 4.5.2.3	CS-137	OH207-7933-10	11/15/07 18:37	0.183	0.043	0.047	0.030
DOE 4.5.2.3	EU-155	OH207-7933-10	11/15/07 18:37	0.058	0.052	0.052	0.090
DOE 4.5.2.3	TL-208	OH207-7933-10	11/15/07 18:37	0.388	0.053	0.065	0.029
DOE 4.5.2.3	PO-209	OH207-7933-10	11/15/07 18:37	7.6e-04	3.31	3.31	5.84
DOE 4.5.2.3	BI-211	OH207-7933-10	11/15/07 18:37	-0.213	0.492	0.493	0.813
DOE 4.5.2.3	BI-212	OH207-7933-10	11/15/07 18:37	0.730	0.193	0.206	0.233
DOE 4.5.2.3	PB-212	OH207-7933-10	11/15/07 18:37	1.12	0.102	0.151	0.048
DOE 4.5.2.3	BI-214	OH207-7933-10	11/15/07 18:37	0.930	0.107	0.141	0.053
DOE 4.5.2.3	PB-214	OH207-7933-10	11/15/07 18:37	0.937	0.107	0.142	0.058
DOE 4.5.2.3	RA-223	OH207-7933-10	11/15/07 18:37	0.446	0.150	0.157	0.144
DOE 4.5.2.3	AC-228	OH207-7933-10	11/15/07 18:37	1.18	0.173	0.209	0.114
DOE 4.5.2.3	PA-233	OH207-7933-10	11/15/07 18:37	0.002	0.031	0.031	0.053
DOE 4.5.2.3	PA-234M	OH207-7933-10	11/15/07 18:37	-0.403	2.00	2.00	3.49
DOE 4.5.2.3	TH-234	OH207-7933-10	11/15/07 18:37	1.11	0.363	0.379	0.322
DOE 4.5.2.3	U-235	OH207-7933-10	11/15/07 18:37	0.094	0.111	0.111	0.191
DOE 4.5.2.3	NP-236	OH207-7933-10	11/15/07 18:37	0.048	0.031	0.031	0.048
DOE 4.5.2.3	NP-237	OH207-7933-10	11/15/07 18:37	0.294	0.154	0.156	0.166
DOE 4.5.2.3	NP-239	OH207-7933-10	11/15/07 18:37	0.015	0.116	0.116	0.196
DOE 4.5.2.3	AM-241	OH207-7933-10	11/15/07 18:37	0.046	0.035	0.036	0.053
DOE 4.5.2.3	AM-243	OH207-7933-10	11/15/07 18:37	0.187	0.043	0.047	0.029
DOE 4.5.2.3	CM-243	OH207-7933-10	11/15/07 18:37	0.002	0.046	0.046	0.079
DOE 4.5.2.3	AM-246	OH207-7933-10	11/15/07 18:37	0.025	0.059	0.059	0.106
DOE 4.5.2.3	CF-249	OH207-7933-10	11/15/07 18:37	0.008	0.020	0.020	0.035

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2201-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7933	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-11	11/15/07 21:49	6.81	0.669	0.955	0.263
DOE 4.5.2.3	CO-60	OH207-7933-11	11/15/07 21:49	-0.014	0.020	0.020	0.034
DOE 4.5.2.3	RH-101	OH207-7933-11	11/15/07 21:49	0.002	0.020	0.020	0.034
DOE 4.5.2.3	SB-125	OH207-7933-11	11/15/07 21:49	0.039	0.053	0.053	0.094
DOE 4.5.2.3	CS-137	OH207-7933-11	11/15/07 21:49	0.232	0.044	0.050	0.043
DOE 4.5.2.3	EU-155	OH207-7933-11	11/15/07 21:49	0.086	0.059	0.060	0.104
DOE 4.5.2.3	TL-208	OH207-7933-11	11/15/07 21:49	0.386	0.055	0.067	0.033
DOE 4.5.2.3	PO-209	OH207-7933-11	11/15/07 21:49	0.209	3.78	3.78	6.71
DOE 4.5.2.3	BI-211	OH207-7933-11	11/15/07 21:49	0.270	0.581	0.582	1.02
DOE 4.5.2.3	BI-212	OH207-7933-11	11/15/07 21:49	1.02	0.307	0.323	0.244
DOE 4.5.2.3	PB-212	OH207-7933-11	11/15/07 21:49	1.19	0.109	0.161	0.053
DOE 4.5.2.3	BI-214	OH207-7933-11	11/15/07 21:49	0.944	0.117	0.150	0.067
DOE 4.5.2.3	PB-214	OH207-7933-11	11/15/07 21:49	1.15	0.127	0.172	0.062
DOE 4.5.2.3	RA-223	OH207-7933-11	11/15/07 21:49	0.413	0.169	0.174	0.166
DOE 4.5.2.3	AC-228	OH207-7933-11	11/15/07 21:49	1.20	0.181	0.217	0.132
DOE 4.5.2.3	PA-233	OH207-7933-11	11/15/07 21:49	0.003	0.037	0.037	0.062
DOE 4.5.2.3	PA-234M	OH207-7933-11	11/15/07 21:49	2.35	2.27	2.28	4.27
DOE 4.5.2.3	TH-234	OH207-7933-11	11/15/07 21:49	1.56	0.376	0.407	0.428
DOE 4.5.2.3	U-235	OH207-7933-11	11/15/07 21:49	0.111	0.121	0.122	0.209
DOE 4.5.2.3	NP-236	OH207-7933-11	11/15/07 21:49	0.065	0.038	0.038	0.056
DOE 4.5.2.3	NP-237	OH207-7933-11	11/15/07 21:49	0.679	0.152	0.166	0.194
DOE 4.5.2.3	NP-239	OH207-7933-11	11/15/07 21:49	0.041	0.135	0.135	0.229
DOE 4.5.2.3	AM-241	OH207-7933-11	11/15/07 21:49	0.028	0.041	0.041	0.060
DOE 4.5.2.3	AM-243	OH207-7933-11	11/15/07 21:49	0.228	0.055	0.060	0.034
DOE 4.5.2.3	CM-243	OH207-7933-11	11/15/07 21:49	0.064	0.053	0.054	0.093
DOE 4.5.2.3	AM-246	OH207-7933-11	11/15/07 21:49	0.006	0.069	0.069	0.123
DOE 4.5.2.3	CF-249	OH207-7933-11	11/15/07 21:49	0.025	0.023	0.023	0.042

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2202-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7933	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-12	11/16/07 08:59	5.29	0.608	0.806	0.259
DOE 4.5.2.3	CO-60	OH207-7933-12	11/16/07 08:59	0.016	0.017	0.018	0.029
DOE 4.5.2.3	RH-101	OH207-7933-12	11/16/07 08:59	-0.010	0.018	0.018	0.029
DOE 4.5.2.3	SB-125	OH207-7933-12	11/16/07 08:59	0.006	0.047	0.047	0.081
DOE 4.5.2.3	CS-137	OH207-7933-12	11/16/07 08:59	0.215	0.043	0.048	0.034
DOE 4.5.2.3	EU-155	OH207-7933-12	11/16/07 08:59	0.047	0.069	0.069	0.118
DOE 4.5.2.3	TL-208	OH207-7933-12	11/16/07 08:59	0.386	0.056	0.068	0.031
DOE 4.5.2.3	PO-209	OH207-7933-12	11/16/07 08:59	-0.957	3.25	3.25	5.57
DOE 4.5.2.3	BI-211	OH207-7933-12	11/16/07 08:59	0.379	0.509	0.510	0.839
DOE 4.5.2.3	BI-212	OH207-7933-12	11/16/07 08:59	0.768	0.216	0.230	0.233
DOE 4.5.2.3	PB-212	OH207-7933-12	11/16/07 08:59	1.08	0.102	0.148	0.051
DOE 4.5.2.3	BI-214	OH207-7933-12	11/16/07 08:59	0.950	0.133	0.163	0.055
DOE 4.5.2.3	PB-214	OH207-7933-12	11/16/07 08:59	0.937	0.114	0.147	0.056
DOE 4.5.2.3	RA-223	OH207-7933-12	11/16/07 08:59	0.414	0.180	0.185	0.145
DOE 4.5.2.3	AC-228	OH207-7933-12	11/16/07 08:59	1.23	0.170	0.210	0.105
DOE 4.5.2.3	PA-233	OH207-7933-12	11/16/07 08:59	0.017	0.030	0.030	0.053
DOE 4.5.2.3	PA-234M	OH207-7933-12	11/16/07 08:59	1.66	1.87	1.88	3.51
DOE 4.5.2.3	TH-234	OH207-7933-12	11/16/07 08:59	1.57	0.506	0.530	0.541
DOE 4.5.2.3	U-235	OH207-7933-12	11/16/07 08:59	0.072	0.114	0.114	0.194
DOE 4.5.2.3	NP-236	OH207-7933-12	11/16/07 08:59	0.031	0.040	0.040	0.066
DOE 4.5.2.3	NP-237	OH207-7933-12	11/16/07 08:59	0.947	0.230	0.248	0.284
DOE 4.5.2.3	NP-239	OH207-7933-12	11/16/07 08:59	-0.052	0.120	0.120	0.192
DOE 4.5.2.3	AM-241	OH207-7933-12	11/16/07 08:59	-0.067	0.119	0.119	0.181
DOE 4.5.2.3	AM-243	OH207-7933-12	11/16/07 08:59	0.252	0.072	0.076	0.060
DOE 4.5.2.3	CM-243	OH207-7933-12	11/16/07 08:59	0.065	0.061	0.061	0.106
DOE 4.5.2.3	AM-246	OH207-7933-12	11/16/07 08:59	0.048	0.055	0.055	0.102
DOE 4.5.2.3	CF-249	OH207-7933-12	11/16/07 08:59	-0.005	0.020	0.020	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2203-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7933	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-13	11/16/07 09:00	5.39	0.583	0.794	0.207
DOE 4.5.2.3	CO-60	OH207-7933-13	11/16/07 09:00	-0.002	0.014	0.014	0.021
DOE 4.5.2.3	RH-101	OH207-7933-13	11/16/07 09:00	-0.005	0.016	0.016	0.026
DOE 4.5.2.3	SB-125	OH207-7933-13	11/16/07 09:00	-0.014	0.038	0.038	0.064
DOE 4.5.2.3	CS-137	OH207-7933-13	11/16/07 09:00	0.079	0.027	0.028	0.028
DOE 4.5.2.3	EU-155	OH207-7933-13	11/16/07 09:00	0.012	0.056	0.056	0.094
DOE 4.5.2.3	TL-208	OH207-7933-13	11/16/07 09:00	0.346	0.050	0.061	0.025
DOE 4.5.2.3	PO-209	OH207-7933-13	11/16/07 09:00	2.05	2.62	2.62	4.77
DOE 4.5.2.3	BI-211	OH207-7933-13	11/16/07 09:00	0.035	0.456	0.456	0.692
DOE 4.5.2.3	BI-212	OH207-7933-13	11/16/07 09:00	0.690	0.214	0.225	0.185
DOE 4.5.2.3	PB-212	OH207-7933-13	11/16/07 09:00	0.978	0.089	0.132	0.042
DOE 4.5.2.3	BI-214	OH207-7933-13	11/16/07 09:00	0.847	0.114	0.142	0.044
DOE 4.5.2.3	PB-214	OH207-7933-13	11/16/07 09:00	0.886	0.097	0.131	0.049
DOE 4.5.2.3	RA-223	OH207-7933-13	11/16/07 09:00	0.261	0.117	0.120	0.122
DOE 4.5.2.3	AC-228	OH207-7933-13	11/16/07 09:00	1.12	0.170	0.203	0.090
DOE 4.5.2.3	PA-233	OH207-7933-13	11/16/07 09:00	-0.014	0.026	0.026	0.044
DOE 4.5.2.3	PA-234M	OH207-7933-13	11/16/07 09:00	0.002	1.69	1.69	2.92
DOE 4.5.2.3	TH-234	OH207-7933-13	11/16/07 09:00	1.56	0.405	0.434	0.537
DOE 4.5.2.3	U-235	OH207-7933-13	11/16/07 09:00	0.002	0.100	0.100	0.164
DOE 4.5.2.3	NP-236	OH207-7933-13	11/16/07 09:00	0.007	0.035	0.035	0.055
DOE 4.5.2.3	NP-237	OH207-7933-13	11/16/07 09:00	0.659	0.178	0.189	0.192
DOE 4.5.2.3	NP-239	OH207-7933-13	11/16/07 09:00	0.026	0.097	0.097	0.169
DOE 4.5.2.3	AM-241	OH207-7933-13	11/16/07 09:00	-0.010	0.082	0.082	0.139
DOE 4.5.2.3	AM-243	OH207-7933-13	11/16/07 09:00	0.199	0.056	0.059	0.047
DOE 4.5.2.3	CM-243	OH207-7933-13	11/16/07 09:00	-0.010	0.051	0.051	0.084
DOE 4.5.2.3	AM-246	OH207-7933-13	11/16/07 09:00	0.038	0.049	0.049	0.089
DOE 4.5.2.3	CF-249	OH207-7933-13	11/16/07 09:00	0.024	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2204-ST
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7933 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7933-14	11/16/07 09:01	3.85	0.542	0.664	0.221
DOE 4.5.2.3	CO-60	OH207-7933-14	11/16/07 09:01	-0.010	0.017	0.017	0.026
DOE 4.5.2.3	RH-101	OH207-7933-14	11/16/07 09:01	-0.002	0.017	0.017	0.028
DOE 4.5.2.3	SB-125	OH207-7933-14	11/16/07 09:01	0.002	0.043	0.043	0.075
DOE 4.5.2.3	CS-137	OH207-7933-14	11/16/07 09:01	0.178	0.041	0.045	0.028
DOE 4.5.2.3	EU-155	OH207-7933-14	11/16/07 09:01	0.062	0.047	0.048	0.083
DOE 4.5.2.3	TL-208	OH207-7933-14	11/16/07 09:01	0.270	0.038	0.046	0.026
DOE 4.5.2.3	PO-209	OH207-7933-14	11/16/07 09:01	-1.06	3.09	3.09	5.34
DOE 4.5.2.3	BI-211	OH207-7933-14	11/16/07 09:01	-0.345	0.475	0.476	0.767
DOE 4.5.2.3	BI-212	OH207-7933-14	11/16/07 09:01	0.718	0.245	0.255	0.202
DOE 4.5.2.3	PB-212	OH207-7933-14	11/16/07 09:01	0.818	0.081	0.115	0.046
DOE 4.5.2.3	BI-214	OH207-7933-14	11/16/07 09:01	0.830	0.098	0.129	0.050
DOE 4.5.2.3	PB-214	OH207-7933-14	11/16/07 09:01	0.914	0.106	0.140	0.054
DOE 4.5.2.3	RA-223	OH207-7933-14	11/16/07 09:01	0.238	0.122	0.124	0.143
DOE 4.5.2.3	AC-228	OH207-7933-14	11/16/07 09:01	0.776	0.128	0.150	0.110
DOE 4.5.2.3	PA-233	OH207-7933-14	11/16/07 09:01	-0.003	0.030	0.030	0.050
DOE 4.5.2.3	PA-234M	OH207-7933-14	11/16/07 09:01	3.49	2.94	2.96	3.22
DOE 4.5.2.3	TH-234	OH207-7933-14	11/16/07 09:01	0.795	0.301	0.311	0.434
DOE 4.5.2.3	U-235	OH207-7933-14	11/16/07 09:01	0.088	0.101	0.101	0.174
DOE 4.5.2.3	NP-236	OH207-7933-14	11/16/07 09:01	0.041	0.029	0.030	0.046
DOE 4.5.2.3	NP-237	OH207-7933-14	11/16/07 09:01	0.382	0.137	0.142	0.136
DOE 4.5.2.3	NP-239	OH207-7933-14	11/16/07 09:01	-0.033	0.107	0.107	0.178
DOE 4.5.2.3	AM-241	OH207-7933-14	11/16/07 09:01	-0.090	0.031	0.032	0.046
DOE 4.5.2.3	AM-243	OH207-7933-14	11/16/07 09:01	0.125	0.035	0.037	0.027
DOE 4.5.2.3	CM-243	OH207-7933-14	11/16/07 09:01	-0.018	0.043	0.043	0.073
DOE 4.5.2.3	AM-246	OH207-7933-14	11/16/07 09:01	0.048	0.056	0.056	0.104
DOE 4.5.2.3	CF-249	OH207-7933-14	11/16/07 09:01	0.014	0.018	0.018	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CA-SS-2191-SD
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7934 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-01	11/16/07 15:21	3.67	0.490	0.612	0.284
DOE 4.5.2.3	CO-60	OH207-7934-01	11/16/07 15:21	0.005	0.019	0.019	0.033
DOE 4.5.2.3	RH-101	OH207-7934-01	11/16/07 15:21	-0.007	0.018	0.018	0.030
DOE 4.5.2.3	SB-125	OH207-7934-01	11/16/07 15:21	-0.013	0.047	0.047	0.081
DOE 4.5.2.3	CS-137	OH207-7934-01	11/16/07 15:21	0.092	0.032	0.033	0.036
DOE 4.5.2.3	EU-155	OH207-7934-01	11/16/07 15:21	0.007	0.052	0.052	0.090
DOE 4.5.2.3	TL-208	OH207-7934-01	11/16/07 15:21	0.260	0.043	0.050	0.031
DOE 4.5.2.3	PO-209	OH207-7934-01	11/16/07 15:21	0.740	3.70	3.70	6.70
DOE 4.5.2.3	BI-211	OH207-7934-01	11/16/07 15:21	-0.240	0.535	0.536	0.886
DOE 4.5.2.3	BI-212	OH207-7934-01	11/16/07 15:21	0.330	0.236	0.239	0.262
DOE 4.5.2.3	PB-212	OH207-7934-01	11/16/07 15:21	0.800	0.084	0.116	0.051
DOE 4.5.2.3	BI-214	OH207-7934-01	11/16/07 15:21	0.484	0.080	0.094	0.058
DOE 4.5.2.3	PB-214	OH207-7934-01	11/16/07 15:21	0.565	0.094	0.109	0.062
DOE 4.5.2.3	RA-223	OH207-7934-01	11/16/07 15:21	0.283	0.184	0.186	0.162
DOE 4.5.2.3	AC-228	OH207-7934-01	11/16/07 15:21	0.901	0.176	0.198	0.106
DOE 4.5.2.3	PA-233	OH207-7934-01	11/16/07 15:21	-0.005	0.034	0.034	0.057
DOE 4.5.2.3	PA-234M	OH207-7934-01	11/16/07 15:21	0.745	2.15	2.15	3.96
DOE 4.5.2.3	TH-234	OH207-7934-01	11/16/07 15:21	1.01	0.295	0.312	0.510
DOE 4.5.2.3	U-235	OH207-7934-01	11/16/07 15:21	-0.028	0.110	0.110	0.185
DOE 4.5.2.3	NP-236	OH207-7934-01	11/16/07 15:21	0.014	0.035	0.035	0.050
DOE 4.5.2.3	NP-237	OH207-7934-01	11/16/07 15:21	0.430	0.152	0.158	0.150
DOE 4.5.2.3	NP-239	OH207-7934-01	11/16/07 15:21	-0.001	0.119	0.119	0.202
DOE 4.5.2.3	AM-241	OH207-7934-01	11/16/07 15:21	-0.117	0.038	0.040	0.056
DOE 4.5.2.3	AM-243	OH207-7934-01	11/16/07 15:21	0.134	0.042	0.044	0.032
DOE 4.5.2.3	CM-243	OH207-7934-01	11/16/07 15:21	0.004	0.047	0.047	0.082
DOE 4.5.2.3	AM-246	OH207-7934-01	11/16/07 15:21	-0.012	0.063	0.063	0.110
DOE 4.5.2.3	CF-249	OH207-7934-01	11/16/07 15:21	0.007	0.022	0.022	0.038

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CA-SS-2192-SD
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7934 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-02	11/16/07 12:11	3.38	0.504	0.607	0.260
DOE 4.5.2.3	CO-60	OH207-7934-02	11/16/07 12:11	0.004	0.016	0.016	0.025
DOE 4.5.2.3	RH-101	OH207-7934-02	11/16/07 12:11	0.006	0.017	0.017	0.028
DOE 4.5.2.3	SB-125	OH207-7934-02	11/16/07 12:11	0.021	0.042	0.042	0.074
DOE 4.5.2.3	CS-137	OH207-7934-02	11/16/07 12:11	0.038	0.024	0.025	0.032
DOE 4.5.2.3	EU-155	OH207-7934-02	11/16/07 12:11	0.033	0.048	0.048	0.084
DOE 4.5.2.3	TL-208	OH207-7934-02	11/16/07 12:11	0.272	0.041	0.050	0.028
DOE 4.5.2.3	PO-209	OH207-7934-02	11/16/07 12:11	1.86	3.29	3.29	6.07
DOE 4.5.2.3	BI-211	OH207-7934-02	11/16/07 12:11	-0.254	0.480	0.480	0.788
DOE 4.5.2.3	BI-212	OH207-7934-02	11/16/07 12:11	0.567	0.247	0.254	0.205
DOE 4.5.2.3	PB-212	OH207-7934-02	11/16/07 12:11	0.787	0.080	0.112	0.043
DOE 4.5.2.3	BI-214	OH207-7934-02	11/16/07 12:11	0.564	0.085	0.102	0.056
DOE 4.5.2.3	PB-214	OH207-7934-02	11/16/07 12:11	0.592	0.080	0.099	0.057
DOE 4.5.2.3	RA-223	OH207-7934-02	11/16/07 12:11	0.168	0.143	0.144	0.139
DOE 4.5.2.3	AC-228	OH207-7934-02	11/16/07 12:11	0.810	0.144	0.166	0.100
DOE 4.5.2.3	PA-233	OH207-7934-02	11/16/07 12:11	-0.014	0.030	0.030	0.050
DOE 4.5.2.3	PA-234M	OH207-7934-02	11/16/07 12:11	1.98	2.06	2.07	3.92
DOE 4.5.2.3	TH-234	OH207-7934-02	11/16/07 12:11	0.928	0.283	0.297	0.457
DOE 4.5.2.3	U-235	OH207-7934-02	11/16/07 12:11	0.066	0.101	0.101	0.175
DOE 4.5.2.3	NP-236	OH207-7934-02	11/16/07 12:11	0.014	0.032	0.032	0.046
DOE 4.5.2.3	NP-237	OH207-7934-02	11/16/07 12:11	0.470	0.137	0.145	0.137
DOE 4.5.2.3	NP-239	OH207-7934-02	11/16/07 12:11	0.103	0.111	0.111	0.192
DOE 4.5.2.3	AM-241	OH207-7934-02	11/16/07 12:11	-0.107	0.034	0.036	0.050
DOE 4.5.2.3	AM-243	OH207-7934-02	11/16/07 12:11	0.118	0.035	0.037	0.028
DOE 4.5.2.3	CM-243	OH207-7934-02	11/16/07 12:11	7.2e-04	0.043	0.043	0.075
DOE 4.5.2.3	AM-246	OH207-7934-02	11/16/07 12:11	-0.002	0.056	0.056	0.099
DOE 4.5.2.3	CF-249	OH207-7934-02	11/16/07 12:11	-0.008	0.019	0.019	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CA-SS-2193-SD
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7934 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-03	11/16/07 15:17	1.76	0.347	0.389	0.177
DOE 4.5.2.3	CO-60	OH207-7934-03	11/16/07 15:17	0.005	0.012	0.012	0.021
DOE 4.5.2.3	RH-101	OH207-7934-03	11/16/07 15:17	-0.007	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7934-03	11/16/07 15:17	-0.021	0.035	0.035	0.057
DOE 4.5.2.3	CS-137	OH207-7934-03	11/16/07 15:17	0.192	0.036	0.041	0.024
DOE 4.5.2.3	EU-155	OH207-7934-03	11/16/07 15:17	0.057	0.051	0.052	0.090
DOE 4.5.2.3	TL-208	OH207-7934-03	11/16/07 15:17	0.219	0.039	0.044	0.024
DOE 4.5.2.3	PO-209	OH207-7934-03	11/16/07 15:17	-0.995	2.53	2.53	4.31
DOE 4.5.2.3	BI-211	OH207-7934-03	11/16/07 15:17	-0.227	0.374	0.374	0.629
DOE 4.5.2.3	BI-212	OH207-7934-03	11/16/07 15:17	0.543	0.162	0.170	0.160
DOE 4.5.2.3	PB-212	OH207-7934-03	11/16/07 15:17	0.604	0.063	0.087	0.039
DOE 4.5.2.3	BI-214	OH207-7934-03	11/16/07 15:17	0.463	0.074	0.087	0.043
DOE 4.5.2.3	PB-214	OH207-7934-03	11/16/07 15:17	0.452	0.072	0.085	0.044
DOE 4.5.2.3	RA-223	OH207-7934-03	11/16/07 15:17	0.187	0.111	0.113	0.112
DOE 4.5.2.3	AC-228	OH207-7934-03	11/16/07 15:17	0.717	0.119	0.139	0.075
DOE 4.5.2.3	PA-233	OH207-7934-03	11/16/07 15:17	-0.003	0.025	0.025	0.043
DOE 4.5.2.3	PA-234M	OH207-7934-03	11/16/07 15:17	-0.164	1.35	1.35	2.40
DOE 4.5.2.3	TH-234	OH207-7934-03	11/16/07 15:17	0.740	0.416	0.422	0.521
DOE 4.5.2.3	U-235	OH207-7934-03	11/16/07 15:17	0.016	0.087	0.087	0.146
DOE 4.5.2.3	NP-236	OH207-7934-03	11/16/07 15:17	0.003	0.031	0.031	0.050
DOE 4.5.2.3	NP-237	OH207-7934-03	11/16/07 15:17	0.245	0.141	0.143	0.216
DOE 4.5.2.3	NP-239	OH207-7934-03	11/16/07 15:17	0.001	0.092	0.092	0.151
DOE 4.5.2.3	AM-241	OH207-7934-03	11/16/07 15:17	-0.016	0.081	0.081	0.141
DOE 4.5.2.3	AM-243	OH207-7934-03	11/16/07 15:17	0.112	0.039	0.040	0.045
DOE 4.5.2.3	CM-243	OH207-7934-03	11/16/07 15:17	-0.007	0.046	0.046	0.078
DOE 4.5.2.3	AM-246	OH207-7934-03	11/16/07 15:17	0.001	0.042	0.042	0.075
DOE 4.5.2.3	CF-249	OH207-7934-03	11/16/07 15:17	0.014	0.016	0.016	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CA-SS-2194-SD
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7934 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-04	11/16/07 15:19	3.12	0.393	0.502	0.175
DOE 4.5.2.3	CO-60	OH207-7934-04	11/16/07 15:19	0.006	0.013	0.013	0.022
DOE 4.5.2.3	RH-101	OH207-7934-04	11/16/07 15:19	8.8e-04	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7934-04	11/16/07 15:19	0.031	0.038	0.038	0.067
DOE 4.5.2.3	CS-137	OH207-7934-04	11/16/07 15:19	0.139	0.038	0.040	0.027
DOE 4.5.2.3	EU-155	OH207-7934-04	11/16/07 15:19	0.059	0.054	0.054	0.093
DOE 4.5.2.3	TL-208	OH207-7934-04	11/16/07 15:19	0.263	0.043	0.050	0.022
DOE 4.5.2.3	PO-209	OH207-7934-04	11/16/07 15:19	3.37	2.44	2.46	4.68
DOE 4.5.2.3	BI-211	OH207-7934-04	11/16/07 15:19	0.141	0.411	0.411	0.735
DOE 4.5.2.3	BI-212	OH207-7934-04	11/16/07 15:19	0.702	0.226	0.237	0.165
DOE 4.5.2.3	PB-212	OH207-7934-04	11/16/07 15:19	0.812	0.077	0.112	0.038
DOE 4.5.2.3	BI-214	OH207-7934-04	11/16/07 15:19	0.590	0.089	0.107	0.043
DOE 4.5.2.3	PB-214	OH207-7934-04	11/16/07 15:19	0.558	0.076	0.094	0.047
DOE 4.5.2.3	RA-223	OH207-7934-04	11/16/07 15:19	0.353	0.131	0.136	0.118
DOE 4.5.2.3	AC-228	OH207-7934-04	11/16/07 15:19	0.942	0.145	0.173	0.063
DOE 4.5.2.3	PA-233	OH207-7934-04	11/16/07 15:19	-0.012	0.026	0.026	0.045
DOE 4.5.2.3	PA-234M	OH207-7934-04	11/16/07 15:19	0.649	1.43	1.43	2.64
DOE 4.5.2.3	TH-234	OH207-7934-04	11/16/07 15:19	1.05	0.354	0.369	0.522
DOE 4.5.2.3	U-235	OH207-7934-04	11/16/07 15:19	0.144	0.109	0.110	0.149
DOE 4.5.2.3	NP-236	OH207-7934-04	11/16/07 15:19	0.025	0.032	0.032	0.053
DOE 4.5.2.3	NP-237	OH207-7934-04	11/16/07 15:19	0.398	0.162	0.167	0.218
DOE 4.5.2.3	NP-239	OH207-7934-04	11/16/07 15:19	0.005	0.091	0.091	0.158
DOE 4.5.2.3	AM-241	OH207-7934-04	11/16/07 15:19	0.042	0.079	0.079	0.138
DOE 4.5.2.3	AM-243	OH207-7934-04	11/16/07 15:19	0.143	0.048	0.050	0.045
DOE 4.5.2.3	CM-243	OH207-7934-04	11/16/07 15:19	-0.009	0.049	0.049	0.081
DOE 4.5.2.3	AM-246	OH207-7934-04	11/16/07 15:19	0.037	0.042	0.042	0.080
DOE 4.5.2.3	CF-249	OH207-7934-04	11/16/07 15:19	0.004	0.017	0.017	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CA-SS-2195-SD				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7934	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-05	11/16/07 18:39	6.29	0.632	0.892	0.167
DOE 4.5.2.3	CO-60	OH207-7934-05	11/16/07 18:39	-0.014	0.016	0.016	0.022
DOE 4.5.2.3	RH-101	OH207-7934-05	11/16/07 18:39	1.4e-04	0.016	0.016	0.026
DOE 4.5.2.3	SB-125	OH207-7934-05	11/16/07 18:39	-0.028	0.041	0.041	0.068
DOE 4.5.2.3	CS-137	OH207-7934-05	11/16/07 18:39	0.019	0.017	0.017	0.031
DOE 4.5.2.3	EU-155	OH207-7934-05	11/16/07 18:39	0.049	0.059	0.059	0.102
DOE 4.5.2.3	TL-208	OH207-7934-05	11/16/07 18:39	0.351	0.049	0.061	0.025
DOE 4.5.2.3	PO-209	OH207-7934-05	11/16/07 18:39	-3.03	2.98	3.00	4.73
DOE 4.5.2.3	BI-211	OH207-7934-05	11/16/07 18:39	-0.372	0.436	0.437	0.717
DOE 4.5.2.3	BI-212	OH207-7934-05	11/16/07 18:39	0.877	0.232	0.248	0.201
DOE 4.5.2.3	PB-212	OH207-7934-05	11/16/07 18:39	0.958	0.090	0.132	0.042
DOE 4.5.2.3	BI-214	OH207-7934-05	11/16/07 18:39	0.722	0.098	0.122	0.051
DOE 4.5.2.3	PB-214	OH207-7934-05	11/16/07 18:39	0.774	0.092	0.120	0.050
DOE 4.5.2.3	RA-223	OH207-7934-05	11/16/07 18:39	0.402	0.138	0.144	0.129
DOE 4.5.2.3	AC-228	OH207-7934-05	11/16/07 18:39	1.07	0.138	0.175	0.098
DOE 4.5.2.3	PA-233	OH207-7934-05	11/16/07 18:39	0.017	0.027	0.027	0.048
DOE 4.5.2.3	PA-234M	OH207-7934-05	11/16/07 18:39	1.81	1.79	1.80	3.34
DOE 4.5.2.3	TH-234	OH207-7934-05	11/16/07 18:39	1.40	0.351	0.378	0.591
DOE 4.5.2.3	U-235	OH207-7934-05	11/16/07 18:39	2.7e-04	0.103	0.103	0.172
DOE 4.5.2.3	NP-236	OH207-7934-05	11/16/07 18:39	0.028	0.037	0.037	0.058
DOE 4.5.2.3	NP-237	OH207-7934-05	11/16/07 18:39	0.540	0.188	0.196	0.204
DOE 4.5.2.3	NP-239	OH207-7934-05	11/16/07 18:39	-0.051	0.107	0.107	0.171
DOE 4.5.2.3	AM-241	OH207-7934-05	11/16/07 18:39	-0.072	0.092	0.092	0.155
DOE 4.5.2.3	AM-243	OH207-7934-05	11/16/07 18:39	0.225	0.064	0.068	0.050
DOE 4.5.2.3	CM-243	OH207-7934-05	11/16/07 18:39	0.024	0.052	0.052	0.090
DOE 4.5.2.3	AM-246	OH207-7934-05	11/16/07 18:39	-0.010	0.054	0.054	0.091
DOE 4.5.2.3	CF-249	OH207-7934-05	11/16/07 18:39	-0.003	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CA-SS-2196-SD				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7934	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-06	11/16/07 18:41	5.78	0.588	0.825	0.214
DOE 4.5.2.3	CO-60	OH207-7934-06	11/16/07 18:41	0.014	0.015	0.016	0.021
DOE 4.5.2.3	RH-101	OH207-7934-06	11/16/07 18:41	0.012	0.016	0.016	0.027
DOE 4.5.2.3	SB-125	OH207-7934-06	11/16/07 18:41	0.002	0.041	0.041	0.069
DOE 4.5.2.3	CS-137	OH207-7934-06	11/16/07 18:41	0.156	0.034	0.037	0.030
DOE 4.5.2.3	EU-155	OH207-7934-06	11/16/07 18:41	0.044	0.057	0.057	0.097
DOE 4.5.2.3	TL-208	OH207-7934-06	11/16/07 18:41	0.338	0.051	0.061	0.025
DOE 4.5.2.3	PO-209	OH207-7934-06	11/16/07 18:41	-0.747	2.98	2.98	5.08
DOE 4.5.2.3	BI-211	OH207-7934-06	11/16/07 18:41	-0.093	0.424	0.425	0.728
DOE 4.5.2.3	BI-212	OH207-7934-06	11/16/07 18:41	0.657	0.249	0.258	0.185
DOE 4.5.2.3	PB-212	OH207-7934-06	11/16/07 18:41	0.891	0.084	0.123	0.045
DOE 4.5.2.3	BI-214	OH207-7934-06	11/16/07 18:41	0.741	0.107	0.130	0.051
DOE 4.5.2.3	PB-214	OH207-7934-06	11/16/07 18:41	0.838	0.095	0.127	0.049
DOE 4.5.2.3	RA-223	OH207-7934-06	11/16/07 18:41	0.197	0.103	0.105	0.126
DOE 4.5.2.3	AC-228	OH207-7934-06	11/16/07 18:41	1.08	0.166	0.198	0.083
DOE 4.5.2.3	PA-233	OH207-7934-06	11/16/07 18:41	0.015	0.027	0.027	0.047
DOE 4.5.2.3	PA-234M	OH207-7934-06	11/16/07 18:41	1.50	1.82	1.83	3.34
DOE 4.5.2.3	TH-234	OH207-7934-06	11/16/07 18:41	1.22	0.385	0.404	0.558
DOE 4.5.2.3	U-235	OH207-7934-06	11/16/07 18:41	0.099	0.101	0.102	0.170
DOE 4.5.2.3	NP-236	OH207-7934-06	11/16/07 18:41	0.052	0.033	0.034	0.058
DOE 4.5.2.3	NP-237	OH207-7934-06	11/16/07 18:41	0.455	0.177	0.183	0.220
DOE 4.5.2.3	NP-239	OH207-7934-06	11/16/07 18:41	0.047	0.099	0.099	0.174
DOE 4.5.2.3	AM-241	OH207-7934-06	11/16/07 18:41	-0.022	0.083	0.083	0.141
DOE 4.5.2.3	AM-243	OH207-7934-06	11/16/07 18:41	0.211	0.059	0.062	0.047
DOE 4.5.2.3	CM-243	OH207-7934-06	11/16/07 18:41	0.015	0.051	0.051	0.086
DOE 4.5.2.3	AM-246	OH207-7934-06	11/16/07 18:41	-0.011	0.050	0.051	0.086
DOE 4.5.2.3	CF-249	OH207-7934-06	11/16/07 18:41	0.007	0.018	0.018	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CA-SS-2197-SD				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7934	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-07	11/16/07 18:42	6.50	0.714	0.966	0.228
DOE 4.5.2.3	CO-60	OH207-7934-07	11/16/07 18:42	-0.002	0.019	0.019	0.029
DOE 4.5.2.3	RH-101	OH207-7934-07	11/16/07 18:42	0.010	0.018	0.018	0.031
DOE 4.5.2.3	SB-125	OH207-7934-07	11/16/07 18:42	0.017	0.046	0.046	0.081
DOE 4.5.2.3	CS-137	OH207-7934-07	11/16/07 18:42	0.033	0.024	0.024	0.032
DOE 4.5.2.3	EU-155	OH207-7934-07	11/16/07 18:42	0.042	0.053	0.053	0.092
DOE 4.5.2.3	TL-208	OH207-7934-07	11/16/07 18:42	0.332	0.048	0.059	0.030
DOE 4.5.2.3	PO-209	OH207-7934-07	11/16/07 18:42	0.367	3.32	3.32	5.94
DOE 4.5.2.3	BI-211	OH207-7934-07	11/16/07 18:42	0.035	0.545	0.545	0.930
DOE 4.5.2.3	BI-212	OH207-7934-07	11/16/07 18:42	0.618	0.250	0.258	0.219
DOE 4.5.2.3	PB-212	OH207-7934-07	11/16/07 18:42	1.03	0.096	0.141	0.050
DOE 4.5.2.3	BI-214	OH207-7934-07	11/16/07 18:42	0.735	0.097	0.121	0.056
DOE 4.5.2.3	PB-214	OH207-7934-07	11/16/07 18:42	0.742	0.095	0.121	0.061
DOE 4.5.2.3	RA-223	OH207-7934-07	11/16/07 18:42	0.476	0.194	0.200	0.150
DOE 4.5.2.3	AC-228	OH207-7934-07	11/16/07 18:42	0.946	0.176	0.199	0.103
DOE 4.5.2.3	PA-233	OH207-7934-07	11/16/07 18:42	0.019	0.032	0.032	0.055
DOE 4.5.2.3	PA-234M	OH207-7934-07	11/16/07 18:42	2.32	2.20	2.22	4.15
DOE 4.5.2.3	TH-234	OH207-7934-07	11/16/07 18:42	0.601	0.426	0.430	0.388
DOE 4.5.2.3	U-235	OH207-7934-07	11/16/07 18:42	0.161	0.111	0.112	0.194
DOE 4.5.2.3	NP-236	OH207-7934-07	11/16/07 18:42	0.048	0.034	0.035	0.051
DOE 4.5.2.3	NP-237	OH207-7934-07	11/16/07 18:42	0.443	0.123	0.131	0.158
DOE 4.5.2.3	NP-239	OH207-7934-07	11/16/07 18:42	-0.058	0.123	0.123	0.203
DOE 4.5.2.3	AM-241	OH207-7934-07	11/16/07 18:42	0.035	0.035	0.035	0.053
DOE 4.5.2.3	AM-243	OH207-7934-07	11/16/07 18:42	0.157	0.042	0.045	0.030
DOE 4.5.2.3	CM-243	OH207-7934-07	11/16/07 18:42	-0.014	0.047	0.047	0.080
DOE 4.5.2.3	AM-246	OH207-7934-07	11/16/07 18:42	0.040	0.062	0.062	0.114
DOE 4.5.2.3	CF-249	OH207-7934-07	11/16/07 18:42	0.004	0.020	0.020	0.035

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CA-SS-2198-SD				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7934	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-08	11/16/07 22:01	5.88	0.614	0.850	0.236
DOE 4.5.2.3	CO-60	OH207-7934-08	11/16/07 22:01	-0.003	0.021	0.021	0.031
DOE 4.5.2.3	RH-101	OH207-7934-08	11/16/07 22:01	-0.008	0.020	0.020	0.033
DOE 4.5.2.3	SB-125	OH207-7934-08	11/16/07 22:01	-0.017	0.051	0.051	0.088
DOE 4.5.2.3	CS-137	OH207-7934-08	11/16/07 22:01	-0.014	0.022	0.022	0.036
DOE 4.5.2.3	EU-155	OH207-7934-08	11/16/07 22:01	0.074	0.058	0.059	0.102
DOE 4.5.2.3	TL-208	OH207-7934-08	11/16/07 22:01	0.397	0.054	0.067	0.036
DOE 4.5.2.3	PO-209	OH207-7934-08	11/16/07 22:01	0.135	3.56	3.56	6.34
DOE 4.5.2.3	BI-211	OH207-7934-08	11/16/07 22:01	-0.146	0.586	0.586	0.980
DOE 4.5.2.3	BI-212	OH207-7934-08	11/16/07 22:01	0.746	0.226	0.238	0.261
DOE 4.5.2.3	PB-212	OH207-7934-08	11/16/07 22:01	1.35	0.121	0.182	0.053
DOE 4.5.2.3	BI-214	OH207-7934-08	11/16/07 22:01	0.750	0.100	0.125	0.061
DOE 4.5.2.3	PB-214	OH207-7934-08	11/16/07 22:01	0.782	0.108	0.133	0.062
DOE 4.5.2.3	RA-223	OH207-7934-08	11/16/07 22:01	0.425	0.186	0.191	0.175
DOE 4.5.2.3	AC-228	OH207-7934-08	11/16/07 22:01	1.39	0.202	0.245	0.115
DOE 4.5.2.3	PA-233	OH207-7934-08	11/16/07 22:01	0.017	0.034	0.034	0.057
DOE 4.5.2.3	PA-234M	OH207-7934-08	11/16/07 22:01	-0.738	2.27	2.27	3.93
DOE 4.5.2.3	TH-234	OH207-7934-08	11/16/07 22:01	1.52	0.402	0.430	0.397
DOE 4.5.2.3	U-235	OH207-7934-08	11/16/07 22:01	0.024	0.120	0.120	0.204
DOE 4.5.2.3	NP-236	OH207-7934-08	11/16/07 22:01	0.008	0.038	0.038	0.055
DOE 4.5.2.3	NP-237	OH207-7934-08	11/16/07 22:01	0.731	0.188	0.202	0.172
DOE 4.5.2.3	NP-239	OH207-7934-08	11/16/07 22:01	0.004	0.125	0.125	0.211
DOE 4.5.2.3	AM-241	OH207-7934-08	11/16/07 22:01	0.009	0.043	0.043	0.062
DOE 4.5.2.3	AM-243	OH207-7934-08	11/16/07 22:01	0.220	0.053	0.057	0.035
DOE 4.5.2.3	CM-243	OH207-7934-08	11/16/07 22:01	0.005	0.053	0.053	0.091
DOE 4.5.2.3	AM-246	OH207-7934-08	11/16/07 22:01	0.048	0.065	0.065	0.121
DOE 4.5.2.3	CF-249	OH207-7934-08	11/16/07 22:01	0.010	0.022	0.022	0.038

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah	Chain-of-Custody Number: COC #27/07-3080.04		Matrix: Soil
Site Sample ID: SB-CA-SS-2199-SD			
Other Sample ID:	Collection Date: 9/26/2007	Date Received:	9/27/2007 8:45:00
	Batch Number: 7934	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-09	11/17/07 09:23	4.48	0.547	0.706	0.216
DOE 4.5.2.3	CO-60	OH207-7934-09	11/17/07 09:23	-0.016	0.015	0.015	0.025
DOE 4.5.2.3	RH-101	OH207-7934-09	11/17/07 09:23	-0.010	0.017	0.017	0.027
DOE 4.5.2.3	SB-125	OH207-7934-09	11/17/07 09:23	0.005	0.046	0.046	0.078
DOE 4.5.2.3	CS-137	OH207-7934-09	11/17/07 09:23	0.087	0.035	0.036	0.030
DOE 4.5.2.3	EU-155	OH207-7934-09	11/17/07 09:23	0.123	0.064	0.065	0.111
DOE 4.5.2.3	TL-208	OH207-7934-09	11/17/07 09:23	0.371	0.054	0.065	0.028
DOE 4.5.2.3	PO-209	OH207-7934-09	11/17/07 09:23	-0.271	2.86	2.86	4.97
DOE 4.5.2.3	BI-211	OH207-7934-09	11/17/07 09:23	0.540	0.451	0.454	0.772
DOE 4.5.2.3	BI-212	OH207-7934-09	11/17/07 09:23	0.632	0.230	0.238	0.230
DOE 4.5.2.3	PB-212	OH207-7934-09	11/17/07 09:23	1.09	0.099	0.148	0.044
DOE 4.5.2.3	BI-214	OH207-7934-09	11/17/07 09:23	0.876	0.125	0.152	0.052
DOE 4.5.2.3	PB-214	OH207-7934-09	11/17/07 09:23	0.766	0.096	0.122	0.052
DOE 4.5.2.3	RA-223	OH207-7934-09	11/17/07 09:23	0.329	0.136	0.140	0.141
DOE 4.5.2.3	AC-228	OH207-7934-09	11/17/07 09:23	1.21	0.172	0.211	0.092
DOE 4.5.2.3	PA-233	OH207-7934-09	11/17/07 09:23	-0.016	0.028	0.028	0.047
DOE 4.5.2.3	PA-234M	OH207-7934-09	11/17/07 09:23	0.692	1.85	1.85	3.32
DOE 4.5.2.3	TH-234	OH207-7934-09	11/17/07 09:23	1.72	0.446	0.478	0.449
DOE 4.5.2.3	U-235	OH207-7934-09	11/17/07 09:23	0.123	0.109	0.110	0.184
DOE 4.5.2.3	NP-236	OH207-7934-09	11/17/07 09:23	0.049	0.039	0.039	0.061
DOE 4.5.2.3	NP-237	OH207-7934-09	11/17/07 09:23	0.793	0.216	0.230	0.212
DOE 4.5.2.3	NP-239	OH207-7934-09	11/17/07 09:23	-0.020	0.104	0.104	0.179
DOE 4.5.2.3	AM-241	OH207-7934-09	11/17/07 09:23	-0.006	0.103	0.103	0.158
DOE 4.5.2.3	AM-243	OH207-7934-09	11/17/07 09:23	0.257	0.068	0.073	0.053
DOE 4.5.2.3	CM-243	OH207-7934-09	11/17/07 09:23	0.015	0.057	0.057	0.096
DOE 4.5.2.3	AM-246	OH207-7934-09	11/17/07 09:23	0.022	0.049	0.049	0.089
DOE 4.5.2.3	CF-249	OH207-7934-09	11/17/07 09:23	0.015	0.019	0.019	0.033

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CA-SS-2200-SD				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7934	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-10	11/17/07 09:25	5.01	0.576	0.763	0.255
DOE 4.5.2.3	CO-60	OH207-7934-10	11/17/07 09:25	-0.001	0.018	0.018	0.028
DOE 4.5.2.3	RH-101	OH207-7934-10	11/17/07 09:25	-0.002	0.019	0.019	0.031
DOE 4.5.2.3	SB-125	OH207-7934-10	11/17/07 09:25	0.015	0.047	0.047	0.083
DOE 4.5.2.3	CS-137	OH207-7934-10	11/17/07 09:25	0.077	0.027	0.028	0.032
DOE 4.5.2.3	EU-155	OH207-7934-10	11/17/07 09:25	0.042	0.053	0.053	0.092
DOE 4.5.2.3	TL-208	OH207-7934-10	11/17/07 09:25	0.333	0.046	0.057	0.029
DOE 4.5.2.3	PO-209	OH207-7934-10	11/17/07 09:25	-1.30	3.50	3.50	6.03
DOE 4.5.2.3	BI-211	OH207-7934-10	11/17/07 09:25	-0.445	0.557	0.559	0.894
DOE 4.5.2.3	BI-212	OH207-7934-10	11/17/07 09:25	0.691	0.272	0.280	0.224
DOE 4.5.2.3	PB-212	OH207-7934-10	11/17/07 09:25	0.956	0.092	0.133	0.050
DOE 4.5.2.3	BI-214	OH207-7934-10	11/17/07 09:25	0.779	0.095	0.123	0.058
DOE 4.5.2.3	PB-214	OH207-7934-10	11/17/07 09:25	0.759	0.104	0.129	0.061
DOE 4.5.2.3	RA-223	OH207-7934-10	11/17/07 09:25	0.244	0.144	0.146	0.146
DOE 4.5.2.3	AC-228	OH207-7934-10	11/17/07 09:25	1.11	0.165	0.199	0.115
DOE 4.5.2.3	PA-233	OH207-7934-10	11/17/07 09:25	0.007	0.034	0.034	0.057
DOE 4.5.2.3	PA-234M	OH207-7934-10	11/17/07 09:25	1.04	2.09	2.09	3.84
DOE 4.5.2.3	TH-234	OH207-7934-10	11/17/07 09:25	1.20	0.360	0.380	0.360
DOE 4.5.2.3	U-235	OH207-7934-10	11/17/07 09:25	-0.060	0.112	0.112	0.187
DOE 4.5.2.3	NP-236	OH207-7934-10	11/17/07 09:25	0.014	0.034	0.034	0.050
DOE 4.5.2.3	NP-237	OH207-7934-10	11/17/07 09:25	0.506	0.153	0.161	0.156
DOE 4.5.2.3	NP-239	OH207-7934-10	11/17/07 09:25	-0.018	0.118	0.118	0.198
DOE 4.5.2.3	AM-241	OH207-7934-10	11/17/07 09:25	0.066	0.037	0.037	0.056
DOE 4.5.2.3	AM-243	OH207-7934-10	11/17/07 09:25	0.152	0.041	0.044	0.031
DOE 4.5.2.3	CM-243	OH207-7934-10	11/17/07 09:25	-0.019	0.047	0.047	0.080
DOE 4.5.2.3	AM-246	OH207-7934-10	11/17/07 09:25	0.050	0.060	0.060	0.112
DOE 4.5.2.3	CF-249	OH207-7934-10	11/17/07 09:25	0.021	0.020	0.020	0.036

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil

Site Sample ID: SB-CA-SS-2201-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7934 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-11	11/17/07 12:22	6.88	0.681	0.968	0.202
DOE 4.5.2.3	CO-60	OH207-7934-11	11/17/07 12:22	0.003	0.017	0.017	0.025
DOE 4.5.2.3	RH-101	OH207-7934-11	11/17/07 12:22	0.005	0.017	0.017	0.029
DOE 4.5.2.3	SB-125	OH207-7934-11	11/17/07 12:22	-3.1e-04	0.043	0.043	0.073
DOE 4.5.2.3	CS-137	OH207-7934-11	11/17/07 12:22	0.059	0.028	0.028	0.029
DOE 4.5.2.3	EU-155	OH207-7934-11	11/17/07 12:22	0.028	0.062	0.062	0.106
DOE 4.5.2.3	TL-208	OH207-7934-11	11/17/07 12:22	0.382	0.057	0.068	0.026
DOE 4.5.2.3	PO-209	OH207-7934-11	11/17/07 12:22	-0.373	3.34	3.34	5.76
DOE 4.5.2.3	BI-211	OH207-7934-11	11/17/07 12:22	0.048	0.471	0.471	0.727
DOE 4.5.2.3	BI-212	OH207-7934-11	11/17/07 12:22	0.867	0.214	0.231	0.196
DOE 4.5.2.3	PB-212	OH207-7934-11	11/17/07 12:22	1.20	0.108	0.161	0.045
DOE 4.5.2.3	BI-214	OH207-7934-11	11/17/07 12:22	0.865	0.115	0.144	0.048
DOE 4.5.2.3	PB-214	OH207-7934-11	11/17/07 12:22	0.878	0.108	0.140	0.053
DOE 4.5.2.3	RA-223	OH207-7934-11	11/17/07 12:22	0.461	0.172	0.178	0.140
DOE 4.5.2.3	AC-228	OH207-7934-11	11/17/07 12:22	1.40	0.165	0.217	0.095
DOE 4.5.2.3	PA-233	OH207-7934-11	11/17/07 12:22	0.016	0.030	0.030	0.052
DOE 4.5.2.3	PA-234M	OH207-7934-11	11/17/07 12:22	1.20	1.96	1.96	3.55
DOE 4.5.2.3	TH-234	OH207-7934-11	11/17/07 12:22	1.60	0.477	0.503	0.631
DOE 4.5.2.3	U-235	OH207-7934-11	11/17/07 12:22	0.027	0.111	0.111	0.185
DOE 4.5.2.3	NP-236	OH207-7934-11	11/17/07 12:22	4.1e-04	0.038	0.038	0.062
DOE 4.5.2.3	NP-237	OH207-7934-11	11/17/07 12:22	0.743	0.214	0.227	0.223
DOE 4.5.2.3	NP-239	OH207-7934-11	11/17/07 12:22	0.019	0.112	0.113	0.184
DOE 4.5.2.3	AM-241	OH207-7934-11	11/17/07 12:22	-0.005	0.103	0.103	0.178
DOE 4.5.2.3	AM-243	OH207-7934-11	11/17/07 12:22	0.249	0.071	0.076	0.055
DOE 4.5.2.3	CM-243	OH207-7934-11	11/17/07 12:22	-0.009	0.057	0.057	0.096
DOE 4.5.2.3	AM-246	OH207-7934-11	11/17/07 12:22	-0.027	0.054	0.054	0.090
DOE 4.5.2.3	CF-249	OH207-7934-11	11/17/07 12:22	0.010	0.018	0.018	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah	Chain-of-Custody Number: COC #27/07-3080.04		Matrix: Soil
Site Sample ID: SB-CA-SS-2202-SD			
Other Sample ID:	Collection Date: 9/26/2007	Date Received:	9/27/2007 8:45:00
	Batch Number: 7934	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-12	11/17/07 12:27	3.87	0.501	0.633	0.205
DOE 4.5.2.3	CO-60	OH207-7934-12	11/17/07 12:27	-0.005	0.017	0.017	0.027
DOE 4.5.2.3	RH-101	OH207-7934-12	11/17/07 12:27	-0.010	0.018	0.018	0.029
DOE 4.5.2.3	SB-125	OH207-7934-12	11/17/07 12:27	0.018	0.045	0.045	0.079
DOE 4.5.2.3	CS-137	OH207-7934-12	11/17/07 12:27	0.039	0.024	0.024	0.032
DOE 4.5.2.3	EU-155	OH207-7934-12	11/17/07 12:27	0.074	0.064	0.065	0.110
DOE 4.5.2.3	TL-208	OH207-7934-12	11/17/07 12:27	0.386	0.060	0.071	0.029
DOE 4.5.2.3	PO-209	OH207-7934-12	11/17/07 12:27	2.24	3.26	3.27	5.99
DOE 4.5.2.3	BI-211	OH207-7934-12	11/17/07 12:27	0.346	0.540	0.541	0.876
DOE 4.5.2.3	BI-212	OH207-7934-12	11/17/07 12:27	0.762	0.255	0.266	0.217
DOE 4.5.2.3	PB-212	OH207-7934-12	11/17/07 12:27	1.08	0.101	0.148	0.049
DOE 4.5.2.3	BI-214	OH207-7934-12	11/17/07 12:27	0.516	0.093	0.106	0.056
DOE 4.5.2.3	PB-214	OH207-7934-12	11/17/07 12:27	0.602	0.090	0.108	0.057
DOE 4.5.2.3	RA-223	OH207-7934-12	11/17/07 12:27	0.098	0.116	0.116	0.145
DOE 4.5.2.3	AC-228	OH207-7934-12	11/17/07 12:27	1.50	0.203	0.252	0.098
DOE 4.5.2.3	PA-233	OH207-7934-12	11/17/07 12:27	0.037	0.032	0.032	0.057
DOE 4.5.2.3	PA-234M	OH207-7934-12	11/17/07 12:27	1.14	1.97	1.97	3.61
DOE 4.5.2.3	TH-234	OH207-7934-12	11/17/07 12:27	1.80	0.595	0.622	0.457
DOE 4.5.2.3	U-235	OH207-7934-12	11/17/07 12:27	0.063	0.115	0.115	0.193
DOE 4.5.2.3	NP-236	OH207-7934-12	11/17/07 12:27	0.080	0.040	0.041	0.067
DOE 4.5.2.3	NP-237	OH207-7934-12	11/17/07 12:27	0.572	0.208	0.216	0.255
DOE 4.5.2.3	NP-239	OH207-7934-12	11/17/07 12:27	0.052	0.111	0.111	0.196
DOE 4.5.2.3	AM-241	OH207-7934-12	11/17/07 12:27	-0.016	0.107	0.107	0.163
DOE 4.5.2.3	AM-243	OH207-7934-12	11/17/07 12:27	0.259	0.070	0.075	0.056
DOE 4.5.2.3	CM-243	OH207-7934-12	11/17/07 12:27	0.004	0.057	0.057	0.096
DOE 4.5.2.3	AM-246	OH207-7934-12	11/17/07 12:27	-0.006	0.055	0.055	0.095
DOE 4.5.2.3	CF-249	OH207-7934-12	11/17/07 12:27	-0.007	0.020	0.020	0.033

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CA-SS-2203-SD
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7934 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-13	11/17/07 12:28	5.15	0.612	0.800	0.278
DOE 4.5.2.3	CO-60	OH207-7934-13	11/17/07 12:28	-0.014	0.018	0.018	0.029
DOE 4.5.2.3	RH-101	OH207-7934-13	11/17/07 12:28	1.1e-04	0.019	0.019	0.032
DOE 4.5.2.3	SB-125	OH207-7934-13	11/17/07 12:28	0.003	0.047	0.047	0.082
DOE 4.5.2.3	CS-137	OH207-7934-13	11/17/07 12:28	0.125	0.036	0.039	0.036
DOE 4.5.2.3	EU-155	OH207-7934-13	11/17/07 12:28	0.065	0.054	0.054	0.095
DOE 4.5.2.3	TL-208	OH207-7934-13	11/17/07 12:28	0.313	0.054	0.062	0.030
DOE 4.5.2.3	PO-209	OH207-7934-13	11/17/07 12:28	2.70	3.49	3.50	6.45
DOE 4.5.2.3	BI-211	OH207-7934-13	11/17/07 12:28	-0.456	0.559	0.561	0.896
DOE 4.5.2.3	BI-212	OH207-7934-13	11/17/07 12:28	0.697	0.256	0.266	0.272
DOE 4.5.2.3	PB-212	OH207-7934-13	11/17/07 12:28	1.00	0.096	0.139	0.050
DOE 4.5.2.3	BI-214	OH207-7934-13	11/17/07 12:28	0.842	0.102	0.133	0.059
DOE 4.5.2.3	PB-214	OH207-7934-13	11/17/07 12:28	0.859	0.109	0.139	0.061
DOE 4.5.2.3	RA-223	OH207-7934-13	11/17/07 12:28	0.300	0.164	0.167	0.158
DOE 4.5.2.3	AC-228	OH207-7934-13	11/17/07 12:28	1.02	0.187	0.213	0.124
DOE 4.5.2.3	PA-233	OH207-7934-13	11/17/07 12:28	0.007	0.034	0.034	0.058
DOE 4.5.2.3	PA-234M	OH207-7934-13	11/17/07 12:28	0.663	2.04	2.04	3.72
DOE 4.5.2.3	TH-234	OH207-7934-13	11/17/07 12:28	1.15	0.383	0.400	0.371
DOE 4.5.2.3	U-235	OH207-7934-13	11/17/07 12:28	-0.025	0.111	0.111	0.187
DOE 4.5.2.3	NP-236	OH207-7934-13	11/17/07 12:28	0.040	0.036	0.036	0.053
DOE 4.5.2.3	NP-237	OH207-7934-13	11/17/07 12:28	0.530	0.146	0.155	0.161
DOE 4.5.2.3	NP-239	OH207-7934-13	11/17/07 12:28	-0.041	0.120	0.120	0.200
DOE 4.5.2.3	AM-241	OH207-7934-13	11/17/07 12:28	0.020	0.036	0.036	0.053
DOE 4.5.2.3	AM-243	OH207-7934-13	11/17/07 12:28	0.192	0.050	0.054	0.031
DOE 4.5.2.3	CM-243	OH207-7934-13	11/17/07 12:28	-0.015	0.049	0.049	0.083
DOE 4.5.2.3	AM-246	OH207-7934-13	11/17/07 12:28	0.052	0.061	0.061	0.115
DOE 4.5.2.3	CF-249	OH207-7934-13	11/17/07 12:28	-0.014	0.021	0.021	0.036

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CA-SS-2204-SD
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7934 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7934-14	11/17/07 15:36	5.58	0.566	0.795	0.186
DOE 4.5.2.3	CO-60	OH207-7934-14	11/17/07 15:36	-0.003	0.014	0.014	0.018
DOE 4.5.2.3	RH-101	OH207-7934-14	11/17/07 15:36	-0.007	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7934-14	11/17/07 15:36	-0.020	0.035	0.035	0.059
DOE 4.5.2.3	CS-137	OH207-7934-14	11/17/07 15:36	0.035	0.022	0.022	0.027
DOE 4.5.2.3	EU-155	OH207-7934-14	11/17/07 15:36	0.059	0.054	0.054	0.094
DOE 4.5.2.3	TL-208	OH207-7934-14	11/17/07 15:36	0.288	0.044	0.052	0.024
DOE 4.5.2.3	PO-209	OH207-7934-14	11/17/07 15:36	0.937	2.54	2.54	4.58
DOE 4.5.2.3	BI-211	OH207-7934-14	11/17/07 15:36	-0.379	0.423	0.425	0.694
DOE 4.5.2.3	BI-212	OH207-7934-14	11/17/07 15:36	0.645	0.182	0.193	0.183
DOE 4.5.2.3	PB-212	OH207-7934-14	11/17/07 15:36	0.830	0.080	0.115	0.040
DOE 4.5.2.3	BI-214	OH207-7934-14	11/17/07 15:36	0.679	0.099	0.120	0.042
DOE 4.5.2.3	PB-214	OH207-7934-14	11/17/07 15:36	0.774	0.095	0.122	0.047
DOE 4.5.2.3	RA-223	OH207-7934-14	11/17/07 15:36	0.384	0.127	0.133	0.120
DOE 4.5.2.3	AC-228	OH207-7934-14	11/17/07 15:36	0.966	0.147	0.176	0.093
DOE 4.5.2.3	PA-233	OH207-7934-14	11/17/07 15:36	0.010	0.025	0.025	0.044
DOE 4.5.2.3	PA-234M	OH207-7934-14	11/17/07 15:36	0.509	1.52	1.52	2.74
DOE 4.5.2.3	TH-234	OH207-7934-14	11/17/07 15:36	1.36	0.430	0.450	0.531
DOE 4.5.2.3	U-235	OH207-7934-14	11/17/07 15:36	0.077	0.096	0.096	0.163
DOE 4.5.2.3	NP-236	OH207-7934-14	11/17/07 15:36	0.027	0.034	0.034	0.054
DOE 4.5.2.3	NP-237	OH207-7934-14	11/17/07 15:36	0.627	0.193	0.203	0.187
DOE 4.5.2.3	NP-239	OH207-7934-14	11/17/07 15:36	0.042	0.095	0.095	0.157
DOE 4.5.2.3	AM-241	OH207-7934-14	11/17/07 15:36	-0.025	0.083	0.083	0.144
DOE 4.5.2.3	AM-243	OH207-7934-14	11/17/07 15:36	0.150	0.051	0.053	0.047
DOE 4.5.2.3	CM-243	OH207-7934-14	11/17/07 15:36	0.033	0.049	0.049	0.084
DOE 4.5.2.3	AM-246	OH207-7934-14	11/17/07 15:36	0.032	0.047	0.047	0.085
DOE 4.5.2.3	CF-249	OH207-7934-14	11/17/07 15:36	0.004	0.017	0.017	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil

Site Sample ID: SB-CA-SS-2205-ST

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7935 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7935-01	11/18/07 08:50	4.89	0.521	0.714	0.176
DOE 4.5.2.3	CO-60	OH207-7935-01	11/18/07 08:50	-0.010	0.014	0.014	0.023
DOE 4.5.2.3	RH-101	OH207-7935-01	11/18/07 08:50	-0.009	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7935-01	11/18/07 08:50	0.013	0.038	0.038	0.067
DOE 4.5.2.3	CS-137	OH207-7935-01	11/18/07 08:50	0.155	0.032	0.036	0.028
DOE 4.5.2.3	EU-155	OH207-7935-01	11/18/07 08:50	0.074	0.056	0.057	0.098
DOE 4.5.2.3	TL-208	OH207-7935-01	11/18/07 08:50	0.310	0.047	0.057	0.024
DOE 4.5.2.3	PO-209	OH207-7935-01	11/18/07 08:50	-0.977	2.68	2.68	4.57
DOE 4.5.2.3	BI-211	OH207-7935-01	11/18/07 08:50	0.001	0.390	0.390	0.687
DOE 4.5.2.3	BI-212	OH207-7935-01	11/18/07 08:50	0.556	0.181	0.189	0.192
DOE 4.5.2.3	PB-212	OH207-7935-01	11/18/07 08:50	0.804	0.078	0.112	0.041
DOE 4.5.2.3	BI-214	OH207-7935-01	11/18/07 08:50	0.684	0.095	0.117	0.049
DOE 4.5.2.3	PB-214	OH207-7935-01	11/18/07 08:50	0.688	0.086	0.110	0.047
DOE 4.5.2.3	RA-223	OH207-7935-01	11/18/07 08:50	0.280	0.131	0.134	0.122
DOE 4.5.2.3	AC-228	OH207-7935-01	11/18/07 08:50	0.937	0.128	0.159	0.086
DOE 4.5.2.3	PA-233	OH207-7935-01	11/18/07 08:50	0.024	0.027	0.027	0.049
DOE 4.5.2.3	PA-234M	OH207-7935-01	11/18/07 08:50	0.827	1.57	1.57	2.89
DOE 4.5.2.3	TH-234	OH207-7935-01	11/18/07 08:50	1.07	0.370	0.385	0.548
DOE 4.5.2.3	U-235	OH207-7935-01	11/18/07 08:50	0.014	0.094	0.094	0.157
DOE 4.5.2.3	NP-236	OH207-7935-01	11/18/07 08:50	0.009	0.035	0.035	0.054
DOE 4.5.2.3	NP-237	OH207-7935-01	11/18/07 08:50	0.510	0.162	0.169	0.224
DOE 4.5.2.3	NP-239	OH207-7935-01	11/18/07 08:50	0.080	0.098	0.099	0.165
DOE 4.5.2.3	AM-241	OH207-7935-01	11/18/07 08:50	0.036	0.089	0.089	0.156
DOE 4.5.2.3	AM-243	OH207-7935-01	11/18/07 08:50	0.158	0.050	0.053	0.049
DOE 4.5.2.3	CM-243	OH207-7935-01	11/18/07 08:50	-0.006	0.051	0.051	0.086
DOE 4.5.2.3	AM-246	OH207-7935-01	11/18/07 08:50	-0.003	0.046	0.046	0.080
DOE 4.5.2.3	CF-249	OH207-7935-01	11/18/07 08:50	0.007	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7935-LC1	SCAQC-7935-LD1		SCAQC-7935-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil

Site Sample ID: SB-CA-SS-2206-ST

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7935 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7935-02	11/18/07 08:52	2.37	0.357	0.429	0.180
DOE 4.5.2.3	CO-60	OH207-7935-02	11/18/07 08:52	-0.001	0.014	0.014	0.024
DOE 4.5.2.3	RH-101	OH207-7935-02	11/18/07 08:52	0.016	0.016	0.016	0.026
DOE 4.5.2.3	SB-125	OH207-7935-02	11/18/07 08:52	0.054	0.040	0.041	0.073
DOE 4.5.2.3	CS-137	OH207-7935-02	11/18/07 08:52	0.154	0.032	0.035	0.029
DOE 4.5.2.3	EU-155	OH207-7935-02	11/18/07 08:52	0.019	0.054	0.054	0.092
DOE 4.5.2.3	TL-208	OH207-7935-02	11/18/07 08:52	0.279	0.046	0.054	0.026
DOE 4.5.2.3	PO-209	OH207-7935-02	11/18/07 08:52	-1.53	2.63	2.63	4.35
DOE 4.5.2.3	BI-211	OH207-7935-02	11/18/07 08:52	-0.328	0.424	0.426	0.696
DOE 4.5.2.3	BI-212	OH207-7935-02	11/18/07 08:52	0.575	0.182	0.191	0.183
DOE 4.5.2.3	PB-212	OH207-7935-02	11/18/07 08:52	0.863	0.082	0.119	0.040
DOE 4.5.2.3	BI-214	OH207-7935-02	11/18/07 08:52	0.514	0.083	0.098	0.048
DOE 4.5.2.3	PB-214	OH207-7935-02	11/18/07 08:52	0.594	0.078	0.098	0.047
DOE 4.5.2.3	RA-223	OH207-7935-02	11/18/07 08:52	0.390	0.129	0.135	0.127
DOE 4.5.2.3	AC-228	OH207-7935-02	11/18/07 08:52	0.919	0.161	0.185	0.086
DOE 4.5.2.3	PA-233	OH207-7935-02	11/18/07 08:52	-0.002	0.026	0.026	0.045
DOE 4.5.2.3	PA-234M	OH207-7935-02	11/18/07 08:52	1.72	1.53	1.54	2.98
DOE 4.5.2.3	TH-234	OH207-7935-02	11/18/07 08:52	1.48	0.407	0.433	0.564
DOE 4.5.2.3	U-235	OH207-7935-02	11/18/07 08:52	0.052	0.098	0.098	0.164
DOE 4.5.2.3	NP-236	OH207-7935-02	11/18/07 08:52	0.011	0.032	0.032	0.052
DOE 4.5.2.3	NP-237	OH207-7935-02	11/18/07 08:52	0.601	0.174	0.184	0.191
DOE 4.5.2.3	NP-239	OH207-7935-02	11/18/07 08:52	-0.024	0.094	0.094	0.162
DOE 4.5.2.3	AM-241	OH207-7935-02	11/18/07 08:52	-0.029	0.081	0.081	0.136
DOE 4.5.2.3	AM-243	OH207-7935-02	11/18/07 08:52	0.194	0.055	0.058	0.046
DOE 4.5.2.3	CM-243	OH207-7935-02	11/18/07 08:52	0.014	0.049	0.049	0.083
DOE 4.5.2.3	AM-246	OH207-7935-02	11/18/07 08:52	0.004	0.049	0.049	0.086
DOE 4.5.2.3	CF-249	OH207-7935-02	11/18/07 08:52	0.018	0.017	0.017	0.031

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7935-LC1	SCAQC-7935-LD1		SCAQC-7935-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil

Site Sample ID: SB-CA-SS-2207-ST

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7935 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7935-03	11/18/07 08:53	3.96	0.483	0.624	0.258
DOE 4.5.2.3	CO-60	OH207-7935-03	11/18/07 08:53	0.008	0.019	0.019	0.026
DOE 4.5.2.3	RH-101	OH207-7935-03	11/18/07 08:53	2.9e-04	0.016	0.016	0.028
DOE 4.5.2.3	SB-125	OH207-7935-03	11/18/07 08:53	-0.021	0.045	0.045	0.076
DOE 4.5.2.3	CS-137	OH207-7935-03	11/18/07 08:53	0.281	0.044	0.052	0.031
DOE 4.5.2.3	EU-155	OH207-7935-03	11/18/07 08:53	0.010	0.045	0.045	0.079
DOE 4.5.2.3	TL-208	OH207-7935-03	11/18/07 08:53	0.178	0.040	0.043	0.028
DOE 4.5.2.3	PO-209	OH207-7935-03	11/18/07 08:53	1.32	3.16	3.16	5.87
DOE 4.5.2.3	BI-211	OH207-7935-03	11/18/07 08:53	-0.081	0.473	0.473	0.806
DOE 4.5.2.3	BI-212	OH207-7935-03	11/18/07 08:53	0.346	0.150	0.154	0.294
DOE 4.5.2.3	PB-212	OH207-7935-03	11/18/07 08:53	0.407	0.070	0.081	0.053
DOE 4.5.2.3	BI-214	OH207-7935-03	11/18/07 08:53	0.386	0.080	0.089	0.056
DOE 4.5.2.3	PB-214	OH207-7935-03	11/18/07 08:53	0.370	0.079	0.088	0.056
DOE 4.5.2.3	RA-223	OH207-7935-03	11/18/07 08:53	0.170	0.089	0.091	0.160
DOE 4.5.2.3	AC-228	OH207-7935-03	11/18/07 08:53	0.412	0.136	0.142	0.103
DOE 4.5.2.3	PA-233	OH207-7935-03	11/18/07 08:53	-0.001	0.030	0.030	0.051
DOE 4.5.2.3	PA-234M	OH207-7935-03	11/18/07 08:53	-1.41	1.91	1.92	3.23
DOE 4.5.2.3	TH-234	OH207-7935-03	11/18/07 08:53	0.939	0.325	0.338	0.305
DOE 4.5.2.3	U-235	OH207-7935-03	11/18/07 08:53	0.027	0.097	0.097	0.166
DOE 4.5.2.3	NP-236	OH207-7935-03	11/18/07 08:53	0.028	0.030	0.030	0.045
DOE 4.5.2.3	NP-237	OH207-7935-03	11/18/07 08:53	0.396	0.142	0.147	0.133
DOE 4.5.2.3	NP-239	OH207-7935-03	11/18/07 08:53	0.017	0.108	0.108	0.183
DOE 4.5.2.3	AM-241	OH207-7935-03	11/18/07 08:53	0.033	0.034	0.034	0.051
DOE 4.5.2.3	AM-243	OH207-7935-03	11/18/07 08:53	0.089	0.030	0.032	0.027
DOE 4.5.2.3	CM-243	OH207-7935-03	11/18/07 08:53	0.005	0.041	0.041	0.071
DOE 4.5.2.3	AM-246	OH207-7935-03	11/18/07 08:53	0.017	0.058	0.058	0.106
DOE 4.5.2.3	CF-249	OH207-7935-03	11/18/07 08:53	0.014	0.020	0.020	0.036

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7935-LC1	SCAQC-7935-LD1		SCAQC-7935-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil

Site Sample ID: SB-CA-SS-2208-ST

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7935 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7935-04	11/18/07 11:59	2.73	0.396	0.481	0.208
DOE 4.5.2.3	CO-60	OH207-7935-04	11/18/07 11:59	0.008	0.013	0.013	0.022
DOE 4.5.2.3	RH-101	OH207-7935-04	11/18/07 11:59	-0.007	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	OH207-7935-04	11/18/07 11:59	0.019	0.035	0.035	0.062
DOE 4.5.2.3	CS-137	OH207-7935-04	11/18/07 11:59	0.304	0.053	0.061	0.024
DOE 4.5.2.3	EU-155	OH207-7935-04	11/18/07 11:59	0.048	0.050	0.050	0.087
DOE 4.5.2.3	TL-208	OH207-7935-04	11/18/07 11:59	0.185	0.035	0.039	0.020
DOE 4.5.2.3	PO-209	OH207-7935-04	11/18/07 11:59	-0.558	2.41	2.41	4.20
DOE 4.5.2.3	BI-211	OH207-7935-04	11/18/07 11:59	0.072	0.383	0.383	0.690
DOE 4.5.2.3	BI-212	OH207-7935-04	11/18/07 11:59	0.284	0.124	0.128	0.244
DOE 4.5.2.3	PB-212	OH207-7935-04	11/18/07 11:59	0.564	0.060	0.082	0.034
DOE 4.5.2.3	BI-214	OH207-7935-04	11/18/07 11:59	0.440	0.077	0.089	0.042
DOE 4.5.2.3	PB-214	OH207-7935-04	11/18/07 11:59	0.457	0.069	0.083	0.046
DOE 4.5.2.3	RA-223	OH207-7935-04	11/18/07 11:59	0.139	0.126	0.127	0.111
DOE 4.5.2.3	AC-228	OH207-7935-04	11/18/07 11:59	0.529	0.102	0.115	0.079
DOE 4.5.2.3	PA-233	OH207-7935-04	11/18/07 11:59	-0.002	0.024	0.024	0.041
DOE 4.5.2.3	PA-234M	OH207-7935-04	11/18/07 11:59	-0.849	1.59	1.59	2.68
DOE 4.5.2.3	TH-234	OH207-7935-04	11/18/07 11:59	0.789	0.400	0.407	0.498
DOE 4.5.2.3	U-235	OH207-7935-04	11/18/07 11:59	0.131	0.100	0.101	0.136
DOE 4.5.2.3	NP-236	OH207-7935-04	11/18/07 11:59	0.012	0.031	0.031	0.051
DOE 4.5.2.3	NP-237	OH207-7935-04	11/18/07 11:59	0.030	0.135	0.135	0.209
DOE 4.5.2.3	NP-239	OH207-7935-04	11/18/07 11:59	0.077	0.094	0.094	0.159
DOE 4.5.2.3	AM-241	OH207-7935-04	11/18/07 11:59	-0.032	0.079	0.079	0.136
DOE 4.5.2.3	AM-243	OH207-7935-04	11/18/07 11:59	0.136	0.044	0.046	0.044
DOE 4.5.2.3	CM-243	OH207-7935-04	11/18/07 11:59	-0.016	0.045	0.045	0.076
DOE 4.5.2.3	AM-246	OH207-7935-04	11/18/07 11:59	0.020	0.042	0.042	0.078
DOE 4.5.2.3	CF-249	OH207-7935-04	11/18/07 11:59	9.1e-04	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7935-LC1	SCAQC-7935-LD1		SCAQC-7935-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938 .

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CA-SS-2209-ST
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7935 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7935-05	11/18/07 12:01	2.70	0.413	0.494	0.186
DOE 4.5.2.3	CO-60	OH207-7935-05	11/18/07 12:01	0.006	0.014	0.014	0.024
DOE 4.5.2.3	RH-101	OH207-7935-05	11/18/07 12:01	0.004	0.018	0.018	0.029
DOE 4.5.2.3	SB-125	OH207-7935-05	11/18/07 12:01	0.009	0.045	0.045	0.078
DOE 4.5.2.3	CS-137	OH207-7935-05	11/18/07 12:01	0.050	0.025	0.025	0.030
DOE 4.5.2.3	EU-155	OH207-7935-05	11/18/07 12:01	0.012	0.059	0.059	0.100
DOE 4.5.2.3	TL-208	OH207-7935-05	11/18/07 12:01	0.336	0.051	0.061	0.029
DOE 4.5.2.3	PO-209	OH207-7935-05	11/18/07 12:01	3.49	2.84	2.86	5.44
DOE 4.5.2.3	BI-211	OH207-7935-05	11/18/07 12:01	-0.414	0.447	0.449	0.722
DOE 4.5.2.3	BI-212	OH207-7935-05	11/18/07 12:01	0.620	0.186	0.196	0.222
DOE 4.5.2.3	PB-212	OH207-7935-05	11/18/07 12:01	0.945	0.089	0.130	0.045
DOE 4.5.2.3	BI-214	OH207-7935-05	11/18/07 12:01	0.714	0.107	0.129	0.051
DOE 4.5.2.3	PB-214	OH207-7935-05	11/18/07 12:01	0.633	0.090	0.110	0.054
DOE 4.5.2.3	RA-223	OH207-7935-05	11/18/07 12:01	0.299	0.134	0.137	0.137
DOE 4.5.2.3	AC-228	OH207-7935-05	11/18/07 12:01	1.12	0.183	0.214	0.094
DOE 4.5.2.3	PA-233	OH207-7935-05	11/18/07 12:01	0.002	0.031	0.031	0.054
DOE 4.5.2.3	PA-234M	OH207-7935-05	11/18/07 12:01	-1.42	1.74	1.74	2.82
DOE 4.5.2.3	TH-234	OH207-7935-05	11/18/07 12:01	1.28	0.434	0.452	0.474
DOE 4.5.2.3	U-235	OH207-7935-05	11/18/07 12:01	0.084	0.107	0.107	0.180
DOE 4.5.2.3	NP-236	OH207-7935-05	11/18/07 12:01	0.026	0.037	0.037	0.058
DOE 4.5.2.3	NP-237	OH207-7935-05	11/18/07 12:01	0.575	0.193	0.201	0.224
DOE 4.5.2.3	NP-239	OH207-7935-05	11/18/07 12:01	-0.041	0.103	0.103	0.176
DOE 4.5.2.3	AM-241	OH207-7935-05	11/18/07 12:01	0.074	0.098	0.098	0.155
DOE 4.5.2.3	AM-243	OH207-7935-05	11/18/07 12:01	0.185	0.055	0.058	0.056
DOE 4.5.2.3	CM-243	OH207-7935-05	11/18/07 12:01	-0.025	0.053	0.053	0.088
DOE 4.5.2.3	AM-246	OH207-7935-05	11/18/07 12:01	0.027	0.054	0.054	0.098
DOE 4.5.2.3	CF-249	OH207-7935-05	11/18/07 12:01	0.013	0.018	0.018	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7935-LC1	SCAQC-7935-LD1		SCAQC-7935-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2205-SD
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7936 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7936-01	11/19/07 09:24	3.46	0.460	0.576	0.189
DOE 4.5.2.3	CO-60	OH207-7936-01	11/19/07 09:24	0.016	0.014	0.014	0.020
DOE 4.5.2.3	RH-101	OH207-7936-01	11/19/07 09:24	0.003	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7936-01	11/19/07 09:24	0.010	0.035	0.035	0.062
DOE 4.5.2.3	CS-137	OH207-7936-01	11/19/07 09:24	0.047	0.028	0.029	0.024
DOE 4.5.2.3	EU-155	OH207-7936-01	11/19/07 09:24	0.055	0.056	0.056	0.097
DOE 4.5.2.3	TL-208	OH207-7936-01	11/19/07 09:24	0.300	0.047	0.056	0.024
DOE 4.5.2.3	PO-209	OH207-7936-01	11/19/07 09:24	-1.46	2.53	2.53	4.22
DOE 4.5.2.3	BI-211	OH207-7936-01	11/19/07 09:24	-0.138	0.377	0.377	0.647
DOE 4.5.2.3	BI-212	OH207-7936-01	11/19/07 09:24	0.413	0.203	0.207	0.185
DOE 4.5.2.3	PB-212	OH207-7936-01	11/19/07 09:24	0.911	0.086	0.125	0.037
DOE 4.5.2.3	BI-214	OH207-7936-01	11/19/07 09:24	0.454	0.077	0.090	0.046
DOE 4.5.2.3	PB-214	OH207-7936-01	11/19/07 09:24	0.468	0.068	0.083	0.046
DOE 4.5.2.3	RA-223	OH207-7936-01	11/19/07 09:24	0.186	0.078	0.080	0.111
DOE 4.5.2.3	AC-228	OH207-7936-01	11/19/07 09:24	0.982	0.125	0.159	0.084
DOE 4.5.2.3	PA-233	OH207-7936-01	11/19/07 09:24	-0.002	0.024	0.024	0.043
DOE 4.5.2.3	PA-234M	OH207-7936-01	11/19/07 09:24	-0.295	1.50	1.50	2.61
DOE 4.5.2.3	TH-234	OH207-7936-01	11/19/07 09:24	0.893	0.372	0.382	0.538
DOE 4.5.2.3	U-235	OH207-7936-01	11/19/07 09:24	0.117	0.092	0.093	0.160
DOE 4.5.2.3	NP-236	OH207-7936-01	11/19/07 09:24	0.022	0.031	0.031	0.054
DOE 4.5.2.3	NP-237	OH207-7936-01	11/19/07 09:24	0.496	0.183	0.190	0.223
DOE 4.5.2.3	NP-239	OH207-7936-01	11/19/07 09:24	-0.030	0.097	0.097	0.157
DOE 4.5.2.3	AM-241	OH207-7936-01	11/19/07 09:24	0.003	0.084	0.084	0.147
DOE 4.5.2.3	AM-243	OH207-7936-01	11/19/07 09:24	0.145	0.046	0.048	0.048
DOE 4.5.2.3	CM-243	OH207-7936-01	11/19/07 09:24	-0.001	0.049	0.049	0.083
DOE 4.5.2.3	AM-246	OH207-7936-01	11/19/07 09:24	-0.002	0.043	0.043	0.076
DOE 4.5.2.3	CF-249	OH207-7936-01	11/19/07 09:24	0.008	0.016	0.016	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7936-LC1	SCAQC-7936-LD1		SCAQC-7936-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2206-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7936 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7936-02	11/18/07 15:06	1.06	0.293	0.312	0.263
DOE 4.5.2.3	CO-60	OH207-7936-02	11/18/07 15:06	-0.006	0.017	0.017	0.029
DOE 4.5.2.3	RH-101	OH207-7936-02	11/18/07 15:06	-0.009	0.020	0.020	0.032
DOE 4.5.2.3	SB-125	OH207-7936-02	11/18/07 15:06	0.012	0.051	0.051	0.091
DOE 4.5.2.3	CS-137	OH207-7936-02	11/18/07 15:06	0.021	0.023	0.023	0.042
DOE 4.5.2.3	EU-155	OH207-7936-02	11/18/07 15:06	0.083	0.057	0.057	0.101
DOE 4.5.2.3	TL-208	OH207-7936-02	11/18/07 15:06	0.280	0.051	0.058	0.033
DOE 4.5.2.3	PO-209	OH207-7936-02	11/18/07 15:06	0.858	3.38	3.38	6.28
DOE 4.5.2.3	BI-211	OH207-7936-02	11/18/07 15:06	0.216	0.603	0.604	1.07
DOE 4.5.2.3	BI-212	OH207-7936-02	11/18/07 15:06	0.437	0.280	0.283	0.308
DOE 4.5.2.3	PB-212	OH207-7936-02	11/18/07 15:06	0.916	0.095	0.132	0.055
DOE 4.5.2.3	BI-214	OH207-7936-02	11/18/07 15:06	0.385	0.085	0.094	0.064
DOE 4.5.2.3	PB-214	OH207-7936-02	11/18/07 15:06	0.344	0.082	0.089	0.065
DOE 4.5.2.3	RA-223	OH207-7936-02	11/18/07 15:06	0.216	0.153	0.155	0.167
DOE 4.5.2.3	AC-228	OH207-7936-02	11/18/07 15:06	0.949	0.178	0.202	0.121
DOE 4.5.2.3	PA-233	OH207-7936-02	11/18/07 15:06	0.002	0.038	0.038	0.064
DOE 4.5.2.3	PA-234M	OH207-7936-02	11/18/07 15:06	1.95	2.37	2.38	4.57
DOE 4.5.2.3	TH-234	OH207-7936-02	11/18/07 15:06	1.32	0.397	0.418	0.369
DOE 4.5.2.3	U-235	OH207-7936-02	11/18/07 15:06	0.029	0.121	0.121	0.207
DOE 4.5.2.3	NP-236	OH207-7936-02	11/18/07 15:06	0.063	0.037	0.038	0.057
DOE 4.5.2.3	NP-237	OH207-7936-02	11/18/07 15:06	0.600	0.175	0.185	0.160
DOE 4.5.2.3	NP-239	OH207-7936-02	11/18/07 15:06	-0.059	0.130	0.130	0.216
DOE 4.5.2.3	AM-241	OH207-7936-02	11/18/07 15:06	0.066	0.043	0.043	0.066
DOE 4.5.2.3	AM-243	OH207-7936-02	11/18/07 15:06	0.169	0.046	0.049	0.033
DOE 4.5.2.3	CM-243	OH207-7936-02	11/18/07 15:06	-0.025	0.052	0.052	0.088
DOE 4.5.2.3	AM-246	OH207-7936-02	11/18/07 15:06	0.051	0.064	0.065	0.125
DOE 4.5.2.3	CF-249	OH207-7936-02	11/18/07 15:06	0.013	0.022	0.022	0.039

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7936-LC1	SCAQC-7936-LD1		SCAQC-7936-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2207-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7936 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7936-03	11/18/07 16:03	3.28	0.454	0.560	0.212
DOE 4.5.2.3	CO-60	OH207-7936-03	11/18/07 16:03	-0.002	0.014	0.014	0.025
DOE 4.5.2.3	RH-101	OH207-7936-03	11/18/07 16:03	-0.004	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7936-03	11/18/07 16:03	-0.013	0.037	0.037	0.062
DOE 4.5.2.3	CS-137	OH207-7936-03	11/18/07 16:03	0.049	0.040	0.040	0.026
DOE 4.5.2.3	EU-155	OH207-7936-03	11/18/07 16:03	0.053	0.052	0.053	0.092
DOE 4.5.2.3	TL-208	OH207-7936-03	11/18/07 16:03	0.175	0.035	0.039	0.023
DOE 4.5.2.3	PO-209	OH207-7936-03	11/18/07 16:03	3.64	2.86	2.89	5.49
DOE 4.5.2.3	BI-211	OH207-7936-03	11/18/07 16:03	-0.096	0.396	0.396	0.689
DOE 4.5.2.3	BI-212	OH207-7936-03	11/18/07 16:03	0.392	0.164	0.169	0.171
DOE 4.5.2.3	PB-212	OH207-7936-03	11/18/07 16:03	0.516	0.067	0.085	0.058
DOE 4.5.2.3	BI-214	OH207-7936-03	11/18/07 16:03	0.405	0.074	0.085	0.045
DOE 4.5.2.3	PB-214	OH207-7936-03	11/18/07 16:03	0.429	0.068	0.080	0.044
DOE 4.5.2.3	RA-223	OH207-7936-03	11/18/07 16:03	0.200	0.117	0.119	0.121
DOE 4.5.2.3	AC-228	OH207-7936-03	11/18/07 16:03	0.689	0.119	0.138	0.078
DOE 4.5.2.3	PA-233	OH207-7936-03	11/18/07 16:03	0.006	0.026	0.026	0.045
DOE 4.5.2.3	PA-234M	OH207-7936-03	11/18/07 16:03	1.15	1.72	1.72	3.22
DOE 4.5.2.3	TH-234	OH207-7936-03	11/18/07 16:03	1.10	0.448	0.461	0.539
DOE 4.5.2.3	U-235	OH207-7936-03	11/18/07 16:03	0.023	0.091	0.091	0.154
DOE 4.5.2.3	NP-236	OH207-7936-03	11/18/07 16:03	0.018	0.032	0.032	0.051
DOE 4.5.2.3	NP-237	OH207-7936-03	11/18/07 16:03	0.532	0.171	0.179	0.212
DOE 4.5.2.3	NP-239	OH207-7936-03	11/18/07 16:03	0.038	0.089	0.089	0.150
DOE 4.5.2.3	AM-241	OH207-7936-03	11/18/07 16:03	-0.043	0.084	0.084	0.144
DOE 4.5.2.3	AM-243	OH207-7936-03	11/18/07 16:03	0.099	0.042	0.043	0.048
DOE 4.5.2.3	CM-243	OH207-7936-03	11/18/07 16:03	-0.004	0.046	0.046	0.079
DOE 4.5.2.3	AM-246	OH207-7936-03	11/18/07 16:03	0.012	0.043	0.043	0.079
DOE 4.5.2.3	CF-249	OH207-7936-03	11/18/07 16:03	-0.005	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7936-LC1	SCAQC-7936-LD1		SCAQC-7936-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2208-SD
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7936 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7936-04	11/18/07 18:06	2.12	0.351	0.410	0.180
DOE 4.5.2.3	CO-60	OH207-7936-04	11/18/07 18:06	0.003	0.013	0.013	0.023
DOE 4.5.2.3	RH-101	OH207-7936-04	11/18/07 18:06	-0.006	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7936-04	11/18/07 18:06	-0.007	0.039	0.039	0.066
DOE 4.5.2.3	CS-137	OH207-7936-04	11/18/07 18:06	0.080	0.039	0.040	0.025
DOE 4.5.2.3	EU-155	OH207-7936-04	11/18/07 18:06	0.012	0.053	0.053	0.089
DOE 4.5.2.3	TL-208	OH207-7936-04	11/18/07 18:06	0.205	0.036	0.042	0.024
DOE 4.5.2.3	PO-209	OH207-7936-04	11/18/07 18:06	-0.991	2.79	2.79	4.75
DOE 4.5.2.3	BI-211	OH207-7936-04	11/18/07 18:06	-0.187	0.380	0.381	0.643
DOE 4.5.2.3	BI-212	OH207-7936-04	11/18/07 18:06	0.546	0.188	0.196	0.169
DOE 4.5.2.3	PB-212	OH207-7936-04	11/18/07 18:06	0.611	0.063	0.088	0.039
DOE 4.5.2.3	BI-214	OH207-7936-04	11/18/07 18:06	0.471	0.078	0.091	0.045
DOE 4.5.2.3	PB-214	OH207-7936-04	11/18/07 18:06	0.541	0.078	0.095	0.046
DOE 4.5.2.3	RA-223	OH207-7936-04	11/18/07 18:06	0.093	0.076	0.076	0.116
DOE 4.5.2.3	AC-228	OH207-7936-04	11/18/07 18:06	0.614	0.133	0.146	0.080
DOE 4.5.2.3	PA-233	OH207-7936-04	11/18/07 18:06	0.023	0.026	0.026	0.047
DOE 4.5.2.3	PA-234M	OH207-7936-04	11/18/07 18:06	-0.158	1.62	1.63	2.85
DOE 4.5.2.3	TH-234	OH207-7936-04	11/18/07 18:06	0.301	0.290	0.291	0.503
DOE 4.5.2.3	U-235	OH207-7936-04	11/18/07 18:06	8.0e-04	0.093	0.093	0.153
DOE 4.5.2.3	NP-236	OH207-7936-04	11/18/07 18:06	0.034	0.031	0.031	0.054
DOE 4.5.2.3	NP-237	OH207-7936-04	11/18/07 18:06	0.337	0.180	0.183	0.212
DOE 4.5.2.3	NP-239	OH207-7936-04	11/18/07 18:06	-0.001	0.088	0.088	0.154
DOE 4.5.2.3	AM-241	OH207-7936-04	11/18/07 18:06	0.018	0.081	0.081	0.140
DOE 4.5.2.3	AM-243	OH207-7936-04	11/18/07 18:06	0.151	0.045	0.048	0.043
DOE 4.5.2.3	CM-243	OH207-7936-04	11/18/07 18:06	0.022	0.047	0.047	0.081
DOE 4.5.2.3	AM-246	OH207-7936-04	11/18/07 18:06	-6.9e-04	0.048	0.048	0.083
DOE 4.5.2.3	CF-249	OH207-7936-04	11/18/07 18:06	0.005	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7936-LC1	SCAQC-7936-LD1		SCAQC-7936-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2209-SD
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7936 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7936-05	11/18/07 18:07	2.93	0.430	0.521	0.256
DOE 4.5.2.3	CO-60	OH207-7936-05	11/18/07 18:07	-0.002	0.018	0.018	0.031
DOE 4.5.2.3	RH-101	OH207-7936-05	11/18/07 18:07	-0.015	0.019	0.019	0.030
DOE 4.5.2.3	SB-125	OH207-7936-05	11/18/07 18:07	0.035	0.048	0.048	0.086
DOE 4.5.2.3	CS-137	OH207-7936-05	11/18/07 18:07	0.059	0.031	0.031	0.034
DOE 4.5.2.3	EU-155	OH207-7936-05	11/18/07 18:07	0.053	0.052	0.052	0.092
DOE 4.5.2.3	TL-208	OH207-7936-05	11/18/07 18:07	0.289	0.047	0.055	0.028
DOE 4.5.2.3	PO-209	OH207-7936-05	11/18/07 18:07	-2.00	3.22	3.23	5.44
DOE 4.5.2.3	BI-211	OH207-7936-05	11/18/07 18:07	-0.301	0.501	0.502	0.819
DOE 4.5.2.3	BI-212	OH207-7936-05	11/18/07 18:07	0.563	0.213	0.220	0.258
DOE 4.5.2.3	PB-212	OH207-7936-05	11/18/07 18:07	0.967	0.093	0.134	0.049
DOE 4.5.2.3	BI-214	OH207-7936-05	11/18/07 18:07	0.654	0.089	0.110	0.058
DOE 4.5.2.3	PB-214	OH207-7936-05	11/18/07 18:07	0.636	0.090	0.110	0.056
DOE 4.5.2.3	RA-223	OH207-7936-05	11/18/07 18:07	0.381	0.144	0.149	0.145
DOE 4.5.2.3	AC-228	OH207-7936-05	11/18/07 18:07	0.963	0.163	0.190	0.097
DOE 4.5.2.3	PA-233	OH207-7936-05	11/18/07 18:07	0.017	0.033	0.033	0.056
DOE 4.5.2.3	PA-234M	OH207-7936-05	11/18/07 18:07	1.02	1.98	1.98	3.70
DOE 4.5.2.3	TH-234	OH207-7936-05	11/18/07 18:07	1.59	0.418	0.448	0.349
DOE 4.5.2.3	U-235	OH207-7936-05	11/18/07 18:07	0.113	0.112	0.112	0.194
DOE 4.5.2.3	NP-236	OH207-7936-05	11/18/07 18:07	0.033	0.034	0.034	0.049
DOE 4.5.2.3	NP-237	OH207-7936-05	11/18/07 18:07	0.565	0.154	0.164	0.152
DOE 4.5.2.3	NP-239	OH207-7936-05	11/18/07 18:07	0.007	0.116	0.116	0.197
DOE 4.5.2.3	AM-241	OH207-7936-05	11/18/07 18:07	0.042	0.037	0.038	0.056
DOE 4.5.2.3	AM-243	OH207-7936-05	11/18/07 18:07	0.175	0.047	0.050	0.031
DOE 4.5.2.3	CM-243	OH207-7936-05	11/18/07 18:07	0.003	0.047	0.047	0.081
DOE 4.5.2.3	AM-246	OH207-7936-05	11/18/07 18:07	0.049	0.057	0.057	0.109
DOE 4.5.2.3	CF-249	OH207-7936-05	11/18/07 18:07	0.017	0.020	0.020	0.036

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7936-LC1	SCAQC-7936-LD1		SCAQC-7936-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2210-ST
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7937 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-01	11/19/07 12:52	4.88	0.540	0.728	0.244
DOE 4.5.2.3	CO-60	OH207-7937-01	11/19/07 12:52	-0.002	0.015	0.015	0.025
DOE 4.5.2.3	RH-101	OH207-7937-01	11/19/07 12:52	-0.013	0.016	0.016	0.025
DOE 4.5.2.3	SB-125	OH207-7937-01	11/19/07 12:52	0.010	0.039	0.039	0.068
DOE 4.5.2.3	CS-137	OH207-7937-01	11/19/07 12:52	0.198	0.037	0.042	0.026
DOE 4.5.2.3	EU-155	OH207-7937-01	11/19/07 12:52	0.065	0.057	0.057	0.100
DOE 4.5.2.3	TL-208	OH207-7937-01	11/19/07 12:52	0.309	0.049	0.058	0.026
DOE 4.5.2.3	PO-209	OH207-7937-01	11/19/07 12:52	0.151	2.81	2.81	4.97
DOE 4.5.2.3	BI-211	OH207-7937-01	11/19/07 12:52	-0.353	0.422	0.424	0.696
DOE 4.5.2.3	BI-212	OH207-7937-01	11/19/07 12:52	0.615	0.203	0.212	0.193
DOE 4.5.2.3	PB-212	OH207-7937-01	11/19/07 12:52	0.912	0.086	0.125	0.040
DOE 4.5.2.3	BI-214	OH207-7937-01	11/19/07 12:52	0.572	0.093	0.109	0.049
DOE 4.5.2.3	PB-214	OH207-7937-01	11/19/07 12:52	0.661	0.082	0.105	0.049
DOE 4.5.2.3	RA-223	OH207-7937-01	11/19/07 12:52	0.201	0.086	0.088	0.158
DOE 4.5.2.3	AC-228	OH207-7937-01	11/19/07 12:52	1.09	0.136	0.175	0.078
DOE 4.5.2.3	PA-233	OH207-7937-01	11/19/07 12:52	0.034	0.027	0.027	0.049
DOE 4.5.2.3	PA-234M	OH207-7937-01	11/19/07 12:52	1.94	1.77	1.78	3.36
DOE 4.5.2.3	TH-234	OH207-7937-01	11/19/07 12:52	1.12	0.428	0.443	0.570
DOE 4.5.2.3	U-235	OH207-7937-01	11/19/07 12:52	0.014	0.097	0.097	0.163
DOE 4.5.2.3	NP-236	OH207-7937-01	11/19/07 12:52	0.060	0.035	0.035	0.060
DOE 4.5.2.3	NP-237	OH207-7937-01	11/19/07 12:52	0.433	0.169	0.174	0.204
DOE 4.5.2.3	NP-239	OH207-7937-01	11/19/07 12:52	0.086	0.105	0.105	0.176
DOE 4.5.2.3	AM-241	OH207-7937-01	11/19/07 12:52	0.015	0.092	0.092	0.162
DOE 4.5.2.3	AM-243	OH207-7937-01	11/19/07 12:52	0.165	0.050	0.053	0.051
DOE 4.5.2.3	CM-243	OH207-7937-01	11/19/07 12:52	0.015	0.051	0.051	0.087
DOE 4.5.2.3	AM-246	OH207-7937-01	11/19/07 12:52	-0.002	0.047	0.047	0.082
DOE 4.5.2.3	CF-249	OH207-7937-01	11/19/07 12:52	0.007	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2211-ST
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7937 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-02	11/19/07 12:53	3.33	0.452	0.561	0.210
DOE 4.5.2.3	CO-60	OH207-7937-02	11/19/07 12:53	-0.008	0.013	0.013	0.020
DOE 4.5.2.3	RH-101	OH207-7937-02	11/19/07 12:53	-0.009	0.016	0.016	0.025
DOE 4.5.2.3	SB-125	OH207-7937-02	11/19/07 12:53	0.020	0.040	0.040	0.069
DOE 4.5.2.3	CS-137	OH207-7937-02	11/19/07 12:53	0.051	0.023	0.024	0.029
DOE 4.5.2.3	EU-155	OH207-7937-02	11/19/07 12:53	0.126	0.058	0.059	0.100
DOE 4.5.2.3	TL-208	OH207-7937-02	11/19/07 12:53	0.323	0.047	0.057	0.025
DOE 4.5.2.3	PO-209	OH207-7937-02	11/19/07 12:53	0.354	2.84	2.84	5.02
DOE 4.5.2.3	BI-211	OH207-7937-02	11/19/07 12:53	-0.406	0.422	0.424	0.680
DOE 4.5.2.3	BI-212	OH207-7937-02	11/19/07 12:53	0.733	0.199	0.212	0.194
DOE 4.5.2.3	PB-212	OH207-7937-02	11/19/07 12:53	0.928	0.087	0.127	0.040
DOE 4.5.2.3	BI-214	OH207-7937-02	11/19/07 12:53	0.624	0.095	0.114	0.047
DOE 4.5.2.3	PB-214	OH207-7937-02	11/19/07 12:53	0.683	0.081	0.106	0.049
DOE 4.5.2.3	RA-223	OH207-7937-02	11/19/07 12:53	0.420	0.138	0.145	0.127
DOE 4.5.2.3	AC-228	OH207-7937-02	11/19/07 12:53	1.15	0.169	0.205	0.091
DOE 4.5.2.3	PA-233	OH207-7937-02	11/19/07 12:53	-0.004	0.027	0.027	0.046
DOE 4.5.2.3	PA-234M	OH207-7937-02	11/19/07 12:53	1.14	1.66	1.66	3.06
DOE 4.5.2.3	TH-234	OH207-7937-02	11/19/07 12:53	1.46	0.336	0.366	0.566
DOE 4.5.2.3	U-235	OH207-7937-02	11/19/07 12:53	0.026	0.099	0.099	0.164
DOE 4.5.2.3	NP-236	OH207-7937-02	11/19/07 12:53	0.023	0.034	0.034	0.056
DOE 4.5.2.3	NP-237	OH207-7937-02	11/19/07 12:53	0.560	0.179	0.187	0.196
DOE 4.5.2.3	NP-239	OH207-7937-02	11/19/07 12:53	-0.046	0.097	0.097	0.165
DOE 4.5.2.3	AM-241	OH207-7937-02	11/19/07 12:53	-0.009	0.087	0.087	0.149
DOE 4.5.2.3	AM-243	OH207-7937-02	11/19/07 12:53	0.232	0.062	0.067	0.049
DOE 4.5.2.3	CM-243	OH207-7937-02	11/19/07 12:53	-0.012	0.052	0.052	0.086
DOE 4.5.2.3	AM-246	OH207-7937-02	11/19/07 12:53	0.041	0.049	0.049	0.091
DOE 4.5.2.3	CF-249	OH207-7937-02	11/19/07 12:53	-7.8e-06	0.017	0.017	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2212-ST

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7937 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-03	11/19/07 12:54	5.58	0.590	0.812	0.253
DOE 4.5.2.3	CO-60	OH207-7937-03	11/19/07 12:54	0.009	0.020	0.020	0.028
DOE 4.5.2.3	RH-101	OH207-7937-03	11/19/07 12:54	-0.016	0.020	0.020	0.033
DOE 4.5.2.3	SB-125	OH207-7937-03	11/19/07 12:54	-0.035	0.051	0.051	0.085
DOE 4.5.2.3	CS-137	OH207-7937-03	11/19/07 12:54	0.277	0.049	0.056	0.037
DOE 4.5.2.3	EU-155	OH207-7937-03	11/19/07 12:54	0.009	0.055	0.055	0.095
DOE 4.5.2.3	TL-208	OH207-7937-03	11/19/07 12:54	0.338	0.050	0.061	0.032
DOE 4.5.2.3	PO-209	OH207-7937-03	11/19/07 12:54	-0.186	3.62	3.62	6.41
DOE 4.5.2.3	BI-211	OH207-7937-03	11/19/07 12:54	0.023	0.588	0.588	0.868
DOE 4.5.2.3	BI-212	OH207-7937-03	11/19/07 12:54	0.804	0.248	0.261	0.244
DOE 4.5.2.3	PB-212	OH207-7937-03	11/19/07 12:54	1.03	0.101	0.144	0.055
DOE 4.5.2.3	BI-214	OH207-7937-03	11/19/07 12:54	0.834	0.109	0.137	0.061
DOE 4.5.2.3	PB-214	OH207-7937-03	11/19/07 12:54	0.939	0.106	0.142	0.063
DOE 4.5.2.3	RA-223	OH207-7937-03	11/19/07 12:54	0.332	0.149	0.152	0.167
DOE 4.5.2.3	AC-228	OH207-7937-03	11/19/07 12:54	1.26	0.184	0.224	0.119
DOE 4.5.2.3	PA-233	OH207-7937-03	11/19/07 12:54	0.008	0.035	0.035	0.060
DOE 4.5.2.3	PA-234M	OH207-7937-03	11/19/07 12:54	1.88	2.23	2.24	4.21
DOE 4.5.2.3	TH-234	OH207-7937-03	11/19/07 12:54	1.54	0.408	0.436	0.536
DOE 4.5.2.3	U-235	OH207-7937-03	11/19/07 12:54	-0.015	0.120	0.120	0.204
DOE 4.5.2.3	NP-236	OH207-7937-03	11/19/07 12:54	0.042	0.037	0.037	0.054
DOE 4.5.2.3	NP-237	OH207-7937-03	11/19/07 12:54	0.567	0.173	0.182	0.166
DOE 4.5.2.3	NP-239	OH207-7937-03	11/19/07 12:54	0.042	0.129	0.129	0.220
DOE 4.5.2.3	AM-241	OH207-7937-03	11/19/07 12:54	-0.118	0.040	0.041	0.059
DOE 4.5.2.3	AM-243	OH207-7937-03	11/19/07 12:54	0.178	0.046	0.049	0.033
DOE 4.5.2.3	CM-243	OH207-7937-03	11/19/07 12:54	0.024	0.050	0.050	0.087
DOE 4.5.2.3	AM-246	OH207-7937-03	11/19/07 12:54	0.008	0.063	0.063	0.114
DOE 4.5.2.3	CF-249	OH207-7937-03	11/19/07 12:54	0.031	0.022	0.022	0.040

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah	Chain-of-Custody Number: COC #28/07-3080.04		Matrix: Soil
Site Sample ID: SB-CZ-SS-2213-ST			
Other Sample ID:	Collection Date: 9/26/2007	Date Received:	9/27/2007 8:45:00
	Batch Number: 7937	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-04	11/19/07 15:56	5.86	0.599	0.838	0.212
DOE 4.5.2.3	CO-60	OH207-7937-04	11/19/07 15:56	0.002	0.016	0.016	0.022
DOE 4.5.2.3	RH-101	OH207-7937-04	11/19/07 15:56	-0.002	0.017	0.017	0.028
DOE 4.5.2.3	SB-125	OH207-7937-04	11/19/07 15:56	-8.3e-04	0.043	0.043	0.073
DOE 4.5.2.3	CS-137	OH207-7937-04	11/19/07 15:56	0.161	0.034	0.037	0.031
DOE 4.5.2.3	EU-155	OH207-7937-04	11/19/07 15:56	0.049	0.061	0.061	0.105
DOE 4.5.2.3	TL-208	OH207-7937-04	11/19/07 15:56	0.339	0.050	0.060	0.027
DOE 4.5.2.3	PO-209	OH207-7937-04	11/19/07 15:56	-1.92	2.83	2.83	4.66
DOE 4.5.2.3	BI-211	OH207-7937-04	11/19/07 15:56	-0.338	0.464	0.466	0.772
DOE 4.5.2.3	BI-212	OH207-7937-04	11/19/07 15:56	0.636	0.236	0.244	0.202
DOE 4.5.2.3	PB-212	OH207-7937-04	11/19/07 15:56	1.08	0.099	0.147	0.045
DOE 4.5.2.3	BI-214	OH207-7937-04	11/19/07 15:56	1.02	0.130	0.165	0.049
DOE 4.5.2.3	PB-214	OH207-7937-04	11/19/07 15:56	0.959	0.109	0.145	0.049
DOE 4.5.2.3	RA-223	OH207-7937-04	11/19/07 15:56	0.405	0.153	0.158	0.133
DOE 4.5.2.3	AC-228	OH207-7937-04	11/19/07 15:56	1.25	0.148	0.194	0.089
DOE 4.5.2.3	PA-233	OH207-7937-04	11/19/07 15:56	0.020	0.028	0.028	0.049
DOE 4.5.2.3	PA-234M	OH207-7937-04	11/19/07 15:56	1.46	1.81	1.81	3.33
DOE 4.5.2.3	TH-234	OH207-7937-04	11/19/07 15:56	1.16	0.482	0.496	0.582
DOE 4.5.2.3	U-235	OH207-7937-04	11/19/07 15:56	0.020	0.110	0.110	0.184
DOE 4.5.2.3	NP-236	OH207-7937-04	11/19/07 15:56	0.036	0.037	0.037	0.061
DOE 4.5.2.3	NP-237	OH207-7937-04	11/19/07 15:56	0.570	0.202	0.210	0.242
DOE 4.5.2.3	NP-239	OH207-7937-04	11/19/07 15:56	-0.023	0.109	0.109	0.176
DOE 4.5.2.3	AM-241	OH207-7937-04	11/19/07 15:56	-0.014	0.095	0.095	0.164
DOE 4.5.2.3	AM-243	OH207-7937-04	11/19/07 15:56	0.182	0.057	0.060	0.054
DOE 4.5.2.3	CM-243	OH207-7937-04	11/19/07 15:56	0.012	0.055	0.055	0.093
DOE 4.5.2.3	AM-246	OH207-7937-04	11/19/07 15:56	-0.014	0.050	0.050	0.085
DOE 4.5.2.3	CF-249	OH207-7937-04	11/19/07 15:56	0.011	0.018	0.018	0.031

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2214-ST

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7937 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-05	11/19/07 15:57	4.46	0.522	0.687	0.230
DOE 4.5.2.3	CO-60	OH207-7937-05	11/19/07 15:57	0.008	0.016	0.016	0.022
DOE 4.5.2.3	RH-101	OH207-7937-05	11/19/07 15:57	0.009	0.017	0.017	0.027
DOE 4.5.2.3	SB-125	OH207-7937-05	11/19/07 15:57	-0.017	0.042	0.042	0.069
DOE 4.5.2.3	CS-137	OH207-7937-05	11/19/07 15:57	0.247	0.045	0.051	0.028
DOE 4.5.2.3	EU-155	OH207-7937-05	11/19/07 15:57	0.029	0.057	0.057	0.096
DOE 4.5.2.3	TL-208	OH207-7937-05	11/19/07 15:57	0.260	0.045	0.052	0.028
DOE 4.5.2.3	PO-209	OH207-7937-05	11/19/07 15:57	0.393	2.78	2.79	4.94
DOE 4.5.2.3	BI-211	OH207-7937-05	11/19/07 15:57	-0.439	0.422	0.424	0.674
DOE 4.5.2.3	BI-212	OH207-7937-05	11/19/07 15:57	0.412	0.196	0.200	0.196
DOE 4.5.2.3	PB-212	OH207-7937-05	11/19/07 15:57	0.865	0.082	0.119	0.042
DOE 4.5.2.3	BI-214	OH207-7937-05	11/19/07 15:57	0.708	0.100	0.122	0.050
DOE 4.5.2.3	PB-214	OH207-7937-05	11/19/07 15:57	0.762	0.086	0.115	0.049
DOE 4.5.2.3	RA-223	OH207-7937-05	11/19/07 15:57	0.340	0.137	0.141	0.126
DOE 4.5.2.3	AC-228	OH207-7937-05	11/19/07 15:57	0.870	0.164	0.185	0.089
DOE 4.5.2.3	PA-233	OH207-7937-05	11/19/07 15:57	-0.005	0.028	0.028	0.047
DOE 4.5.2.3	PA-234M	OH207-7937-05	11/19/07 15:57	1.73	1.78	1.79	3.33
DOE 4.5.2.3	TH-234	OH207-7937-05	11/19/07 15:57	1.53	0.508	0.530	0.569
DOE 4.5.2.3	U-235	OH207-7937-05	11/19/07 15:57	0.057	0.100	0.100	0.167
DOE 4.5.2.3	NP-236	OH207-7937-05	11/19/07 15:57	0.051	0.037	0.037	-0.058
DOE 4.5.2.3	NP-237	OH207-7937-05	11/19/07 15:57	0.536	0.186	0.193	0.242
DOE 4.5.2.3	NP-239	OH207-7937-05	11/19/07 15:57	0.082	0.101	0.101	0.178
DOE 4.5.2.3	AM-241	OH207-7937-05	11/19/07 15:57	0.002	0.084	0.084	0.144
DOE 4.5.2.3	AM-243	OH207-7937-05	11/19/07 15:57	0.194	0.054	0.057	0.050
DOE 4.5.2.3	CM-243	OH207-7937-05	11/19/07 15:57	0.013	0.051	0.051	0.087
DOE 4.5.2.3	AM-246	OH207-7937-05	11/19/07 15:57	0.034	0.048	0.048	0.089
DOE 4.5.2.3	CF-249	OH207-7937-05	11/19/07 15:57	0.007	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2215-ST

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7937 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-06	11/19/07 15:58	5.19	0.563	0.766	0.217
DOE 4.5.2.3	CO-60	OH207-7937-06	11/19/07 15:58	0.011	0.020	0.020	0.030
DOE 4.5.2.3	RH-101	OH207-7937-06	11/19/07 15:58	0.003	0.019	0.019	0.033
DOE 4.5.2.3	SB-125	OH207-7937-06	11/19/07 15:58	-0.032	0.050	0.050	0.084
DOE 4.5.2.3	CS-137	OH207-7937-06	11/19/07 15:58	0.233	0.042	0.048	0.037
DOE 4.5.2.3	EU-155	OH207-7937-06	11/19/07 15:58	0.085	0.054	0.055	0.096
DOE 4.5.2.3	TL-208	OH207-7937-06	11/19/07 15:58	0.308	0.051	0.059	0.033
DOE 4.5.2.3	PO-209	OH207-7937-06	11/19/07 15:58	-0.262	3.70	3.70	6.56
DOE 4.5.2.3	BI-211	OH207-7937-06	11/19/07 15:58	-0.433	0.537	0.539	0.861
DOE 4.5.2.3	BI-212	OH207-7937-06	11/19/07 15:58	0.591	0.238	0.246	0.251
DOE 4.5.2.3	PB-212	OH207-7937-06	11/19/07 15:58	1.03	0.099	0.143	0.052
DOE 4.5.2.3	BI-214	OH207-7937-06	11/19/07 15:58	0.786	0.102	0.129	0.057
DOE 4.5.2.3	PB-214	OH207-7937-06	11/19/07 15:58	0.720	0.108	0.130	0.062
DOE 4.5.2.3	RA-223	OH207-7937-06	11/19/07 15:58	0.498	0.179	0.185	0.164
DOE 4.5.2.3	AC-228	OH207-7937-06	11/19/07 15:58	0.928	0.166	0.190	0.113
DOE 4.5.2.3	PA-233	OH207-7937-06	11/19/07 15:58	-0.006	0.035	0.035	0.058
DOE 4.5.2.3	PA-234M	OH207-7937-06	11/19/07 15:58	1.92	2.19	2.20	4.16
DOE 4.5.2.3	TH-234	OH207-7937-06	11/19/07 15:58	1.19	0.414	0.431	0.364
DOE 4.5.2.3	U-235	OH207-7937-06	11/19/07 15:58	0.041	0.119	0.119	0.204
DOE 4.5.2.3	NP-236	OH207-7937-06	11/19/07 15:58	0.054	0.034	0.035	0.054
DOE 4.5.2.3	NP-237	OH207-7937-06	11/19/07 15:58	0.329	0.152	0.156	0.194
DOE 4.5.2.3	NP-239	OH207-7937-06	11/19/07 15:58	-0.050	0.126	0.126	0.210
DOE 4.5.2.3	AM-241	OH207-7937-06	11/19/07 15:58	0.007	0.040	0.040	0.058
DOE 4.5.2.3	AM-243	OH207-7937-06	11/19/07 15:58	0.161	0.045	0.047	0.032
DOE 4.5.2.3	CM-243	OH207-7937-06	11/19/07 15:58	0.001	0.049	0.049	0.085
DOE 4.5.2.3	AM-246	OH207-7937-06	11/19/07 15:58	0.045	0.066	0.066	0.123
DOE 4.5.2.3	CF-249	OH207-7937-06	11/19/07 15:58	0.001	0.022	0.022	0.038

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2216-ST
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7937 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-07	11/19/07 19:01	2.43	0.375	0.447	0.195
DOE 4.5.2.3	CO-60	OH207-7937-07	11/19/07 19:01	-9.2e-04	0.013	0.013	0.022
DOE 4.5.2.3	RH-101	OH207-7937-07	11/19/07 19:01	0.021	0.015	0.015	0.026
DOE 4.5.2.3	SB-125	OH207-7937-07	11/19/07 19:01	-0.013	0.038	0.038	0.065
DOE 4.5.2.3	CS-137	OH207-7937-07	11/19/07 19:01	0.028	0.017	0.017	0.032
DOE 4.5.2.3	EU-155	OH207-7937-07	11/19/07 19:01	0.039	0.052	0.052	0.090
DOE 4.5.2.3	TL-208	OH207-7937-07	11/19/07 19:01	0.271	0.043	0.050	0.024
DOE 4.5.2.3	PO-209	OH207-7937-07	11/19/07 19:01	1.68	2.65	2.65	4.90
DOE 4.5.2.3	BI-211	OH207-7937-07	11/19/07 19:01	-0.565	0.396	0.400	0.614
DOE 4.5.2.3	BI-212	OH207-7937-07	11/19/07 19:01	0.557	0.203	0.210	0.181
DOE 4.5.2.3	PB-212	OH207-7937-07	11/19/07 19:01	0.738	0.074	0.104	0.037
DOE 4.5.2.3	BI-214	OH207-7937-07	11/19/07 19:01	0.561	0.087	0.103	0.045
DOE 4.5.2.3	PB-214	OH207-7937-07	11/19/07 19:01	0.577	0.073	0.093	0.044
DOE 4.5.2.3	RA-223	OH207-7937-07	11/19/07 19:01	0.228	0.099	0.102	0.121
DOE 4.5.2.3	AC-228	OH207-7937-07	11/19/07 19:01	0.812	0.135	0.158	0.084
DOE 4.5.2.3	PA-233	OH207-7937-07	11/19/07 19:01	-0.006	0.024	0.024	0.042
DOE 4.5.2.3	PA-234M	OH207-7937-07	11/19/07 19:01	1.44	1.53	1.53	2.93
DOE 4.5.2.3	TH-234	OH207-7937-07	11/19/07 19:01	0.790	0.392	0.400	0.536
DOE 4.5.2.3	U-235	OH207-7937-07	11/19/07 19:01	-0.057	0.093	0.093	0.152
DOE 4.5.2.3	NP-236	OH207-7937-07	11/19/07 19:01	-0.013	0.031	0.031	0.051
DOE 4.5.2.3	NP-237	OH207-7937-07	11/19/07 19:01	0.456	0.174	0.180	0.191
DOE 4.5.2.3	NP-239	OH207-7937-07	11/19/07 19:01	0.004	0.093	0.093	0.153
DOE 4.5.2.3	AM-241	OH207-7937-07	11/19/07 19:01	-0.007	0.082	0.082	0.143
DOE 4.5.2.3	AM-243	OH207-7937-07	11/19/07 19:01	0.167	0.051	0.053	0.048
DOE 4.5.2.3	CM-243	OH207-7937-07	11/19/07 19:01	-0.021	0.047	0.047	0.079
DOE 4.5.2.3	AM-246	OH207-7937-07	11/19/07 19:01	0.030	0.041	0.041	0.078
DOE 4.5.2.3	CF-249	OH207-7937-07	11/19/07 19:01	-2.2e-04	0.016	0.016	0.027

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2217-ST

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7937 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-08	11/19/07 19:02	4.05	0.479	0.627	0.226
DOE 4.5.2.3	CO-60	OH207-7937-08	11/19/07 19:02	0.004	0.014	0.014	0.026
DOE 4.5.2.3	RH-101	OH207-7937-08	11/19/07 19:02	-0.002	0.016	0.016	0.026
DOE 4.5.2.3	SB-125	OH207-7937-08	11/19/07 19:02	0.039	0.039	0.039	0.070
DOE 4.5.2.3	CS-137	OH207-7937-08	11/19/07 19:02	-0.004	0.015	0.015	0.027
DOE 4.5.2.3	EU-155	OH207-7937-08	11/19/07 19:02	0.022	0.058	0.058	0.098
DOE 4.5.2.3	TL-208	OH207-7937-08	11/19/07 19:02	0.355	0.055	0.065	0.026
DOE 4.5.2.3	PO-209	OH207-7937-08	11/19/07 19:02	-1.25	2.84	2.85	4.77
DOE 4.5.2.3	BI-211	OH207-7937-08	11/19/07 19:02	-0.337	0.428	0.429	0.701
DOE 4.5.2.3	BI-212	OH207-7937-08	11/19/07 19:02	0.933	0.258	0.274	0.201
DOE 4.5.2.3	PB-212	OH207-7937-08	11/19/07 19:02	1.07	0.097	0.145	0.042
DOE 4.5.2.3	BI-214	OH207-7937-08	11/19/07 19:02	0.599	0.088	0.107	0.048
DOE 4.5.2.3	PB-214	OH207-7937-08	11/19/07 19:02	0.633	0.082	0.104	0.050
DOE 4.5.2.3	RA-223	OH207-7937-08	11/19/07 19:02	0.466	0.161	0.168	0.125
DOE 4.5.2.3	AC-228	OH207-7937-08	11/19/07 19:02	1.28	0.178	0.219	0.088
DOE 4.5.2.3	PA-233	OH207-7937-08	11/19/07 19:02	0.002	0.026	0.026	0.045
DOE 4.5.2.3	PA-234M	OH207-7937-08	11/19/07 19:02	2.26	1.81	1.83	3.43
DOE 4.5.2.3	TH-234	OH207-7937-08	11/19/07 19:02	1.64	0.462	0.490	0.426
DOE 4.5.2.3	U-235	OH207-7937-08	11/19/07 19:02	0.019	0.101	0.101	0.167
DOE 4.5.2.3	NP-236	OH207-7937-08	11/19/07 19:02	-0.009	0.035	0.035	0.055
DOE 4.5.2.3	NP-237	OH207-7937-08	11/19/07 19:02	0.600	0.182	0.191	0.201
DOE 4.5.2.3	NP-239	OH207-7937-08	11/19/07 19:02	0.007	0.099	0.099	0.172
DOE 4.5.2.3	AM-241	OH207-7937-08	11/19/07 19:02	0.030	0.098	0.098	0.152
DOE 4.5.2.3	AM-243	OH207-7937-08	11/19/07 19:02	0.216	0.058	0.062	0.049
DOE 4.5.2.3	CM-243	OH207-7937-08	11/19/07 19:02	-0.024	0.052	0.052	0.085
DOE 4.5.2.3	AM-246	OH207-7937-08	11/19/07 19:02	0.026	0.048	0.048	0.087
DOE 4.5.2.3	CF-249	OH207-7937-08	11/19/07 19:02	0.002	0.018	0.018	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2218-ST
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7937 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-09	11/19/07 19:03	2.25	0.502	0.550	0.309
DOE 4.5.2.3	CO-60	OH207-7937-09	11/19/07 19:03	-1.2e-04	0.020	0.020	0.033
DOE 4.5.2.3	RH-101	OH207-7937-09	11/19/07 19:03	0.007	0.020	0.020	0.034
DOE 4.5.2.3	SB-125	OH207-7937-09	11/19/07 19:03	0.018	0.052	0.052	0.093
DOE 4.5.2.3	CS-137	OH207-7937-09	11/19/07 19:03	0.004	0.023	0.023	0.039
DOE 4.5.2.3	EU-155	OH207-7937-09	11/19/07 19:03	0.036	0.058	0.058	0.102
DOE 4.5.2.3	TL-208	OH207-7937-09	11/19/07 19:03	0.256	0.042	0.049	0.033
DOE 4.5.2.3	PO-209	OH207-7937-09	11/19/07 19:03	0.884	3.77	3.77	6.90
DOE 4.5.2.3	BI-211	OH207-7937-09	11/19/07 19:03	-0.604	0.574	0.577	0.894
DOE 4.5.2.3	BI-212	OH207-7937-09	11/19/07 19:03	0.578	0.269	0.275	0.258
DOE 4.5.2.3	PB-212	OH207-7937-09	11/19/07 19:03	0.940	0.097	0.135	0.053
DOE 4.5.2.3	BI-214	OH207-7937-09	11/19/07 19:03	0.349	0.110	0.115	0.070
DOE 4.5.2.3	PB-214	OH207-7937-09	11/19/07 19:03	0.455	0.089	0.100	0.063
DOE 4.5.2.3	RA-223	OH207-7937-09	11/19/07 19:03	0.351	0.207	0.210	0.169
DOE 4.5.2.3	AC-228	OH207-7937-09	11/19/07 19:03	0.927	0.174	0.197	0.123
DOE 4.5.2.3	PA-233	OH207-7937-09	11/19/07 19:03	0.034	0.035	0.035	0.062
DOE 4.5.2.3	PA-234M	OH207-7937-09	11/19/07 19:03	2.01	2.53	2.54	4.79
DOE 4.5.2.3	TH-234	OH207-7937-09	11/19/07 19:03	1.50	0.407	0.434	0.375
DOE 4.5.2.3	U-235	OH207-7937-09	11/19/07 19:03	0.072	0.119	0.119	0.206
DOE 4.5.2.3	NP-236	OH207-7937-09	11/19/07 19:03	0.029	0.038	0.038	0.056
DOE 4.5.2.3	NP-237	OH207-7937-09	11/19/07 19:03	0.651	0.179	0.190	0.163
DOE 4.5.2.3	NP-239	OH207-7937-09	11/19/07 19:03	-0.061	0.129	0.129	0.214
DOE 4.5.2.3	AM-241	OH207-7937-09	11/19/07 19:03	0.030	0.043	0.043	0.064
DOE 4.5.2.3	AM-243	OH207-7937-09	11/19/07 19:03	0.166	0.046	0.048	0.037
DOE 4.5.2.3	CM-243	OH207-7937-09	11/19/07 19:03	0.043	0.053	0.053	0.093
DOE 4.5.2.3	AM-246	OH207-7937-09	11/19/07 19:03	-0.006	0.063	0.063	0.113
DOE 4.5.2.3	CF-249	OH207-7937-09	11/19/07 19:03	-0.002	0.022	0.022	0.038

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #28/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2219-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7937	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-10	11/19/07 22:18	5.48	0.597	0.811	0.243
DOE 4.5.2.3	CO-60	OH207-7937-10	11/19/07 22:18	-0.009	0.018	0.018	0.030
DOE 4.5.2.3	RH-101	OH207-7937-10	11/19/07 22:18	-0.007	0.018	0.018	0.029
DOE 4.5.2.3	SB-125	OH207-7937-10	11/19/07 22:18	-0.006	0.046	0.046	0.079
DOE 4.5.2.3	CS-137	OH207-7937-10	11/19/07 22:18	0.170	0.032	0.037	0.031
DOE 4.5.2.3	EU-155	OH207-7937-10	11/19/07 22:18	0.062	0.052	0.052	0.091
DOE 4.5.2.3	TL-208	OH207-7937-10	11/19/07 22:18	0.326	0.051	0.060	0.028
DOE 4.5.2.3	PO-209	OH207-7937-10	11/19/07 22:18	-0.155	3.31	3.31	5.83
DOE 4.5.2.3	BI-211	OH207-7937-10	11/19/07 22:18	-0.414	0.496	0.498	0.794
DOE 4.5.2.3	BI-212	OH207-7937-10	11/19/07 22:18	0.607	0.262	0.269	0.221
DOE 4.5.2.3	PB-212	OH207-7937-10	11/19/07 22:18	1.03	0.096	0.140	0.048
DOE 4.5.2.3	BI-214	OH207-7937-10	11/19/07 22:18	0.875	0.110	0.141	0.056
DOE 4.5.2.3	PB-214	OH207-7937-10	11/19/07 22:18	0.987	0.109	0.147	0.057
DOE 4.5.2.3	RA-223	OH207-7937-10	11/19/07 22:18	0.300	0.163	0.165	0.157
DOE 4.5.2.3	AC-228	OH207-7937-10	11/19/07 22:18	1.10	0.176	0.207	0.104
DOE 4.5.2.3	PA-233	OH207-7937-10	11/19/07 22:18	0.016	0.031	0.031	0.053
DOE 4.5.2.3	PA-234M	OH207-7937-10	11/19/07 22:18	3.34	2.02	2.05	3.92
DOE 4.5.2.3	TH-234	OH207-7937-10	11/19/07 22:18	1.03	0.330	0.346	0.322
DOE 4.5.2.3	U-235	OH207-7937-10	11/19/07 22:18	0.071	0.107	0.107	0.183
DOE 4.5.2.3	NP-236	OH207-7937-10	11/19/07 22:18	0.021	0.032	0.032	0.047
DOE 4.5.2.3	NP-237	OH207-7937-10	11/19/07 22:18	0.522	0.117	0.128	0.154
DOE 4.5.2.3	NP-239	OH207-7937-10	11/19/07 22:18	-0.035	0.117	0.117	0.195
DOE 4.5.2.3	AM-241	OH207-7937-10	11/19/07 22:18	0.034	0.034	0.034	0.051
DOE 4.5.2.3	AM-243	OH207-7937-10	11/19/07 22:18	0.148	0.037	0.039	0.029
DOE 4.5.2.3	CM-243	OH207-7937-10	11/19/07 22:18	0.040	0.046	0.047	0.081
DOE 4.5.2.3	AM-246	OH207-7937-10	11/19/07 22:18	0.050	0.065	0.066	0.119
DOE 4.5.2.3	CF-249	OH207-7937-10	11/19/07 22:18	0.027	0.021	0.021	0.038

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #28/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2220-ST				
Other Sample ID:		Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7937	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-11	11/20/07 08:57	6.39	0.627	0.895	0.185
DOE 4.5.2.3	CO-60	OH207-7937-11	11/20/07 08:57	0.004	0.014	0.014	0.025
DOE 4.5.2.3	RH-101	OH207-7937-11	11/20/07 08:57	-0.011	0.017	0.017	0.028
DOE 4.5.2.3	SB-125	OH207-7937-11	11/20/07 08:57	0.029	0.041	0.041	0.072
DOE 4.5.2.3	CS-137	OH207-7937-11	11/20/07 08:57	0.152	0.041	0.044	0.029
DOE 4.5.2.3	EU-155	OH207-7937-11	11/20/07 08:57	0.048	0.059	0.059	0.101
DOE 4.5.2.3	TL-208	OH207-7937-11	11/20/07 08:57	0.424	0.058	0.072	0.024
DOE 4.5.2.3	PO-209	OH207-7937-11	11/20/07 08:57	-2.66	2.99	3.00	4.81
DOE 4.5.2.3	BI-211	OH207-7937-11	11/20/07 08:57	-0.082	0.436	0.436	0.753
DOE 4.5.2.3	BI-212	OH207-7937-11	11/20/07 08:57	0.612	0.224	0.232	0.186
DOE 4.5.2.3	PB-212	OH207-7937-11	11/20/07 08:57	0.961	0.095	0.135	0.059
DOE 4.5.2.3	BI-214	OH207-7937-11	11/20/07 08:57	0.857	0.118	0.145	0.049
DOE 4.5.2.3	PB-214	OH207-7937-11	11/20/07 08:57	0.991	0.107	0.146	0.048
DOE 4.5.2.3	RA-223	OH207-7937-11	11/20/07 08:57	0.281	0.114	0.117	0.138
DOE 4.5.2.3	AC-228	OH207-7937-11	11/20/07 08:57	1.14	0.145	0.185	0.083
DOE 4.5.2.3	PA-233	OH207-7937-11	11/20/07 08:57	0.008	0.029	0.029	0.050
DOE 4.5.2.3	PA-234M	OH207-7937-11	11/20/07 08:57	1.52	1.61	1.61	3.02
DOE 4.5.2.3	TH-234	OH207-7937-11	11/20/07 08:57	1.53	0.432	0.459	0.582
DOE 4.5.2.3	U-235	OH207-7937-11	11/20/07 08:57	0.056	0.105	0.105	0.177
DOE 4.5.2.3	NP-236	OH207-7937-11	11/20/07 08:57	0.023	0.038	0.038	0.058
DOE 4.5.2.3	NP-237	OH207-7937-11	11/20/07 08:57	0.942	0.230	0.249	0.208
DOE 4.5.2.3	NP-239	OH207-7937-11	11/20/07 08:57	-0.057	0.110	0.111	0.176
DOE 4.5.2.3	AM-241	OH207-7937-11	11/20/07 08:57	-0.088	0.093	0.093	0.156
DOE 4.5.2.3	AM-243	OH207-7937-11	11/20/07 08:57	0.218	0.061	0.065	0.051
DOE 4.5.2.3	CM-243	OH207-7937-11	11/20/07 08:57	-0.032	0.054	0.054	0.089
DOE 4.5.2.3	AM-246	OH207-7937-11	11/20/07 08:57	0.036	0.051	0.051	0.093
DOE 4.5.2.3	CF-249	OH207-7937-11	11/20/07 08:57	0.016	0.018	0.018	0.031

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2221-ST
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7937 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-12	11/20/07 08:58	5.29	0.544	0.759	0.180
DOE 4.5.2.3	CO-60	OH207-7937-12	11/20/07 08:58	0.014	0.014	0.014	0.027
DOE 4.5.2.3	RH-101	OH207-7937-12	11/20/07 08:58	-1.0e-03	0.016	0.016	0.025
DOE 4.5.2.3	SB-125	OH207-7937-12	11/20/07 08:58	-0.005	0.039	0.039	0.066
DOE 4.5.2.3	CS-137	OH207-7937-12	11/20/07 08:58	0.151	0.037	0.040	0.026
DOE 4.5.2.3	EU-155	OH207-7937-12	11/20/07 08:58	0.043	0.054	0.054	0.092
DOE 4.5.2.3	TL-208	OH207-7937-12	11/20/07 08:58	0.297	0.045	0.054	0.025
DOE 4.5.2.3	PO-209	OH207-7937-12	11/20/07 08:58	-1.44	2.76	2.76	4.58
DOE 4.5.2.3	BI-211	OH207-7937-12	11/20/07 08:58	-0.104	0.401	0.401	0.686
DOE 4.5.2.3	BI-212	OH207-7937-12	11/20/07 08:58	0.570	0.198	0.206	0.193
DOE 4.5.2.3	PB-212	OH207-7937-12	11/20/07 08:58	0.723	0.081	0.109	0.048
DOE 4.5.2.3	BI-214	OH207-7937-12	11/20/07 08:58	0.823	0.110	0.138	0.046
DOE 4.5.2.3	PB-214	OH207-7937-12	11/20/07 08:58	0.849	0.088	0.122	0.051
DOE 4.5.2.3	RA-223	OH207-7937-12	11/20/07 08:58	0.308	0.126	0.129	0.123
DOE 4.5.2.3	AC-228	OH207-7937-12	11/20/07 08:58	0.918	0.133	0.161	0.085
DOE 4.5.2.3	PA-233	OH207-7937-12	11/20/07 08:58	0.001	0.027	0.027	0.046
DOE 4.5.2.3	PA-234M	OH207-7937-12	11/20/07 08:58	1.84	1.68	1.69	3.14
DOE 4.5.2.3	TH-234	OH207-7937-12	11/20/07 08:58	1.36	0.387	0.410	0.523
DOE 4.5.2.3	U-235	OH207-7937-12	11/20/07 08:58	0.173	0.099	0.101	0.170
DOE 4.5.2.3	NP-236	OH207-7937-12	11/20/07 08:58	0.041	0.034	0.035	0.053
DOE 4.5.2.3	NP-237	OH207-7937-12	11/20/07 08:58	0.527	0.180	0.187	0.191
DOE 4.5.2.3	NP-239	OH207-7937-12	11/20/07 08:58	-0.024	0.092	0.092	0.159
DOE 4.5.2.3	AM-241	OH207-7937-12	11/20/07 08:58	-0.069	0.080	0.080	0.133
DOE 4.5.2.3	AM-243	OH207-7937-12	11/20/07 08:58	0.187	0.054	0.057	0.046
DOE 4.5.2.3	CM-243	OH207-7937-12	11/20/07 08:58	-0.003	0.049	0.049	0.081
DOE 4.5.2.3	AM-246	OH207-7937-12	11/20/07 08:58	0.012	0.050	0.050	0.088
DOE 4.5.2.3	CF-249	OH207-7937-12	11/20/07 08:58	0.017	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2222-ST

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7937 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-13	11/20/07 09:00	2.61	0.396	0.474	0.243
DOE 4.5.2.3	CO-60	OH207-7937-13	11/20/07 09:00	0.002	0.018	0.018	0.026
DOE 4.5.2.3	RH-101	OH207-7937-13	11/20/07 09:00	9.5e-04	0.017	0.017	0.028
DOE 4.5.2.3	SB-125	OH207-7937-13	11/20/07 09:00	7.8e-04	0.041	0.041	0.072
DOE 4.5.2.3	CS-137	OH207-7937-13	11/20/07 09:00	0.138	0.028	0.031	0.029
DOE 4.5.2.3	EU-155	OH207-7937-13	11/20/07 09:00	0.043	0.046	0.046	0.081
DOE 4.5.2.3	TL-208	OH207-7937-13	11/20/07 09:00	0.277	0.042	0.050	0.029
DOE 4.5.2.3	PO-209	OH207-7937-13	11/20/07 09:00	-0.546	3.07	3.07	5.40
DOE 4.5.2.3	BI-211	OH207-7937-13	11/20/07 09:00	-0.126	0.458	0.458	0.768
DOE 4.5.2.3	BI-212	OH207-7937-13	11/20/07 09:00	0.572	0.216	0.223	0.195
DOE 4.5.2.3	PB-212	OH207-7937-13	11/20/07 09:00	0.779	0.078	0.110	0.045
DOE 4.5.2.3	BI-214	OH207-7937-13	11/20/07 09:00	0.689	0.084	0.109	0.049
DOE 4.5.2.3	PB-214	OH207-7937-13	11/20/07 09:00	0.676	0.094	0.116	0.055
DOE 4.5.2.3	RA-223	OH207-7937-13	11/20/07 09:00	0.286	0.162	0.164	0.133
DOE 4.5.2.3	AC-228	OH207-7937-13	11/20/07 09:00	0.830	0.149	0.170	0.105
DOE 4.5.2.3	PA-233	OH207-7937-13	11/20/07 09:00	0.009	0.030	0.030	0.051
DOE 4.5.2.3	PA-234M	OH207-7937-13	11/20/07 09:00	2.16	1.87	1.88	3.60
DOE 4.5.2.3	TH-234	OH207-7937-13	11/20/07 09:00	0.527	0.252	0.257	0.424
DOE 4.5.2.3	U-235	OH207-7937-13	11/20/07 09:00	0.011	0.096	0.096	0.164
DOE 4.5.2.3	NP-236	OH207-7937-13	11/20/07 09:00	0.031	0.027	0.027	0.045
DOE 4.5.2.3	NP-237	OH207-7937-13	11/20/07 09:00	0.272	0.091	0.095	0.163
DOE 4.5.2.3	NP-239	OH207-7937-13	11/20/07 09:00	0.047	0.106	0.106	0.181
DOE 4.5.2.3	AM-241	OH207-7937-13	11/20/07 09:00	0.033	0.031	0.031	0.046
DOE 4.5.2.3	AM-243	OH207-7937-13	11/20/07 09:00	0.128	0.037	0.039	0.026
DOE 4.5.2.3	CM-243	OH207-7937-13	11/20/07 09:00	-0.015	0.041	0.041	0.070
DOE 4.5.2.3	AM-246	OH207-7937-13	11/20/07 09:00	0.037	0.051	0.052	0.097
DOE 4.5.2.3	CF-249	OH207-7937-13	11/20/07 09:00	0.003	0.019	0.019	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2223-ST

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7937 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7937-14	11/20/07 12:02	0.395	0.216	0.219	0.154
DOE 4.5.2.3	CO-60	OH207-7937-14	11/20/07 12:02	0.002	0.011	0.011	0.020
DOE 4.5.2.3	RH-101	OH207-7937-14	11/20/07 12:02	-0.006	0.012	0.012	0.020
DOE 4.5.2.3	SB-125	OH207-7937-14	11/20/07 12:02	0.010	0.030	0.030	0.054
DOE 4.5.2.3	CS-137	OH207-7937-14	11/20/07 12:02	0.068	0.023	0.024	0.022
DOE 4.5.2.3	EU-155	OH207-7937-14	11/20/07 12:02	0.019	0.042	0.042	0.073
DOE 4.5.2.3	TL-208	OH207-7937-14	11/20/07 12:02	0.116	0.029	0.031	0.020
DOE 4.5.2.3	PO-209	OH207-7937-14	11/20/07 12:02	2.35	2.16	2.17	4.28
DOE 4.5.2.3	BI-211	OH207-7937-14	11/20/07 12:02	0.013	0.300	0.300	0.546
DOE 4.5.2.3	BI-212	OH207-7937-14	11/20/07 12:02	0.293	0.140	0.143	0.151
DOE 4.5.2.3	PB-212	OH207-7937-14	11/20/07 12:02	0.281	0.046	0.054	0.043
DOE 4.5.2.3	BI-214	OH207-7937-14	11/20/07 12:02	0.190	0.049	0.053	0.079
DOE 4.5.2.3	PB-214	OH207-7937-14	11/20/07 12:02	0.167	0.046	0.049	0.040
DOE 4.5.2.3	RA-223	OH207-7937-14	11/20/07 12:02	0.101	0.064	0.065	0.120
DOE 4.5.2.3	AC-228	OH207-7937-14	11/20/07 12:02	0.282	0.105	0.109	0.072
DOE 4.5.2.3	PA-233	OH207-7937-14	11/20/07 12:02	0.009	0.021	0.021	0.038
DOE 4.5.2.3	PA-234M	OH207-7937-14	11/20/07 12:02	0.030	1.38	1.38	2.50
DOE 4.5.2.3	TH-234	OH207-7937-14	11/20/07 12:02	0.306	0.273	0.274	0.448
DOE 4.5.2.3	U-235	OH207-7937-14	11/20/07 12:02	0.054	0.075	0.075	0.130
DOE 4.5.2.3	NP-236	OH207-7937-14	11/20/07 12:02	-0.009	0.026	0.026	0.041
DOE 4.5.2.3	NP-237	OH207-7937-14	11/20/07 12:02	0.188	0.130	0.132	0.174
DOE 4.5.2.3	NP-239	OH207-7937-14	11/20/07 12:02	0.008	0.076	0.076	0.127
DOE 4.5.2.3	AM-241	OH207-7937-14	11/20/07 12:02	-0.023	0.069	0.069	0.119
DOE 4.5.2.3	AM-243	OH207-7937-14	11/20/07 12:02	0.079	0.031	0.032	0.038
DOE 4.5.2.3	CM-243	OH207-7937-14	11/20/07 12:02	0.004	0.039	0.039	0.067
DOE 4.5.2.3	AM-246	OH207-7937-14	11/20/07 12:02	0.002	0.033	0.033	0.061
DOE 4.5.2.3	CF-249	OH207-7937-14	11/20/07 12:02	0.009	0.013	0.013	0.023

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2210-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-01	11/20/07 15:07	4.34	0.451	0.626	0.175
DOE 4.5.2.3	CO-60	OH207-7938-01	11/20/07 15:07	0.007	0.012	0.012	0.019
DOE 4.5.2.3	RH-101	OH207-7938-01	11/20/07 15:07	-0.005	0.014	0.014	0.022
DOE 4.5.2.3	SB-125	OH207-7938-01	11/20/07 15:07	0.011	0.034	0.034	0.059
DOE 4.5.2.3	CS-137	OH207-7938-01	11/20/07 15:07	0.097	0.024	0.026	0.023
DOE 4.5.2.3	EU-155	OH207-7938-01	11/20/07 15:07	0.039	0.049	0.049	0.084
DOE 4.5.2.3	TL-208	OH207-7938-01	11/20/07 15:07	0.304	0.042	0.052	0.020
DOE 4.5.2.3	PO-209	OH207-7938-01	11/20/07 15:07	-1.70	2.49	2.50	4.10
DOE 4.5.2.3	BI-211	OH207-7938-01	11/20/07 15:07	0.111	0.343	0.343	0.616
DOE 4.5.2.3	BI-212	OH207-7938-01	11/20/07 15:07	0.592	0.178	0.187	0.160
DOE 4.5.2.3	PB-212	OH207-7938-01	11/20/07 15:07	0.856	0.079	0.116	0.036
DOE 4.5.2.3	BI-214	OH207-7938-01	11/20/07 15:07	0.538	0.080	0.096	0.040
DOE 4.5.2.3	PB-214	OH207-7938-01	11/20/07 15:07	0.554	0.074	0.093	0.041
DOE 4.5.2.3	RA-223	OH207-7938-01	11/20/07 15:07	0.274	0.113	0.116	0.107
DOE 4.5.2.3	AC-228	OH207-7938-01	11/20/07 15:07	0.932	0.116	0.149	0.071
DOE 4.5.2.3	PA-233	OH207-7938-01	11/20/07 15:07	-0.007	0.023	0.023	0.039
DOE 4.5.2.3	PA-234M	OH207-7938-01	11/20/07 15:07	0.962	1.36	1.36	2.52
DOE 4.5.2.3	TH-234	OH207-7938-01	11/20/07 15:07	1.49	0.403	0.430	0.499
DOE 4.5.2.3	U-235	OH207-7938-01	11/20/07 15:07	-0.008	0.084	0.084	0.139
DOE 4.5.2.3	NP-236	OH207-7938-01	11/20/07 15:07	0.039	0.030	0.030	0.049
DOE 4.5.2.3	NP-237	OH207-7938-01	11/20/07 15:07	0.493	0.156	0.163	0.175
DOE 4.5.2.3	NP-239	OH207-7938-01	11/20/07 15:07	-0.007	0.090	0.090	0.146
DOE 4.5.2.3	AM-241	OH207-7938-01	11/20/07 15:07	0.050	0.078	0.078	0.138
DOE 4.5.2.3	AM-243	OH207-7938-01	11/20/07 15:07	0.153	0.047	0.050	0.043
DOE 4.5.2.3	CM-243	OH207-7938-01	11/20/07 15:07	0.020	0.044	0.044	0.075
DOE 4.5.2.3	AM-246	OH207-7938-01	11/20/07 15:07	-0.015	0.040	0.040	0.067
DOE 4.5.2.3	CF-249	OH207-7938-01	11/20/07 15:07	-0.007	0.014	0.014	0.024

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2211-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-02	11/20/07 15:10	3.56	0.488	0.604	0.260
DOE 4.5.2.3	CO-60	OH207-7938-02	11/20/07 15:10	-0.007	0.018	0.018	0.026
DOE 4.5.2.3	RH-101	OH207-7938-02	11/20/07 15:10	0.002	0.019	0.019	0.031
DOE 4.5.2.3	SB-125	OH207-7938-02	11/20/07 15:10	0.027	0.046	0.046	0.082
DOE 4.5.2.3	CS-137	OH207-7938-02	11/20/07 15:10	0.008	0.020	0.020	0.036
DOE 4.5.2.3	EU-155	OH207-7938-02	11/20/07 15:10	0.070	0.053	0.054	0.094
DOE 4.5.2.3	TL-208	OH207-7938-02	11/20/07 15:10	0.308	0.049	0.058	0.031
DOE 4.5.2.3	PO-209	OH207-7938-02	11/20/07 15:10	-0.272	3.27	3.27	5.79
DOE 4.5.2.3	BI-211	OH207-7938-02	11/20/07 15:10	-0.264	0.564	0.565	0.929
DOE 4.5.2.3	BI-212	OH207-7938-02	11/20/07 15:10	0.821	0.275	0.287	0.223
DOE 4.5.2.3	PB-212	OH207-7938-02	11/20/07 15:10	1.05	0.099	0.145	0.049
DOE 4.5.2.3	BI-214	OH207-7938-02	11/20/07 15:10	0.638	0.095	0.114	0.060
DOE 4.5.2.3	PB-214	OH207-7938-02	11/20/07 15:10	0.762	0.102	0.128	0.057
DOE 4.5.2.3	RA-223	OH207-7938-02	11/20/07 15:10	0.287	0.132	0.135	0.150
DOE 4.5.2.3	AC-228	OH207-7938-02	11/20/07 15:10	0.994	0.161	0.189	0.114
DOE 4.5.2.3	PA-233	OH207-7938-02	11/20/07 15:10	0.004	0.033	0.033	0.056
DOE 4.5.2.3	PA-234M	OH207-7938-02	11/20/07 15:10	1.68	2.13	2.14	4.00
DOE 4.5.2.3	TH-234	OH207-7938-02	11/20/07 15:10	0.916	0.354	0.366	0.360
DOE 4.5.2.3	U-235	OH207-7938-02	11/20/07 15:10	0.064	0.113	0.113	0.194
DOE 4.5.2.3	NP-236	OH207-7938-02	11/20/07 15:10	0.033	0.035	0.035	0.051
DOE 4.5.2.3	NP-237	OH207-7938-02	11/20/07 15:10	0.527	0.143	0.152	0.156
DOE 4.5.2.3	NP-239	OH207-7938-02	11/20/07 15:10	-0.015	0.116	0.116	0.194
DOE 4.5.2.3	AM-241	OH207-7938-02	11/20/07 15:10	0.028	0.038	0.038	0.056
DOE 4.5.2.3	AM-243	OH207-7938-02	11/20/07 15:10	0.201	0.051	0.055	0.032
DOE 4.5.2.3	CM-243	OH207-7938-02	11/20/07 15:10	-0.010	0.048	0.048	0.083
DOE 4.5.2.3	AM-246	OH207-7938-02	11/20/07 15:10	-0.001	0.058	0.058	0.102
DOE 4.5.2.3	CF-249	OH207-7938-02	11/20/07 15:10	-0.004	0.021	0.021	0.036

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2212-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-03	11/20/07 18:14	5.03	0.533	0.733	0.172
DOE 4.5.2.3	CO-60	OH207-7938-03	11/20/07 18:14	0.005	0.013	0.013	0.022
DOE 4.5.2.3	RH-101	OH207-7938-03	11/20/07 18:14	0.004	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7938-03	11/20/07 18:14	0.014	0.039	0.039	0.067
DOE 4.5.2.3	CS-137	OH207-7938-03	11/20/07 18:14	0.091	0.034	0.035	0.025
DOE 4.5.2.3	EU-155	OH207-7938-03	11/20/07 18:14	0.035	0.055	0.055	0.094
DOE 4.5.2.3	TL-208	OH207-7938-03	11/20/07 18:14	0.329	0.047	0.057	0.024
DOE 4.5.2.3	PO-209	OH207-7938-03	11/20/07 18:14	-3.03	2.59	2.61	4.02
DOE 4.5.2.3	BI-211	OH207-7938-03	11/20/07 18:14	-0.012	0.372	0.372	0.650
DOE 4.5.2.3	BI-212	OH207-7938-03	11/20/07 18:14	0.451	0.206	0.211	0.169
DOE 4.5.2.3	PB-212	OH207-7938-03	11/20/07 18:14	0.890	0.083	0.122	0.039
DOE 4.5.2.3	BI-214	OH207-7938-03	11/20/07 18:14	0.840	0.114	0.141	0.046
DOE 4.5.2.3	PB-214	OH207-7938-03	11/20/07 18:14	0.880	0.099	0.133	0.043
DOE 4.5.2.3	RA-223	OH207-7938-03	11/20/07 18:14	0.116	0.081	0.082	0.122
DOE 4.5.2.3	AC-228	OH207-7938-03	11/20/07 18:14	1.03	0.128	0.164	0.084
DOE 4.5.2.3	PA-233	OH207-7938-03	11/20/07 18:14	-0.025	0.026	0.026	0.042
DOE 4.5.2.3	PA-234M	OH207-7938-03	11/20/07 18:14	0.974	1.57	1.58	2.86
DOE 4.5.2.3	TH-234	OH207-7938-03	11/20/07 18:14	0.598	0.287	0.293	0.541
DOE 4.5.2.3	U-235	OH207-7938-03	11/20/07 18:14	0.009	0.093	0.093	0.155
DOE 4.5.2.3	NP-236	OH207-7938-03	11/20/07 18:14	0.021	0.035	0.035	0.055
DOE 4.5.2.3	NP-237	OH207-7938-03	11/20/07 18:14	0.267	0.154	0.156	0.239
DOE 4.5.2.3	NP-239	OH207-7938-03	11/20/07 18:14	0.033	0.097	0.097	0.160
DOE 4.5.2.3	AM-241	OH207-7938-03	11/20/07 18:14	0.016	0.085	0.085	0.148
DOE 4.5.2.3	AM-243	OH207-7938-03	11/20/07 18:14	0.180	0.055	0.058	0.047
DOE 4.5.2.3	CM-243	OH207-7938-03	11/20/07 18:14	-0.002	0.049	0.049	0.083
DOE 4.5.2.3	AM-246	OH207-7938-03	11/20/07 18:14	0.026	0.045	0.045	0.081
DOE 4.5.2.3	CF-249	OH207-7938-03	11/20/07 18:14	-0.009	0.016	0.016	0.027

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2213-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-04	11/20/07 18:18	6.40	0.603	0.880	0.197
DOE 4.5.2.3	CO-60	OH207-7938-04	11/20/07 18:18	-0.007	0.014	0.014	0.023
DOE 4.5.2.3	RH-101	OH207-7938-04	11/20/07 18:18	-0.012	0.016	0.016	0.024
DOE 4.5.2.3	SB-125	OH207-7938-04	11/20/07 18:18	0.014	0.040	0.040	0.068
DOE 4.5.2.3	CS-137	OH207-7938-04	11/20/07 18:18	0.029	0.025	0.025	0.029
DOE 4.5.2.3	EU-155	OH207-7938-04	11/20/07 18:18	0.050	0.055	0.055	0.093
DOE 4.5.2.3	TL-208	OH207-7938-04	11/20/07 18:18	0.331	0.050	0.060	0.025
DOE 4.5.2.3	PO-209	OH207-7938-04	11/20/07 18:18	1.61	2.86	2.87	5.12
DOE 4.5.2.3	BI-211	OH207-7938-04	11/20/07 18:18	-0.116	0.412	0.412	0.700
DOE 4.5.2.3	BI-212	OH207-7938-04	11/20/07 18:18	0.577	0.217	0.225	0.191
DOE 4.5.2.3	PB-212	OH207-7938-04	11/20/07 18:18	0.963	0.088	0.131	0.041
DOE 4.5.2.3	BI-214	OH207-7938-04	11/20/07 18:18	0.854	0.115	0.143	0.045
DOE 4.5.2.3	PB-214	OH207-7938-04	11/20/07 18:18	0.926	0.101	0.137	0.047
DOE 4.5.2.3	RA-223	OH207-7938-04	11/20/07 18:18	0.490	0.162	0.170	0.124
DOE 4.5.2.3	AC-228	OH207-7938-04	11/20/07 18:18	1.10	0.155	0.190	0.085
DOE 4.5.2.3	PA-233	OH207-7938-04	11/20/07 18:18	-0.005	0.026	0.026	0.045
DOE 4.5.2.3	PA-234M	OH207-7938-04	11/20/07 18:18	2.20	1.62	1.64	3.08
DOE 4.5.2.3	TH-234	OH207-7938-04	11/20/07 18:18	1.31	0.429	0.448	0.526
DOE 4.5.2.3	U-235	OH207-7938-04	11/20/07 18:18	0.087	0.100	0.100	0.167
DOE 4.5.2.3	NP-236	OH207-7938-04	11/20/07 18:18	0.021	0.031	0.031	0.053
DOE 4.5.2.3	NP-237	OH207-7938-04	11/20/07 18:18	0.373	0.172	0.176	0.212
DOE 4.5.2.3	NP-239	OH207-7938-04	11/20/07 18:18	-0.028	0.096	0.096	0.164
DOE 4.5.2.3	AM-241	OH207-7938-04	11/20/07 18:18	-0.010	0.080	0.080	0.136
DOE 4.5.2.3	AM-243	OH207-7938-04	11/20/07 18:18	0.207	0.057	0.060	0.046
DOE 4.5.2.3	CM-243	OH207-7938-04	11/20/07 18:18	0.034	0.050	0.050	0.084
DOE 4.5.2.3	AM-246	OH207-7938-04	11/20/07 18:18	0.008	0.052	0.052	0.090
DOE 4.5.2.3	CF-249	OH207-7938-04	11/20/07 18:18	0.002	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2214-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-05	11/20/07 18:23	3.76	0.483	0.612	0.248
DOE 4.5.2.3	CO-60	OH207-7938-05	11/20/07 18:23	0.007	0.016	0.016	0.029
DOE 4.5.2.3	RH-101	OH207-7938-05	11/20/07 18:23	3.9e-04	0.016	0.016	0.027
DOE 4.5.2.3	SB-125	OH207-7938-05	11/20/07 18:23	0.025	0.042	0.042	0.075
DOE 4.5.2.3	CS-137	OH207-7938-05	11/20/07 18:23	0.098	0.035	0.037	0.028
DOE 4.5.2.3	EU-155	OH207-7938-05	11/20/07 18:23	0.031	0.048	0.048	0.084
DOE 4.5.2.3	TL-208	OH207-7938-05	11/20/07 18:23	0.276	0.041	0.049	0.027
DOE 4.5.2.3	PO-209	OH207-7938-05	11/20/07 18:23	-1.24	3.08	3.08	5.30
DOE 4.5.2.3	BI-211	OH207-7938-05	11/20/07 18:23	-0.400	0.501	0.503	0.805
DOE 4.5.2.3	BI-212	OH207-7938-05	11/20/07 18:23	0.452	0.213	0.217	0.213
DOE 4.5.2.3	PB-212	OH207-7938-05	11/20/07 18:23	0.783	0.077	0.110	0.043
DOE 4.5.2.3	BI-214	OH207-7938-05	11/20/07 18:23	0.669	0.096	0.117	0.053
DOE 4.5.2.3	PB-214	OH207-7938-05	11/20/07 18:23	0.756	0.090	0.118	0.051
DOE 4.5.2.3	RA-223	OH207-7938-05	11/20/07 18:23	0.346	0.134	0.138	0.140
DOE 4.5.2.3	AC-228	OH207-7938-05	11/20/07 18:23	0.958	0.147	0.175	0.098
DOE 4.5.2.3	PA-233	OH207-7938-05	11/20/07 18:23	-0.007	0.030	0.030	0.049
DOE 4.5.2.3	PA-234M	OH207-7938-05	11/20/07 18:23	2.82	1.95	1.97	3.78
DOE 4.5.2.3	TH-234	OH207-7938-05	11/20/07 18:23	1.03	0.346	0.361	0.442
DOE 4.5.2.3	U-235	OH207-7938-05	11/20/07 18:23	0.108	0.102	0.102	0.176
DOE 4.5.2.3	NP-236	OH207-7938-05	11/20/07 18:23	0.030	0.031	0.031	0.045
DOE 4.5.2.3	NP-237	OH207-7938-05	11/20/07 18:23	0.498	0.159	0.167	0.137
DOE 4.5.2.3	NP-239	OH207-7938-05	11/20/07 18:23	-0.025	0.110	0.110	0.184
DOE 4.5.2.3	AM-241	OH207-7938-05	11/20/07 18:23	-0.093	0.032	0.034	0.048
DOE 4.5.2.3	AM-243	OH207-7938-05	11/20/07 18:23	0.138	0.037	0.040	0.028
DOE 4.5.2.3	CM-243	OH207-7938-05	11/20/07 18:23	-0.007	0.043	0.043	0.074
DOE 4.5.2.3	AM-246	OH207-7938-05	11/20/07 18:23	0.020	0.053	0.053	0.097
DOE 4.5.2.3	CF-249	OH207-7938-05	11/20/07 18:23	0.015	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2215-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-06	11/20/07 21:15	2.58	0.356	0.440	0.180
DOE 4.5.2.3	CO-60	OH207-7938-06	11/20/07 21:15	0.004	0.013	0.013	0.023
DOE 4.5.2.3	RH-101	OH207-7938-06	11/20/07 21:15	-0.005	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7938-06	11/20/07 21:15	0.036	0.038	0.038	0.068
DOE 4.5.2.3	CS-137	OH207-7938-06	11/20/07 21:15	0.006	0.015	0.015	0.027
DOE 4.5.2.3	EU-155	OH207-7938-06	11/20/07 21:15	0.084	0.054	0.055	0.095
DOE 4.5.2.3	TL-208	OH207-7938-06	11/20/07 21:15	0.312	0.046	0.055	0.021
DOE 4.5.2.3	PO-209	OH207-7938-06	11/20/07 21:15	-0.981	2.49	2.49	4.26
DOE 4.5.2.3	BI-211	OH207-7938-06	11/20/07 21:15	0.037	0.392	0.392	0.697
DOE 4.5.2.3	BI-212	OH207-7938-06	11/20/07 21:15	0.485	0.207	0.213	0.164
DOE 4.5.2.3	PB-212	OH207-7938-06	11/20/07 21:15	0.730	0.080	0.109	0.054
DOE 4.5.2.3	BI-214	OH207-7938-06	11/20/07 21:15	0.534	0.085	0.100	0.048
DOE 4.5.2.3	PB-214	OH207-7938-06	11/20/07 21:15	0.512	0.068	0.085	0.048
DOE 4.5.2.3	RA-223	OH207-7938-06	11/20/07 21:15	0.319	0.124	0.128	0.119
DOE 4.5.2.3	AC-228	OH207-7938-06	11/20/07 21:15	0.884	0.128	0.155	0.076
DOE 4.5.2.3	PA-233	OH207-7938-06	11/20/07 21:15	0.003	0.025	0.025	0.043
DOE 4.5.2.3	PA-234M	OH207-7938-06	11/20/07 21:15	1.16	1.47	1.47	2.80
DOE 4.5.2.3	TH-234	OH207-7938-06	11/20/07 21:15	1.38	0.419	0.441	0.435
DOE 4.5.2.3	U-235	OH207-7938-06	11/20/07 21:15	-0.072	0.095	0.095	0.154
DOE 4.5.2.3	NP-236	OH207-7938-06	11/20/07 21:15	0.004	-0.034	0.034	0.052
DOE 4.5.2.3	NP-237	OH207-7938-06	11/20/07 21:15	0.578	0.167	0.177	0.227
DOE 4.5.2.3	NP-239	OH207-7938-06	11/20/07 21:15	-0.024	0.098	0.098	0.158
DOE 4.5.2.3	AM-241	OH207-7938-06	11/20/07 21:15	-0.010	0.100	0.100	0.155
DOE 4.5.2.3	AM-243	OH207-7938-06	11/20/07 21:15	0.186	0.057	0.060	0.048
DOE 4.5.2.3	CM-243	OH207-7938-06	11/20/07 21:15	0.011	0.049	0.049	0.084
DOE 4.5.2.3	AM-246	OH207-7938-06	11/20/07 21:15	-0.011	0.045	0.045	0.076
DOE 4.5.2.3	CF-249	OH207-7938-06	11/20/07 21:15	0.008	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2216-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-07	11/20/07 21:20	1.12	0.287	0.308	0.174
DOE 4.5.2.3	CO-60	OH207-7938-07	11/20/07 21:20	-3.1e-04	0.010	0.010	0.016
DOE 4.5.2.3	RH-101	OH207-7938-07	11/20/07 21:20	0.009	0.012	0.012	0.020
DOE 4.5.2.3	SB-125	OH207-7938-07	11/20/07 21:20	0.006	0.032	0.032	0.055
DOE 4.5.2.3	CS-137	OH207-7938-07	11/20/07 21:20	0.008	0.013	0.013	0.024
DOE 4.5.2.3	EU-155	OH207-7938-07	11/20/07 21:20	0.032	0.045	0.045	0.077
DOE 4.5.2.3	TL-208	OH207-7938-07	11/20/07 21:20	0.184	0.032	0.037	0.021
DOE 4.5.2.3	PO-209	OH207-7938-07	11/20/07 21:20	0.236	1.93	1.93	3.50
DOE 4.5.2.3	BI-211	OH207-7938-07	11/20/07 21:20	-0.296	0.311	0.313	0.501
DOE 4.5.2.3	BI-212	OH207-7938-07	11/20/07 21:20	0.570	0.175	0.184	0.139
DOE 4.5.2.3	PB-212	OH207-7938-07	11/20/07 21:20	0.521	0.054	0.075	0.032
DOE 4.5.2.3	BI-214	OH207-7938-07	11/20/07 21:20	0.344	0.065	0.074	0.037
DOE 4.5.2.3	PB-214	OH207-7938-07	11/20/07 21:20	0.439	0.067	0.080	0.037
DOE 4.5.2.3	RA-223	OH207-7938-07	11/20/07 21:20	0.093	0.066	0.067	0.104
DOE 4.5.2.3	AC-228	OH207-7938-07	11/20/07 21:20	0.576	0.099	0.114	0.068
DOE 4.5.2.3	PA-233	OH207-7938-07	11/20/07 21:20	0.008	0.021	0.021	0.037
DOE 4.5.2.3	PA-234M	OH207-7938-07	11/20/07 21:20	0.442	1.32	1.32	2.41
DOE 4.5.2.3	TH-234	OH207-7938-07	11/20/07 21:20	0.949	0.344	0.357	0.356
DOE 4.5.2.3	U-235	OH207-7938-07	11/20/07 21:20	0.097	0.077	0.078	0.132
DOE 4.5.2.3	NP-236	OH207-7938-07	11/20/07 21:20	0.008	0.026	0.026	0.044
DOE 4.5.2.3	NP-237	OH207-7938-07	11/20/07 21:20	0.309	0.132	0.135	0.178
DOE 4.5.2.3	NP-239	OH207-7938-07	11/20/07 21:20	-0.021	0.078	0.078	0.134
DOE 4.5.2.3	AM-241	OH207-7938-07	11/20/07 21:20	0.036	0.071	0.071	0.112
DOE 4.5.2.3	AM-243	OH207-7938-07	11/20/07 21:20	0.094	0.034	0.035	0.039
DOE 4.5.2.3	CM-243	OH207-7938-07	11/20/07 21:20	0.010	0.040	0.040	0.068
DOE 4.5.2.3	AM-246	OH207-7938-07	11/20/07 21:20	0.025	0.039	0.039	0.073
DOE 4.5.2.3	CF-249	OH207-7938-07	11/20/07 21:20	0.006	0.014	0.014	0.024

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2217-SD
Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-08	11/20/07 21:24	5.78	0.653	0.872	0.320
DOE 4.5.2.3	CO-60	OH207-7938-08	11/20/07 21:24	0.006	0.022	0.022	0.036
DOE 4.5.2.3	RH-101	OH207-7938-08	11/20/07 21:24	0.015	0.022	0.022	0.037
DOE 4.5.2.3	SB-125	OH207-7938-08	11/20/07 21:24	0.007	0.056	0.056	0.099
DOE 4.5.2.3	CS-137	OH207-7938-08	11/20/07 21:24	0.070	0.040	0.040	0.040
DOE 4.5.2.3	EU-155	OH207-7938-08	11/20/07 21:24	0.143	0.068	0.070	0.108
DOE 4.5.2.3	TL-208	OH207-7938-08	11/20/07 21:24	0.393	0.054	0.066	0.036
DOE 4.5.2.3	PO-209	OH207-7938-08	11/20/07 21:24	-0.123	4.15	4.15	7.37
DOE 4.5.2.3	BI-211	OH207-7938-08	11/20/07 21:24	-0.264	0.657	0.657	1.09
DOE 4.5.2.3	BI-212	OH207-7938-08	11/20/07 21:24	0.693	0.247	0.257	0.294
DOE 4.5.2.3	PB-212	OH207-7938-08	11/20/07 21:24	1.12	0.109	0.157	0.060
DOE 4.5.2.3	BI-214	OH207-7938-08	11/20/07 21:24	0.760	0.112	0.136	0.066
DOE 4.5.2.3	PB-214	OH207-7938-08	11/20/07 21:24	0.834	0.113	0.141	0.068
DOE 4.5.2.3	RA-223	OH207-7938-08	11/20/07 21:24	0.433	0.213	0.217	0.182
DOE 4.5.2.3	AC-228	OH207-7938-08	11/20/07 21:24	1.13	0.188	0.219	0.126
DOE 4.5.2.3	PA-233	OH207-7938-08	11/20/07 21:24	0.018	0.040	0.040	0.068
DOE 4.5.2.3	PA-234M	OH207-7938-08	11/20/07 21:24	0.968	2.57	2.57	4.70
DOE 4.5.2.3	TH-234	OH207-7938-08	11/20/07 21:24	1.37	0.456	0.476	0.400
DOE 4.5.2.3	U-235	OH207-7938-08	11/20/07 21:24	0.143	0.132	0.133	0.230
DOE 4.5.2.3	NP-236	OH207-7938-08	11/20/07 21:24	0.024	0.038	0.038	0.058
DOE 4.5.2.3	NP-237	OH207-7938-08	11/20/07 21:24	0.418	0.173	0.178	0.213
DOE 4.5.2.3	NP-239	OH207-7938-08	11/20/07 21:24	-0.007	0.141	0.141	0.238
DOE 4.5.2.3	AM-241	OH207-7938-08	11/20/07 21:24	0.058	0.045	0.045	0.068
DOE 4.5.2.3	AM-243	OH207-7938-08	11/20/07 21:24	0.200	0.052	0.056	0.037
DOE 4.5.2.3	CM-243	OH207-7938-08	11/20/07 21:24	0.129	0.062	0.064	0.093
DOE 4.5.2.3	AM-246	OH207-7938-08	11/20/07 21:24	0.105	0.073	0.074	0.143
DOE 4.5.2.3	CF-249	OH207-7938-08	11/20/07 21:24	0.012	0.025	0.025	0.044

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2218-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-09	11/21/07 00:22	2.58	0.439	0.509	0.269
DOE 4.5.2.3	CO-60	OH207-7938-09	11/21/07 00:22	-0.003	0.013	0.013	0.022
DOE 4.5.2.3	RH-101	OH207-7938-09	11/21/07 00:22	-0.003	0.016	0.016	0.025
DOE 4.5.2.3	SB-125	OH207-7938-09	11/21/07 00:22	-0.016	0.041	0.041	0.068
DOE 4.5.2.3	CS-137	OH207-7938-09	11/21/07 00:22	0.020	0.017	0.017	0.032
DOE 4.5.2.3	EU-155	OH207-7938-09	11/21/07 00:22	0.051	0.057	0.058	0.099
DOE 4.5.2.3	TL-208	OH207-7938-09	11/21/07 00:22	0.243	0.042	0.048	0.026
DOE 4.5.2.3	PO-209	OH207-7938-09	11/21/07 00:22	-1.10	2.90	2.91	4.93
DOE 4.5.2.3	BI-211	OH207-7938-09	11/21/07 00:22	-0.204	0.447	0.448	0.756
DOE 4.5.2.3	BI-212	OH207-7938-09	11/21/07 00:22	0.716	0.248	0.258	0.187
DOE 4.5.2.3	PB-212	OH207-7938-09	11/21/07 00:22	0.767	0.077	0.109	0.041
DOE 4.5.2.3	BI-214	OH207-7938-09	11/21/07 00:22	0.508	0.085	0.099	0.048
DOE 4.5.2.3	PB-214	OH207-7938-09	11/21/07 00:22	0.533	0.079	0.095	0.051
DOE 4.5.2.3	RA-223	OH207-7938-09	11/21/07 00:22	0.285	0.151	0.154	0.128
DOE 4.5.2.3	AC-228	OH207-7938-09	11/21/07 00:22	0.818	0.139	0.161	0.085
DOE 4.5.2.3	PA-233	OH207-7938-09	11/21/07 00:22	0.003	0.028	0.028	0.048
DOE 4.5.2.3	PA-234M	OH207-7938-09	11/21/07 00:22	1.38	1.71	1.72	3.26
DOE 4.5.2.3	TH-234	OH207-7938-09	11/21/07 00:22	1.75	0.434	0.468	0.602
DOE 4.5.2.3	U-235	OH207-7938-09	11/21/07 00:22	0.125	0.098	0.099	0.170
DOE 4.5.2.3	NP-236	OH207-7938-09	11/21/07 00:22	0.007	0.034	0.034	0.055
DOE 4.5.2.3	NP-237	OH207-7938-09	11/21/07 00:22	0.532	0.175	0.183	0.200
DOE 4.5.2.3	NP-239	OH207-7938-09	11/21/07 00:22	0.075	0.099	0.099	0.176
DOE 4.5.2.3	AM-241	OH207-7938-09	11/21/07 00:22	-0.004	0.092	0.092	0.158
DOE 4.5.2.3	AM-243	OH207-7938-09	11/21/07 00:22	0.170	0.051	0.054	0.051
DOE 4.5.2.3	CM-243	OH207-7938-09	11/21/07 00:22	0.012	0.052	0.052	0.088
DOE 4.5.2.3	AM-246	OH207-7938-09	11/21/07 00:22	0.010	0.052	0.052	0.093
DOE 4.5.2.3	CF-249	OH207-7938-09	11/21/07 00:22	0.014	0.019	0.019	0.033

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2219-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-10	11/21/07 08:41	8.42	0.754	1.13	0.201
DOE 4.5.2.3	CO-60	OH207-7938-10	11/21/07 08:41	-6.6e-04	0.015	0.015	0.024
DOE 4.5.2.3	RH-101	OH207-7938-10	11/21/07 08:41	-0.003	0.016	0.016	0.026
DOE 4.5.2.3	SB-125	OH207-7938-10	11/21/07 08:41	0.037	0.039	0.039	0.069
DOE 4.5.2.3	CS-137	OH207-7938-10	11/21/07 08:41	0.008	0.015	0.015	0.028
DOE 4.5.2.3	EU-155	OH207-7938-10	11/21/07 08:41	0.022	0.056	0.056	0.093
DOE 4.5.2.3	TL-208	OH207-7938-10	11/21/07 08:41	0.360	0.051	0.062	0.026
DOE 4.5.2.3	PO-209	OH207-7938-10	11/21/07 08:41	0.658	2.82	2.82	4.95
DOE 4.5.2.3	BI-211	OH207-7938-10	11/21/07 08:41	-0.421	0.420	0.423	0.678
DOE 4.5.2.3	BI-212	OH207-7938-10	11/21/07 08:41	0.748	0.206	0.219	0.193
DOE 4.5.2.3	PB-212	OH207-7938-10	11/21/07 08:41	1.00	0.091	0.135	0.042
DOE 4.5.2.3	BI-214	OH207-7938-10	11/21/07 08:41	0.920	0.125	0.155	0.046
DOE 4.5.2.3	PB-214	OH207-7938-10	11/21/07 08:41	0.896	0.096	0.131	0.046
DOE 4.5.2.3	RA-223	OH207-7938-10	11/21/07 08:41	0.329	0.122	0.127	0.127
DOE 4.5.2.3	AC-228	OH207-7938-10	11/21/07 08:41	1.14	0.169	0.203	0.097
DOE 4.5.2.3	PA-233	OH207-7938-10	11/21/07 08:41	0.003	0.026	0.026	0.045
DOE 4.5.2.3	PA-234M	OH207-7938-10	11/21/07 08:41	0.670	1.76	1.76	3.09
DOE 4.5.2.3	TH-234	OH207-7938-10	11/21/07 08:41	1.32	0.409	0.430	0.538
DOE 4.5.2.3	U-235	OH207-7938-10	11/21/07 08:41	-0.100	0.101	0.102	0.161
DOE 4.5.2.3	NP-236	OH207-7938-10	11/21/07 08:41	0.018	0.032	0.032	0.054
DOE 4.5.2.3	NP-237	OH207-7938-10	11/21/07 08:41	0.505	0.179	0.186	0.201
DOE 4.5.2.3	NP-239	OH207-7938-10	11/21/07 08:41	0.037	0.095	0.095	0.166
DOE 4.5.2.3	AM-241	OH207-7938-10	11/21/07 08:41	0.019	0.079	0.079	0.136
DOE 4.5.2.3	AM-243	OH207-7938-10	11/21/07 08:41	0.208	0.058	0.061	0.047
DOE 4.5.2.3	CM-243	OH207-7938-10	11/21/07 08:41	0.048	0.050	0.051	0.086
DOE 4.5.2.3	AM-246	OH207-7938-10	11/21/07 08:41	-0.003	0.052	0.052	0.088
DOE 4.5.2.3	CF-249	OH207-7938-10	11/21/07 08:41	0.010	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2220-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-11	11/21/07 08:42	7.33	0.693	1.01	0.210
DOE 4.5.2.3	CO-60	OH207-7938-11	11/21/07 08:42	-0.001	0.017	0.017	0.030
DOE 4.5.2.3	RH-101	OH207-7938-11	11/21/07 08:42	0.009	0.018	0.018	0.031
DOE 4.5.2.3	SB-125	OH207-7938-11	11/21/07 08:42	0.042	0.044	0.045	0.080
DOE 4.5.2.3	CS-137	OH207-7938-11	11/21/07 08:42	0.023	0.021	0.021	0.037
DOE 4.5.2.3	EU-155	OH207-7938-11	11/21/07 08:42	0.010	0.052	0.052	0.089
DOE 4.5.2.3	TL-208	OH207-7938-11	11/21/07 08:42	0.399	0.052	0.066	0.031
DOE 4.5.2.3	PO-209	OH207-7938-11	11/21/07 08:42	2.98	3.21	3.22	5.91
DOE 4.5.2.3	BI-211	OH207-7938-11	11/21/07 08:42	-0.483	0.530	0.532	0.844
DOE 4.5.2.3	BI-212	OH207-7938-11	11/21/07 08:42	0.842	0.281	0.293	0.239
DOE 4.5.2.3	PB-212	OH207-7938-11	11/21/07 08:42	1.18	0.105	0.158	0.049
DOE 4.5.2.3	BI-214	OH207-7938-11	11/21/07 08:42	0.822	0.097	0.127	0.053
DOE 4.5.2.3	PB-214	OH207-7938-11	11/21/07 08:42	0.921	0.110	0.143	0.057
DOE 4.5.2.3	RA-223	OH207-7938-11	11/21/07 08:42	0.374	0.138	0.143	0.153
DOE 4.5.2.3	AC-228	OH207-7938-11	11/21/07 08:42	1.35	0.184	0.229	0.111
DOE 4.5.2.3	PA-233	OH207-7938-11	11/21/07 08:42	-0.018	0.032	0.032	0.052
DOE 4.5.2.3	PA-234M	OH207-7938-11	11/21/07 08:42	0.597	1.94	1.94	3.50
DOE 4.5.2.3	TH-234	OH207-7938-11	11/21/07 08:42	1.67	0.428	0.459	0.352
DOE 4.5.2.3	U-235	OH207-7938-11	11/21/07 08:42	0.040	0.111	0.111	0.189
DOE 4.5.2.3	NP-236	OH207-7938-11	11/21/07 08:42	0.041	0.034	0.035	0.050
DOE 4.5.2.3	NP-237	OH207-7938-11	11/21/07 08:42	0.631	0.147	0.160	0.153
DOE 4.5.2.3	NP-239	OH207-7938-11	11/21/07 08:42	-0.084	0.119	0.120	0.196
DOE 4.5.2.3	AM-241	OH207-7938-11	11/21/07 08:42	0.076	0.035	0.036	0.054
DOE 4.5.2.3	AM-243	OH207-7938-11	11/21/07 08:42	0.204	0.049	0.053	0.029
DOE 4.5.2.3	CM-243	OH207-7938-11	11/21/07 08:42	-0.003	0.047	0.047	0.081
DOE 4.5.2.3	AM-246	OH207-7938-11	11/21/07 08:42	-0.045	0.058	0.059	0.096
DOE 4.5.2.3	CF-249	OH207-7938-11	11/21/07 08:42	0.019	0.020	0.020	0.035

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2221-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-12	11/21/07 11:45	5.66	0.551	0.790	0.185
DOE 4.5.2.3	CO-60	OH207-7938-12	11/21/07 11:45	-0.004	0.014	0.014	0.023
DOE 4.5.2.3	RH-101	OH207-7938-12	11/21/07 11:45	7.1e-04	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7938-12	11/21/07 11:45	0.039	0.038	0.038	0.067
DOE 4.5.2.3	CS-137	OH207-7938-12	11/21/07 11:45	0.034	0.025	0.025	0.025
DOE 4.5.2.3	EU-155	OH207-7938-12	11/21/07 11:45	0.023	0.053	0.053	0.090
DOE 4.5.2.3	TL-208	OH207-7938-12	11/21/07 11:45	0.336	0.048	0.059	0.024
DOE 4.5.2.3	PO-209	OH207-7938-12	11/21/07 11:45	1.33	2.68	2.68	4.79
DOE 4.5.2.3	BI-211	OH207-7938-12	11/21/07 11:45	-0.041	0.383	0.383	0.661
DOE 4.5.2.3	BI-212	OH207-7938-12	11/21/07 11:45	0.522	0.186	0.193	0.180
DOE 4.5.2.3	PB-212	OH207-7938-12	11/21/07 11:45	0.855	0.080	0.117	0.041
DOE 4.5.2.3	BI-214	OH207-7938-12	11/21/07 11:45	0.752	0.106	0.130	0.047
DOE 4.5.2.3	PB-214	OH207-7938-12	11/21/07 11:45	0.838	0.092	0.124	0.046
DOE 4.5.2.3	RA-223	OH207-7938-12	11/21/07 11:45	0.263	0.127	0.130	0.122
DOE 4.5.2.3	AC-228	OH207-7938-12	11/21/07 11:45	0.997	0.148	0.178	0.085
DOE 4.5.2.3	PA-233	OH207-7938-12	11/21/07 11:45	-4.8e-04	0.025	0.025	0.043
DOE 4.5.2.3	PA-234M	OH207-7938-12	11/21/07 11:45	0.208	1.54	1.54	2.70
DOE 4.5.2.3	TH-234	OH207-7938-12	11/21/07 11:45	1.22	0.382	0.401	0.506
DOE 4.5.2.3	U-235	OH207-7938-12	11/21/07 11:45	0.059	0.096	0.096	0.159
DOE 4.5.2.3	NP-236	OH207-7938-12	11/21/07 11:45	-0.020	0.031	0.031	0.051
DOE 4.5.2.3	NP-237	OH207-7938-12	11/21/07 11:45	0.419	0.164	0.170	0.193
DOE 4.5.2.3	NP-239	OH207-7938-12	11/21/07 11:45	-0.062	0.093	0.093	0.157
DOE 4.5.2.3	AM-241	OH207-7938-12	11/21/07 11:45	-0.033	0.077	0.077	0.129
DOE 4.5.2.3	AM-243	OH207-7938-12	11/21/07 11:45	0.214	0.063	0.066	0.043
DOE 4.5.2.3	CM-243	OH207-7938-12	11/21/07 11:45	-0.036	0.049	0.049	0.079
DOE 4.5.2.3	AM-246	OH207-7938-12	11/21/07 11:45	0.044	0.050	0.050	0.091
DOE 4.5.2.3	CF-249	OH207-7938-12	11/21/07 11:45	-0.007	0.016	0.016	0.027

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2222-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-13	11/21/07 11:46	4.94	0.522	0.718	0.227
DOE 4.5.2.3	CO-60	OH207-7938-13	11/21/07 11:46	8.1e-04	0.017	0.017	0.025
DOE 4.5.2.3	RH-101	OH207-7938-13	11/21/07 11:46	-0.003	0.017	0.017	0.029
DOE 4.5.2.3	SB-125	OH207-7938-13	11/21/07 11:46	0.003	0.043	0.043	0.076
DOE 4.5.2.3	CS-137	OH207-7938-13	11/21/07 11:46	0.018	0.018	0.018	0.033
DOE 4.5.2.3	EU-155	OH207-7938-13	11/21/07 11:46	0.058	0.050	0.050	0.088
DOE 4.5.2.3	TL-208	OH207-7938-13	11/21/07 11:46	0.342	0.046	0.057	0.029
DOE 4.5.2.3	PO-209	OH207-7938-13	11/21/07 11:46	-0.117	3.21	3.21	5.67
DOE 4.5.2.3	BI-211	OH207-7938-13	11/21/07 11:46	-0.238	0.510	0.511	0.841
DOE 4.5.2.3	BI-212	OH207-7938-13	11/21/07 11:46	0.598	0.203	0.212	0.218
DOE 4.5.2.3	PB-212	OH207-7938-13	11/21/07 11:46	1.05	0.097	0.143	0.046
DOE 4.5.2.3	BI-214	OH207-7938-13	11/21/07 11:46	0.649	0.084	0.106	0.054
DOE 4.5.2.3	PB-214	OH207-7938-13	11/21/07 11:46	0.690	0.092	0.115	0.054
DOE 4.5.2.3	RA-223	OH207-7938-13	11/21/07 11:46	0.366	0.139	0.143	0.143
DOE 4.5.2.3	AC-228	OH207-7938-13	11/21/07 11:46	1.16	0.168	0.204	0.097
DOE 4.5.2.3	PA-233	OH207-7938-13	11/21/07 11:46	0.007	0.031	0.031	0.053
DOE 4.5.2.3	PA-234M	OH207-7938-13	11/21/07 11:46	1.22	2.02	2.02	3.72
DOE 4.5.2.3	TH-234	OH207-7938-13	11/21/07 11:46	1.06	0.376	0.390	0.322
DOE 4.5.2.3	U-235	OH207-7938-13	11/21/07 11:46	0.112	0.104	0.105	0.180
DOE 4.5.2.3	NP-236	OH207-7938-13	11/21/07 11:46	0.036	0.032	0.032	0.047
DOE 4.5.2.3	NP-237	OH207-7938-13	11/21/07 11:46	0.261	0.132	0.135	0.169
DOE 4.5.2.3	NP-239	OH207-7938-13	11/21/07 11:46	0.011	0.111	0.111	0.188
DOE 4.5.2.3	AM-241	OH207-7938-13	11/21/07 11:46	0.018	0.034	0.034	0.050
DOE 4.5.2.3	AM-243	OH207-7938-13	11/21/07 11:46	0.161	0.043	0.046	0.028
DOE 4.5.2.3	CM-243	OH207-7938-13	11/21/07 11:46	0.010	0.045	0.045	0.078
DOE 4.5.2.3	AM-246	OH207-7938-13	11/21/07 11:46	0.058	0.059	0.059	0.110
DOE 4.5.2.3	CF-249	OH207-7938-13	11/21/07 11:46	0.008	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2223-SD

Other Sample ID: Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7938 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7938-14	11/21/07 14:50	0.050	0.158	0.158	0.333
DOE 4.5.2.3	CO-60	OH207-7938-14	11/21/07 14:50	0.006	0.010	0.010	0.021
DOE 4.5.2.3	RH-101	OH207-7938-14	11/21/07 14:50	-0.006	0.013	0.013	0.020
DOE 4.5.2.3	SB-125	OH207-7938-14	11/21/07 14:50	-0.020	0.032	0.032	0.053
DOE 4.5.2.3	CS-137	OH207-7938-14	11/21/07 14:50	0.002	0.014	0.014	0.025
DOE 4.5.2.3	EU-155	OH207-7938-14	11/21/07 14:50	0.003	0.045	0.045	0.076
DOE 4.5.2.3	TL-208	OH207-7938-14	11/21/07 14:50	0.086	0.030	0.031	0.042
DOE 4.5.2.3	PO-209	OH207-7938-14	11/21/07 14:50	0.262	2.34	2.34	4.26
DOE 4.5.2.3	BI-211	OH207-7938-14	11/21/07 14:50	0.041	0.292	0.292	0.539
DOE 4.5.2.3	BI-212	OH207-7938-14	11/21/07 14:50	0.149	0.155	0.156	0.170
DOE 4.5.2.3	PB-212	OH207-7938-14	11/21/07 14:50	0.283	0.039	0.048	0.035
DOE 4.5.2.3	BI-214	OH207-7938-14	11/21/07 14:50	0.154	0.047	0.049	0.041
DOE 4.5.2.3	PB-214	OH207-7938-14	11/21/07 14:50	0.185	0.047	0.050	0.039
DOE 4.5.2.3	RA-223	OH207-7938-14	11/21/07 14:50	0.120	0.065	0.066	0.122
DOE 4.5.2.3	AC-228	OH207-7938-14	11/21/07 14:50	0.351	0.087	0.093	0.079
DOE 4.5.2.3	PA-233	OH207-7938-14	11/21/07 14:50	2.5e-05	0.022	0.022	0.039
DOE 4.5.2.3	PA-234M	OH207-7938-14	11/21/07 14:50	0.344	1.24	1.24	2.35
DOE 4.5.2.3	TH-234	OH207-7938-14	11/21/07 14:50	0.325	0.280	0.282	0.430
DOE 4.5.2.3	U-235	OH207-7938-14	11/21/07 14:50	0.101	0.079	0.079	0.138
DOE 4.5.2.3	NP-236	OH207-7938-14	11/21/07 14:50	0.002	0.025	0.025	0.043
DOE 4.5.2.3	NP-237	OH207-7938-14	11/21/07 14:50	0.166	0.101	0.102	0.170
DOE 4.5.2.3	NP-239	OH207-7938-14	11/21/07 14:50	0.008	0.076	0.076	0.135
DOE 4.5.2.3	AM-241	OH207-7938-14	11/21/07 14:50	-0.009	0.065	0.065	0.112
DOE 4.5.2.3	AM-243	OH207-7938-14	11/21/07 14:50	0.076	0.030	0.031	0.037
DOE 4.5.2.3	CM-243	OH207-7938-14	11/21/07 14:50	-0.014	0.041	0.041	0.068
DOE 4.5.2.3	AM-246	OH207-7938-14	11/21/07 14:50	-0.012	0.034	0.034	0.058
DOE 4.5.2.3	CF-249	OH207-7938-14	11/21/07 14:50	0.009	0.013	0.013	0.024

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	CO-60	SCAQC-7933-LC1	11/15/07 10:24	30.7	1.93	3.63	0.096
DOE 4.5.2.3	CS-137	SCAQC-7933-LC1	11/15/07 10:24	31.0	3.36	4.57	0.162
DOE 4.5.2.3	AM-241	SCAQC-7933-LC1	11/15/07 10:24	74.0	6.08	9.57	1.03

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil

Site Sample ID: N/A

Other Sample ID: LC1 Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00

Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	CO-60	SCAQC-7934-LC1	11/17/07 11:13	31.1	1.95	3.67	0.089
DOE 4.5.2.3	CS-137	SCAQC-7934-LC1	11/17/07 11:13	31.2	3.38	4.61	0.163
DOE 4.5.2.3	AM-241	SCAQC-7934-LC1	11/17/07 11:13	75.5	6.19	9.76	1.00

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil

Site Sample ID: N/A

Other Sample ID: LC1 Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00

Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	CO-60	SCAQC-7935-LC1	11/17/07 15:39	31.3	1.80	3.61	0.106
DOE 4.5.2.3	CS-137	SCAQC-7935-LC1	11/17/07 15:39	30.6	3.51	4.65	0.168
DOE 4.5.2.3	AM-241	SCAQC-7935-LC1	11/17/07 15:39	74.8	5.05	9.02	0.997

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7935-LC1	SCAQC-7935-LD1		SCAQC-7935-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	CO-60	SCAQC-7936-LC1	11/18/07 15:02	31.3	1.96	3.69	0.090
DOE 4.5.2.3	CS-137	SCAQC-7936-LC1	11/18/07 15:02	30.6	3.31	4.50	0.165
DOE 4.5.2.3	AM-241	SCAQC-7936-LC1	11/18/07 15:02	74.4	6.15	9.65	1.01

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7936-LC1	SCAQC-7936-LD1		SCAQC-7936-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	CO-60	SCAQC-7937-LC1	11/20/07 15:09	31.4	1.80	3.62	0.095
DOE 4.5.2.3	CS-137	SCAQC-7937-LC1	11/20/07 15:09	30.6	3.51	4.66	0.167
DOE 4.5.2.3	AM-241	SCAQC-7937-LC1	11/20/07 15:09	75.2	5.07	9.06	0.971

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	CO-60	SCAQC-7938-LC1	11/20/07 16:20	30.7	1.76	3.54	0.097
DOE 4.5.2.3	CS-137	SCAQC-7938-LC1	11/20/07 16:20	30.3	3.47	4.60	0.165
DOE 4.5.2.3	AM-241	SCAQC-7938-LC1	11/20/07 16:20	79.3	5.43	9.61	0.986

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2191-ST

Other Sample ID: LD1 Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7933-LD1	11/14/07 18:01	3.51	0.506	0.615	0.222
DOE 4.5.2.3	CO-60	SCAQC-7933-LD1	11/14/07 18:01	-0.013	0.016	0.016	0.026
DOE 4.5.2.3	RH-101	SCAQC-7933-LD1	11/14/07 18:01	-0.004	0.018	0.018	0.030
DOE 4.5.2.3	SB-125	SCAQC-7933-LD1	11/14/07 18:01	0.034	0.045	0.045	0.082
DOE 4.5.2.3	CS-137	SCAQC-7933-LD1	11/14/07 18:01	0.137	0.040	0.042	0.032
DOE 4.5.2.3	EU-155	SCAQC-7933-LD1	11/14/07 18:01	0.052	0.050	0.050	0.088
DOE 4.5.2.3	TL-208	SCAQC-7933-LD1	11/14/07 18:01	0.271	0.044	0.052	0.030
DOE 4.5.2.3	PO-209	SCAQC-7933-LD1	11/14/07 18:01	3.62	3.32	3.34	6.31
DOE 4.5.2.3	BI-211	SCAQC-7933-LD1	11/14/07 18:01	-0.787	0.544	0.549	0.819
DOE 4.5.2.3	BI-212	SCAQC-7933-LD1	11/14/07 18:01	0.354	0.231	0.234	0.241
DOE 4.5.2.3	PB-212	SCAQC-7933-LD1	11/14/07 18:01	0.792	0.083	0.115	0.048
DOE 4.5.2.3	BI-214	SCAQC-7933-LD1	11/14/07 18:01	0.629	0.093	0.112	0.055
DOE 4.5.2.3	PB-214	SCAQC-7933-LD1	11/14/07 18:01	0.670	0.095	0.116	0.060
DOE 4.5.2.3	RA-223	SCAQC-7933-LD1	11/14/07 18:01	0.367	0.130	0.135	0.136
DOE 4.5.2.3	AC-228	SCAQC-7933-LD1	11/14/07 18:01	0.814	0.154	0.174	0.118
DOE 4.5.2.3	PA-233	SCAQC-7933-LD1	11/14/07 18:01	-0.004	0.034	0.034	0.056
DOE 4.5.2.3	PA-234M	SCAQC-7933-LD1	11/14/07 18:01	-0.250	2.11	2.11	3.74
DOE 4.5.2.3	TH-234	SCAQC-7933-LD1	11/14/07 18:01	0.779	0.274	0.285	0.482
DOE 4.5.2.3	U-235	SCAQC-7933-LD1	11/14/07 18:01	0.012	0.108	0.108	0.184
DOE 4.5.2.3	NP-236	SCAQC-7933-LD1	11/14/07 18:01	0.031	0.033	0.033	0.049
DOE 4.5.2.3	NP-237	SCAQC-7933-LD1	11/14/07 18:01	0.492	0.135	0.144	0.151
DOE 4.5.2.3	NP-239	SCAQC-7933-LD1	11/14/07 18:01	0.083	0.112	0.113	0.194
DOE 4.5.2.3	AM-241	SCAQC-7933-LD1	11/14/07 18:01	0.043	0.036	0.036	0.054
DOE 4.5.2.3	AM-243	SCAQC-7933-LD1	11/14/07 18:01	0.160	0.044	0.047	0.030
DOE 4.5.2.3	CM-243	SCAQC-7933-LD1	11/14/07 18:01	-0.017	0.045	0.045	0.077
DOE 4.5.2.3	AM-246	SCAQC-7933-LD1	11/14/07 18:01	0.037	0.059	0.060	0.111
DOE 4.5.2.3	CF-249	SCAQC-7933-LD1	11/14/07 18:01	-0.010	0.020	0.020	0.033

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7933-LD1	OH207-7933-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2191-ST				
Other Sample ID:	LD1	Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

	Quality Control Samples			
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CA-SS-2191-SD
Other Sample ID: LD1 Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7934-LD1	11/16/07 12:08	3.45	0.490	0.599	0.228
DOE 4.5.2.3	CO-60	SCAQC-7934-LD1	11/16/07 12:08	0.008	0.015	0.015	0.024
DOE 4.5.2.3	RH-101	SCAQC-7934-LD1	11/16/07 12:08	-0.014	0.016	0.016	0.025
DOE 4.5.2.3	SB-125	SCAQC-7934-LD1	11/16/07 12:08	0.002	0.041	0.041	0.070
DOE 4.5.2.3	CS-137	SCAQC-7934-LD1	11/16/07 12:08	0.096	0.035	0.036	0.025
DOE 4.5.2.3	EU-155	SCAQC-7934-LD1	11/16/07 12:08	0.064	0.054	0.055	0.094
DOE 4.5.2.3	TL-208	SCAQC-7934-LD1	11/16/07 12:08	0.211	0.040	0.046	0.028
DOE 4.5.2.3	PO-209	SCAQC-7934-LD1	11/16/07 12:08	-1.27	2.84	2.85	4.78
DOE 4.5.2.3	BI-211	SCAQC-7934-LD1	11/16/07 12:08	-0.615	0.426	0.430	0.649
DOE 4.5.2.3	BI-212	SCAQC-7934-LD1	11/16/07 12:08	0.460	0.174	0.180	0.203
DOE 4.5.2.3	PB-212	SCAQC-7934-LD1	11/16/07 12:08	0.748	0.074	0.105	0.039
DOE 4.5.2.3	BI-214	SCAQC-7934-LD1	11/16/07 12:08	0.475	0.086	0.098	0.048
DOE 4.5.2.3	PB-214	SCAQC-7934-LD1	11/16/07 12:08	0.596	0.077	0.098	0.050
DOE 4.5.2.3	RA-223	SCAQC-7934-LD1	11/16/07 12:08	0.252	0.112	0.115	0.123
DOE 4.5.2.3	AC-228	SCAQC-7934-LD1	11/16/07 12:08	0.821	0.146	0.168	0.084
DOE 4.5.2.3	PA-233	SCAQC-7934-LD1	11/16/07 12:08	-0.018	0.027	0.028	0.046
DOE 4.5.2.3	PA-234M	SCAQC-7934-LD1	11/16/07 12:08	0.408	1.84	1.84	3.28
DOE 4.5.2.3	TH-234	SCAQC-7934-LD1	11/16/07 12:08	0.761	0.522	0.527	0.425
DOE 4.5.2.3	U-235	SCAQC-7934-LD1	11/16/07 12:08	0.057	0.099	0.100	0.167
DOE 4.5.2.3	NP-236	SCAQC-7934-LD1	11/16/07 12:08	0.016	0.032	0.032	0.053
DOE 4.5.2.3	NP-237	SCAQC-7934-LD1	11/16/07 12:08	0.388	0.174	0.178	0.223
DOE 4.5.2.3	NP-239	SCAQC-7934-LD1	11/16/07 12:08	0.048	0.098	0.098	0.173
DOE 4.5.2.3	AM-241	SCAQC-7934-LD1	11/16/07 12:08	0.052	0.091	0.091	0.144
DOE 4.5.2.3	AM-243	SCAQC-7934-LD1	11/16/07 12:08	0.183	0.054	0.057	0.047
DOE 4.5.2.3	CM-243	SCAQC-7934-LD1	11/16/07 12:08	-0.040	0.050	0.050	0.081
DOE 4.5.2.3	AM-246	SCAQC-7934-LD1	11/16/07 12:08	0.015	0.048	0.048	0.087
DOE 4.5.2.3	CF-249	SCAQC-7934-LD1	11/16/07 12:08	-0.004	0.017	0.017	0.029

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7934-LD1	OH207-7934-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CA-SS-2191-SD				
Other Sample ID:	LD1	Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil

Site Sample ID: SB-CA-SS-2205-ST

Other Sample ID: LD1 Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7935-LD1	11/17/07 16:48	4.33	0.537	0.689	0.210
DOE 4.5.2.3	CO-60	SCAQC-7935-LD1	11/17/07 16:48	0.003	0.016	0.016	0.023
DOE 4.5.2.3	RH-101	SCAQC-7935-LD1	11/17/07 16:48	-0.009	0.016	0.016	0.025
DOE 4.5.2.3	SB-125	SCAQC-7935-LD1	11/17/07 16:48	0.022	0.040	0.040	0.070
DOE 4.5.2.3	CS-137	SCAQC-7935-LD1	11/17/07 16:48	0.149	0.034	0.037	0.025
DOE 4.5.2.3	EU-155	SCAQC-7935-LD1	11/17/07 16:48	0.051	0.055	0.055	0.094
DOE 4.5.2.3	TL-208	SCAQC-7935-LD1	11/17/07 16:48	0.265	0.043	0.051	0.024
DOE 4.5.2.3	PO-209	SCAQC-7935-LD1	11/17/07 16:48	-0.835	2.50	2.50	4.26
DOE 4.5.2.3	BI-211	SCAQC-7935-LD1	11/17/07 16:48	-0.229	0.429	0.429	0.718
DOE 4.5.2.3	BI-212	SCAQC-7935-LD1	11/17/07 16:48	0.680	0.198	0.209	0.184
DOE 4.5.2.3	PB-212	SCAQC-7935-LD1	11/17/07 16:48	0.830	0.080	0.115	0.041
DOE 4.5.2.3	BI-214	SCAQC-7935-LD1	11/17/07 16:48	0.581	0.094	0.110	0.048
DOE 4.5.2.3	PB-214	SCAQC-7935-LD1	11/17/07 16:48	0.730	0.085	0.112	0.046
DOE 4.5.2.3	RA-223	SCAQC-7935-LD1	11/17/07 16:48	0.289	0.128	0.131	0.129
DOE 4.5.2.3	AC-228	SCAQC-7935-LD1	11/17/07 16:48	0.990	0.163	0.190	0.091
DOE 4.5.2.3	PA-233	SCAQC-7935-LD1	11/17/07 16:48	9.2e-04	0.027	0.027	0.046
DOE 4.5.2.3	PA-234M	SCAQC-7935-LD1	11/17/07 16:48	0.224	1.79	1.79	3.15
DOE 4.5.2.3	TH-234	SCAQC-7935-LD1	11/17/07 16:48	0.889	0.355	0.366	0.419
DOE 4.5.2.3	U-235	SCAQC-7935-LD1	11/17/07 16:48	-0.005	0.097	0.097	0.159
DOE 4.5.2.3	NP-236	SCAQC-7935-LD1	11/17/07 16:48	0.004	0.031	0.031	0.052
DOE 4.5.2.3	NP-237	SCAQC-7935-LD1	11/17/07 16:48	0.555	0.175	0.183	0.198
DOE 4.5.2.3	NP-239	SCAQC-7935-LD1	11/17/07 16:48	-0.107	0.098	0.099	0.163
DOE 4.5.2.3	AM-241	SCAQC-7935-LD1	11/17/07 16:48	0.096	0.091	0.091	0.145
DOE 4.5.2.3	AM-243	SCAQC-7935-LD1	11/17/07 16:48	0.191	0.055	0.058	0.047
DOE 4.5.2.3	CM-243	SCAQC-7935-LD1	11/17/07 16:48	0.032	0.050	0.050	0.085
DOE 4.5.2.3	AM-246	SCAQC-7935-LD1	11/17/07 16:48	0.028	0.051	0.051	0.092
DOE 4.5.2.3	CF-249	SCAQC-7935-LD1	11/17/07 16:48	-0.004	0.017	0.017	0.029

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7935-LD1	OH207-7935-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CA-SS-2205-ST				
Other Sample ID:	LD1	Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7935-LC1	SCAQC-7935-LD1		SCAQC-7935-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #27/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2205-SD
Other Sample ID: LD1 Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7936-LD1	11/18/07 15:03	3.28	0.422	0.534	0.156
DOE 4.5.2.3	CO-60	SCAQC-7936-LD1	11/18/07 15:03	-0.001	0.013	0.013	0.022
DOE 4.5.2.3	RH-101	SCAQC-7936-LD1	11/18/07 15:03	-0.008	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	SCAQC-7936-LD1	11/18/07 15:03	0.037	0.036	0.036	0.064
DOE 4.5.2.3	CS-137	SCAQC-7936-LD1	11/18/07 15:03	0.037	0.035	0.036	0.026
DOE 4.5.2.3	EU-155	SCAQC-7936-LD1	11/18/07 15:03	0.049	0.054	0.054	0.092
DOE 4.5.2.3	TL-208	SCAQC-7936-LD1	11/18/07 15:03	0.348	0.051	0.062	0.024
DOE 4.5.2.3	PO-209	SCAQC-7936-LD1	11/18/07 15:03	1.26	2.69	2.69	4.88
DOE 4.5.2.3	BI-211	SCAQC-7936-LD1	11/18/07 15:03	-0.240	0.426	0.427	0.712
DOE 4.5.2.3	BI-212	SCAQC-7936-LD1	11/18/07 15:03	0.676	0.169	0.182	0.191
DOE 4.5.2.3	PB-212	SCAQC-7936-LD1	11/18/07 15:03	0.862	0.081	0.118	0.039
DOE 4.5.2.3	BI-214	SCAQC-7936-LD1	11/18/07 15:03	0.430	0.075	0.086	0.041
DOE 4.5.2.3	PB-214	SCAQC-7936-LD1	11/18/07 15:03	0.516	0.074	0.091	0.044
DOE 4.5.2.3	RA-223	SCAQC-7936-LD1	11/18/07 15:03	0.187	0.088	0.089	0.121
DOE 4.5.2.3	AC-228	SCAQC-7936-LD1	11/18/07 15:03	1.01	0.149	0.180	0.085
DOE 4.5.2.3	PA-233	SCAQC-7936-LD1	11/18/07 15:03	0.010	0.027	0.027	0.046
DOE 4.5.2.3	PA-234M	SCAQC-7936-LD1	11/18/07 15:03	-0.062	1.60	1.60	2.79
DOE 4.5.2.3	TH-234	SCAQC-7936-LD1	11/18/07 15:03	1.27	0.387	0.408	0.384
DOE 4.5.2.3	U-235	SCAQC-7936-LD1	11/18/07 15:03	0.079	0.095	0.095	0.160
DOE 4.5.2.3	NP-236	SCAQC-7936-LD1	11/18/07 15:03	0.036	0.034	0.035	0.053
DOE 4.5.2.3	NP-237	SCAQC-7936-LD1	11/18/07 15:03	0.337	0.149	0.152	0.224
DOE 4.5.2.3	NP-239	SCAQC-7936-LD1	11/18/07 15:03	0.038	0.093	0.093	0.163
DOE 4.5.2.3	AM-241	SCAQC-7936-LD1	11/18/07 15:03	0.103	0.087	0.088	0.140
DOE 4.5.2.3	AM-243	SCAQC-7936-LD1	11/18/07 15:03	0.172	0.055	0.057	0.045
DOE 4.5.2.3	CM-243	SCAQC-7936-LD1	11/18/07 15:03	0.030	0.048	0.048	0.082
DOE 4.5.2.3	AM-246	SCAQC-7936-LD1	11/18/07 15:03	0.041	0.045	0.045	0.085
DOE 4.5.2.3	CF-249	SCAQC-7936-LD1	11/18/07 15:03	-0.009	0.016	0.016	0.027

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7936-LD1	OH207-7936-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #27/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2205-SD				
Other Sample ID:	LD1	Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

	Quality Control Samples			
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7936-LC1	SCAQC-7936-LD1		SCAQC-7936-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2210-ST
Other Sample ID: LD1 Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7937-LD1	11/19/07 09:50	4.11	0.565	0.699	0.294
DOE 4.5.2.3	CO-60	SCAQC-7937-LD1	11/19/07 09:50	-0.004	0.020	0.020	0.027
DOE 4.5.2.3	RH-101	SCAQC-7937-LD1	11/19/07 09:50	-0.012	0.019	0.019	0.030
DOE 4.5.2.3	SB-125	SCAQC-7937-LD1	11/19/07 09:50	0.015	0.049	0.049	0.087
DOE 4.5.2.3	CS-137	SCAQC-7937-LD1	11/19/07 09:50	0.157	0.034	0.037	0.034
DOE 4.5.2.3	EU-155	SCAQC-7937-LD1	11/19/07 09:50	0.032	0.053	0.053	0.092
DOE 4.5.2.3	TL-208	SCAQC-7937-LD1	11/19/07 09:50	0.300	0.050	0.058	0.031
DOE 4.5.2.3	PO-209	SCAQC-7937-LD1	11/19/07 09:50	-2.69	3.45	3.46	5.72
DOE 4.5.2.3	BI-211	SCAQC-7937-LD1	11/19/07 09:50	-0.115	0.566	0.566	0.952
DOE 4.5.2.3	BI-212	SCAQC-7937-LD1	11/19/07 09:50	0.620	0.206	0.215	0.242
DOE 4.5.2.3	PB-212	SCAQC-7937-LD1	11/19/07 09:50	0.998	0.096	0.138	0.051
DOE 4.5.2.3	BI-214	SCAQC-7937-LD1	11/19/07 09:50	0.587	0.100	0.116	0.064
DOE 4.5.2.3	PB-214	SCAQC-7937-LD1	11/19/07 09:50	0.702	0.098	0.120	0.060
DOE 4.5.2.3	RA-223	SCAQC-7937-LD1	11/19/07 09:50	0.186	0.133	0.134	0.157
DOE 4.5.2.3	AC-228	SCAQC-7937-LD1	11/19/07 09:50	1.07	0.158	0.191	0.110
DOE 4.5.2.3	PA-233	SCAQC-7937-LD1	11/19/07 09:50	-0.009	0.033	0.033	0.056
DOE 4.5.2.3	PA-234M	SCAQC-7937-LD1	11/19/07 09:50	1.71	2.07	2.08	3.93
DOE 4.5.2.3	TH-234	SCAQC-7937-LD1	11/19/07 09:50	1.46	0.408	0.433	0.352
DOE 4.5.2.3	U-235	SCAQC-7937-LD1	11/19/07 09:50	0.119	0.113	0.114	0.197
DOE 4.5.2.3	NP-236	SCAQC-7937-LD1	11/19/07 09:50	0.034	0.034	0.034	0.050
DOE 4.5.2.3	NP-237	SCAQC-7937-LD1	11/19/07 09:50	0.586	0.164	0.174	0.153
DOE 4.5.2.3	NP-239	SCAQC-7937-LD1	11/19/07 09:50	0.010	0.116	0.117	0.197
DOE 4.5.2.3	AM-241	SCAQC-7937-LD1	11/19/07 09:50	0.022	0.037	0.037	0.055
DOE 4.5.2.3	AM-243	SCAQC-7937-LD1	11/19/07 09:50	0.144	0.040	0.043	0.030
DOE 4.5.2.3	CM-243	SCAQC-7937-LD1	11/19/07 09:50	-0.022	0.047	0.047	0.080
DOE 4.5.2.3	AM-246	SCAQC-7937-LD1	11/19/07 09:50	-0.002	0.058	0.058	0.104
DOE 4.5.2.3	CF-249	SCAQC-7937-LD1	11/19/07 09:50	0.007	0.021	0.021	0.038

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7937-LD1	OH207-7937-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #28/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2210-ST				
Other Sample ID:	LD1	Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #28/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2210-SD

Other Sample ID: LD1 Collection Date: 9/26/2007 Date Received: 9/27/2007 8:45:00

Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7938-LD1	11/20/07 12:04	4.41	0.495	0.662	0.234
DOE 4.5.2.3	CO-60	SCAQC-7938-LD1	11/20/07 12:04	0.006	0.015	0.015	0.025
DOE 4.5.2.3	RH-101	SCAQC-7938-LD1	11/20/07 12:04	-0.008	0.016	0.016	0.027
DOE 4.5.2.3	SB-125	SCAQC-7938-LD1	11/20/07 12:04	-0.018	0.039	0.039	0.067
DOE 4.5.2.3	CS-137	SCAQC-7938-LD1	11/20/07 12:04	0.086	0.033	0.034	0.027
DOE 4.5.2.3	EU-155	SCAQC-7938-LD1	11/20/07 12:04	0.089	0.047	0.048	0.083
DOE 4.5.2.3	TL-208	SCAQC-7938-LD1	11/20/07 12:04	0.310	0.044	0.054	0.027
DOE 4.5.2.3	PO-209	SCAQC-7938-LD1	11/20/07 12:04	-2.36	3.19	3.20	5.31
DOE 4.5.2.3	BI-211	SCAQC-7938-LD1	11/20/07 12:04	0.222	0.460	0.461	0.810
DOE 4.5.2.3	BI-212	SCAQC-7938-LD1	11/20/07 12:04	0.562	0.206	0.213	0.197
DOE 4.5.2.3	PB-212	SCAQC-7938-LD1	11/20/07 12:04	0.933	0.086	0.127	0.042
DOE 4.5.2.3	BI-214	SCAQC-7938-LD1	11/20/07 12:04	0.603	0.088	0.107	0.048
DOE 4.5.2.3	PB-214	SCAQC-7938-LD1	11/20/07 12:04	0.561	0.082	0.099	0.049
DOE 4.5.2.3	RA-223	SCAQC-7938-LD1	11/20/07 12:04	0.345	0.164	0.168	0.135
DOE 4.5.2.3	AC-228	SCAQC-7938-LD1	11/20/07 12:04	0.889	0.149	0.174	0.098
DOE 4.5.2.3	PA-233	SCAQC-7938-LD1	11/20/07 12:04	-0.011	0.027	0.027	0.044
DOE 4.5.2.3	PA-234M	SCAQC-7938-LD1	11/20/07 12:04	0.863	1.66	1.66	3.08
DOE 4.5.2.3	TH-234	SCAQC-7938-LD1	11/20/07 12:04	0.962	0.300	0.315	0.315
DOE 4.5.2.3	U-235	SCAQC-7938-LD1	11/20/07 12:04	0.037	0.097	0.097	0.165
DOE 4.5.2.3	NP-236	SCAQC-7938-LD1	11/20/07 12:04	0.039	0.030	0.030	0.044
DOE 4.5.2.3	NP-237	SCAQC-7938-LD1	11/20/07 12:04	0.486	0.130	0.139	0.137
DOE 4.5.2.3	NP-239	SCAQC-7938-LD1	11/20/07 12:04	-0.050	0.103	0.103	0.171
DOE 4.5.2.3	AM-241	SCAQC-7938-LD1	11/20/07 12:04	0.051	0.031	0.032	0.048
DOE 4.5.2.3	AM-243	SCAQC-7938-LD1	11/20/07 12:04	0.149	0.040	0.043	0.027
DOE 4.5.2.3	CM-243	SCAQC-7938-LD1	11/20/07 12:04	-9.6e-04	0.042	0.042	0.072
DOE 4.5.2.3	AM-246	SCAQC-7938-LD1	11/20/07 12:04	0.043	0.052	0.052	0.098
DOE 4.5.2.3	CF-249	SCAQC-7938-LD1	11/20/07 12:04	-6.3e-04	0.017	0.017	0.030

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7938-LD1	OH207-7938-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #28/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2210-SD				
Other Sample ID:	LD1	Collection Date:	9/26/2007	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

	Quality Control Samples			
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil
Site Sample ID: N/A
Other Sample ID: PB Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7933-PB1	11/14/07 17:59	-0.062	0.136	0.136	0.282
DOE 4.5.2.3	CO-60	SCAQC-7933-PB1	11/14/07 17:59	-3.2e-04	0.008	0.008	0.014
DOE 4.5.2.3	RH-101	SCAQC-7933-PB1	11/14/07 17:59	-0.005	0.011	0.011	0.018
DOE 4.5.2.3	SB-125	SCAQC-7933-PB1	11/14/07 17:59	0.012	0.029	0.029	0.052
DOE 4.5.2.3	CS-137	SCAQC-7933-PB1	11/14/07 17:59	2.6e-04	0.010	0.010	0.018
DOE 4.5.2.3	EU-155	SCAQC-7933-PB1	11/14/07 17:59	-0.014	0.033	0.033	0.055
DOE 4.5.2.3	TL-208	SCAQC-7933-PB1	11/14/07 17:59	0.006	0.011	0.011	0.021
DOE 4.5.2.3	PO-209	SCAQC-7933-PB1	11/14/07 17:59	-0.145	1.85	1.85	3.36
DOE 4.5.2.3	BI-211	SCAQC-7933-PB1	11/14/07 17:59	-0.112	0.280	0.280	0.484
DOE 4.5.2.3	BI-212	SCAQC-7933-PB1	11/14/07 17:59	0.077	0.070	0.070	0.143
DOE 4.5.2.3	PB-212	SCAQC-7933-PB1	11/14/07 17:59	-5.9e-04	0.018	0.018	0.032
DOE 4.5.2.3	BI-214	SCAQC-7933-PB1	11/14/07 17:59	-0.005	0.024	0.024	0.044
DOE 4.5.2.3	PB-214	SCAQC-7933-PB1	11/14/07 17:59	0.011	0.024	0.024	0.042
DOE 4.5.2.3	RA-223	SCAQC-7933-PB1	11/14/07 17:59	-0.018	0.047	0.047	0.082
DOE 4.5.2.3	AC-228	SCAQC-7933-PB1	11/14/07 17:59	-0.027	0.045	0.045	0.077
DOE 4.5.2.3	PA-233	SCAQC-7933-PB1	11/14/07 17:59	-0.002	0.020	0.020	0.034
DOE 4.5.2.3	PA-234M	SCAQC-7933-PB1	11/14/07 17:59	0.277	1.17	1.17	2.22
DOE 4.5.2.3	TH-234	SCAQC-7933-PB1	11/14/07 17:59	0.096	0.185	0.185	0.331
DOE 4.5.2.3	U-235	SCAQC-7933-PB1	11/14/07 17:59	0.031	0.062	0.062	0.106
DOE 4.5.2.3	NP-236	SCAQC-7933-PB1	11/14/07 17:59	0.017	0.020	0.020	0.036
DOE 4.5.2.3	NP-237	SCAQC-7933-PB1	11/14/07 17:59	0.012	0.072	0.072	0.123
DOE 4.5.2.3	NP-239	SCAQC-7933-PB1	11/14/07 17:59	0.009	0.063	0.063	0.113
DOE 4.5.2.3	AM-241	SCAQC-7933-PB1	11/14/07 17:59	-0.024	0.047	0.048	0.081
DOE 4.5.2.3	AM-243	SCAQC-7933-PB1	11/14/07 17:59	0.005	0.016	0.016	0.028
DOE 4.5.2.3	CM-243	SCAQC-7933-PB1	11/14/07 17:59	0.015	0.030	0.030	0.053
DOE 4.5.2.3	AM-246	SCAQC-7933-PB1	11/14/07 17:59	0.056	0.035	0.036	0.076
DOE 4.5.2.3	CF-249	SCAQC-7933-PB1	11/14/07 17:59	-9.1e-05	0.012	0.012	0.020

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7933-LC1	SCAQC-7933-LD1		SCAQC-7933-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil
Site Sample ID: N/A
Other Sample ID: PB Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7934-PB1	11/16/07 12:06	0.073	0.121	0.121	0.255
DOE 4.5.2.3	CO-60	SCAQC-7934-PB1	11/16/07 12:06	0.002	0.009	0.009	0.017
DOE 4.5.2.3	RH-101	SCAQC-7934-PB1	11/16/07 12:06	-0.003	0.010	0.010	0.016
DOE 4.5.2.3	SB-125	SCAQC-7934-PB1	11/16/07 12:06	0.006	0.029	0.029	0.052
DOE 4.5.2.3	CS-137	SCAQC-7934-PB1	11/16/07 12:06	0.008	0.009	0.009	0.018
DOE 4.5.2.3	EU-155	SCAQC-7934-PB1	11/16/07 12:06	-0.030	0.031	0.031	0.051
DOE 4.5.2.3	TL-208	SCAQC-7934-PB1	11/16/07 12:06	6.7e-04	0.011	0.011	0.020
DOE 4.5.2.3	PO-209	SCAQC-7934-PB1	11/16/07 12:06	1.96	2.20	2.21	4.32
DOE 4.5.2.3	BI-211	SCAQC-7934-PB1	11/16/07 12:06	-0.129	0.276	0.276	0.478
DOE 4.5.2.3	BI-212	SCAQC-7934-PB1	11/16/07 12:06	-0.012	0.080	0.080	0.144
DOE 4.5.2.3	PB-212	SCAQC-7934-PB1	11/16/07 12:06	0.003	0.017	0.017	0.030
DOE 4.5.2.3	BI-214	SCAQC-7934-PB1	11/16/07 12:06	0.009	0.023	0.023	0.042
DOE 4.5.2.3	PB-214	SCAQC-7934-PB1	11/16/07 12:06	-0.012	0.021	0.021	0.035
DOE 4.5.2.3	RA-223	SCAQC-7934-PB1	11/16/07 12:06	-0.002	0.048	0.048	0.086
DOE 4.5.2.3	AC-228	SCAQC-7934-PB1	11/16/07 12:06	-0.017	0.041	0.041	0.071
DOE 4.5.2.3	PA-233	SCAQC-7934-PB1	11/16/07 12:06	4.6e-04	0.017	0.017	0.031
DOE 4.5.2.3	PA-234M	SCAQC-7934-PB1	11/16/07 12:06	0.399	1.38	1.38	2.58
DOE 4.5.2.3	TH-234	SCAQC-7934-PB1	11/16/07 12:06	-0.068	0.179	0.179	0.329
DOE 4.5.2.3	U-235	SCAQC-7934-PB1	11/16/07 12:06	-0.029	0.060	0.060	0.099
DOE 4.5.2.3	NP-236	SCAQC-7934-PB1	11/16/07 12:06	0.003	0.019	0.019	0.033
DOE 4.5.2.3	NP-237	SCAQC-7934-PB1	11/16/07 12:06	-0.013	0.069	0.069	0.119
DOE 4.5.2.3	NP-239	SCAQC-7934-PB1	11/16/07 12:06	0.058	0.062	0.063	0.111
DOE 4.5.2.3	AM-241	SCAQC-7934-PB1	11/16/07 12:06	0.004	0.055	0.055	0.099
DOE 4.5.2.3	AM-243	SCAQC-7934-PB1	11/16/07 12:06	-0.015	0.017	0.017	0.027
DOE 4.5.2.3	CM-243	SCAQC-7934-PB1	11/16/07 12:06	0.012	0.028	0.028	0.050
DOE 4.5.2.3	AM-246	SCAQC-7934-PB1	11/16/07 12:06	-3.0e-04	0.026	0.026	0.050
DOE 4.5.2.3	CF-249	SCAQC-7934-PB1	11/16/07 12:06	-7.7e-04	0.011	0.011	0.019

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7934-LC1	SCAQC-7934-LD1		SCAQC-7934-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil

Site Sample ID: N/A

Other Sample ID: PB Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00

Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7935-PB1	11/17/07 15:38	-0.111	0.154	0.154	0.281
DOE 4.5.2.3	CO-60	SCAQC-7935-PB1	11/17/07 15:38	-8.3e-04	0.014	0.014	0.021
DOE 4.5.2.3	RH-101	SCAQC-7935-PB1	11/17/07 15:38	-0.002	0.012	0.012	0.020
DOE 4.5.2.3	SB-125	SCAQC-7935-PB1	11/17/07 15:38	-0.008	0.032	0.032	0.056
DOE 4.5.2.3	CS-137	SCAQC-7935-PB1	11/17/07 15:38	-0.003	0.013	0.013	0.022
DOE 4.5.2.3	EU-155	SCAQC-7935-PB1	11/17/07 15:38	0.015	0.033	0.033	0.059
DOE 4.5.2.3	TL-208	SCAQC-7935-PB1	11/17/07 15:38	-0.009	0.015	0.015	0.026
DOE 4.5.2.3	PO-209	SCAQC-7935-PB1	11/17/07 15:38	2.53	2.75	2.76	5.42
DOE 4.5.2.3	BI-211	SCAQC-7935-PB1	11/17/07 15:38	-0.049	0.393	0.393	0.684
DOE 4.5.2.3	BI-212	SCAQC-7935-PB1	11/17/07 15:38	-0.036	0.094	0.094	0.161
DOE 4.5.2.3	PB-212	SCAQC-7935-PB1	11/17/07 15:38	-0.009	0.024	0.024	0.041
DOE 4.5.2.3	BI-214	SCAQC-7935-PB1	11/17/07 15:38	-0.019	0.028	0.028	0.049
DOE 4.5.2.3	PB-214	SCAQC-7935-PB1	11/17/07 15:38	0.022	0.029	0.029	0.051
DOE 4.5.2.3	RA-223	SCAQC-7935-PB1	11/17/07 15:38	-0.013	0.060	0.060	0.102
DOE 4.5.2.3	AC-228	SCAQC-7935-PB1	11/17/07 15:38	-0.043	0.051	0.051	0.086
DOE 4.5.2.3	PA-233	SCAQC-7935-PB1	11/17/07 15:38	-0.013	0.023	0.023	0.038
DOE 4.5.2.3	PA-234M	SCAQC-7935-PB1	11/17/07 15:38	-0.537	1.64	1.64	2.94
DOE 4.5.2.3	TH-234	SCAQC-7935-PB1	11/17/07 15:38	-0.208	0.192	0.193	0.335
DOE 4.5.2.3	U-235	SCAQC-7935-PB1	11/17/07 15:38	0.050	0.071	0.072	0.126
DOE 4.5.2.3	NP-236	SCAQC-7935-PB1	11/17/07 15:38	0.019	0.020	0.020	0.030
DOE 4.5.2.3	NP-237	SCAQC-7935-PB1	11/17/07 15:38	0.006	0.063	0.063	0.106
DOE 4.5.2.3	NP-239	SCAQC-7935-PB1	11/17/07 15:38	-0.042	0.079	0.079	0.131
DOE 4.5.2.3	AM-241	SCAQC-7935-PB1	11/17/07 15:38	-0.070	0.025	0.026	0.035
DOE 4.5.2.3	AM-243	SCAQC-7935-PB1	11/17/07 15:38	-0.009	0.012	0.012	0.019
DOE 4.5.2.3	CM-243	SCAQC-7935-PB1	11/17/07 15:38	0.023	0.030	0.030	0.053
DOE 4.5.2.3	AM-246	SCAQC-7935-PB1	11/17/07 15:38	0.038	0.045	0.045	0.091
DOE 4.5.2.3	CF-249	SCAQC-7935-PB1	11/17/07 15:38	-3.1e-04	0.014	0.014	0.025

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7935-LC1	SCAQC-7935-LD1		SCAQC-7935-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil
Site Sample ID: N/A
Other Sample ID: PB Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7936-PB1	11/18/07 12:05	-0.018	0.147	0.147	0.292
DOE 4.5.2.3	CO-60	SCAQC-7936-PB1	11/18/07 12:05	-0.002	0.013	0.013	0.023
DOE 4.5.2.3	RH-101	SCAQC-7936-PB1	11/18/07 12:05	-0.005	0.013	0.013	0.021
DOE 4.5.2.3	SB-125	SCAQC-7936-PB1	11/18/07 12:05	0.018	0.031	0.031	0.058
DOE 4.5.2.3	CS-137	SCAQC-7936-PB1	11/18/07 12:05	0.007	0.013	0.013	0.024
DOE 4.5.2.3	EU-155	SCAQC-7936-PB1	11/18/07 12:05	-0.002	0.033	0.033	0.058
DOE 4.5.2.3	TL-208	SCAQC-7936-PB1	11/18/07 12:05	0.005	0.015	0.015	0.027
DOE 4.5.2.3	PO-209	SCAQC-7936-PB1	11/18/07 12:05	-1.74	2.64	2.65	4.46
DOE 4.5.2.3	BI-211	SCAQC-7936-PB1	11/18/07 12:05	-0.460	0.352	0.355	0.514
DOE 4.5.2.3	BI-212	SCAQC-7936-PB1	11/18/07 12:05	0.063	0.112	0.112	0.208
DOE 4.5.2.3	PB-212	SCAQC-7936-PB1	11/18/07 12:05	-0.013	0.025	0.025	0.041
DOE 4.5.2.3	BI-214	SCAQC-7936-PB1	11/18/07 12:05	0.041	0.045	0.045	0.066
DOE 4.5.2.3	PB-214	SCAQC-7936-PB1	11/18/07 12:05	0.004	0.029	0.029	0.049
DOE 4.5.2.3	RA-223	SCAQC-7936-PB1	11/18/07 12:05	0.024	0.062	0.062	0.110
DOE 4.5.2.3	AC-228	SCAQC-7936-PB1	11/18/07 12:05	-0.021	0.052	0.052	0.093
DOE 4.5.2.3	PA-233	SCAQC-7936-PB1	11/18/07 12:05	-0.007	0.025	0.025	0.042
DOE 4.5.2.3	PA-234M	SCAQC-7936-PB1	11/18/07 12:05	0.755	1.54	1.54	3.03
DOE 4.5.2.3	TH-234	SCAQC-7936-PB1	11/18/07 12:05	-0.081	0.192	0.192	0.348
DOE 4.5.2.3	U-235	SCAQC-7936-PB1	11/18/07 12:05	-0.069	0.076	0.076	0.124
DOE 4.5.2.3	NP-236	SCAQC-7936-PB1	11/18/07 12:05	-0.012	0.020	0.020	0.031
DOE 4.5.2.3	NP-237	SCAQC-7936-PB1	11/18/07 12:05	0.021	0.061	0.061	0.103
DOE 4.5.2.3	NP-239	SCAQC-7936-PB1	11/18/07 12:05	-0.025	0.079	0.079	0.133
DOE 4.5.2.3	AM-241	SCAQC-7936-PB1	11/18/07 12:05	-0.080	0.025	0.026	0.035
DOE 4.5.2.3	AM-243	SCAQC-7936-PB1	11/18/07 12:05	-0.015	0.012	0.013	0.019
DOE 4.5.2.3	CM-243	SCAQC-7936-PB1	11/18/07 12:05	0.005	0.030	0.030	0.053
DOE 4.5.2.3	AM-246	SCAQC-7936-PB1	11/18/07 12:05	-0.009	0.044	0.044	0.078
DOE 4.5.2.3	CF-249	SCAQC-7936-PB1	11/18/07 12:05	-0.004	0.014	0.014	0.025

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7936-LC1	SCAQC-7936-LD1		SCAQC-7936-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil
Site Sample ID: N/A
Other Sample ID: PB Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7937-PB1	11/19/07 09:25	0.033	0.132	0.132	0.294
DOE 4.5.2.3	CO-60	SCAQC-7937-PB1	11/19/07 09:25	0.008	0.009	0.009	0.018
DOE 4.5.2.3	RH-101	SCAQC-7937-PB1	11/19/07 09:25	1.2e-05	0.010	0.010	0.017
DOE 4.5.2.3	SB-125	SCAQC-7937-PB1	11/19/07 09:25	-0.010	0.028	0.028	0.048
DOE 4.5.2.3	CS-137	SCAQC-7937-PB1	11/19/07 09:25	0.006	0.010	0.010	0.019
DOE 4.5.2.3	EU-155	SCAQC-7937-PB1	11/19/07 09:25	-0.013	0.032	0.032	0.054
DOE 4.5.2.3	TL-208	SCAQC-7937-PB1	11/19/07 09:25	-0.003	0.011	0.011	0.020
DOE 4.5.2.3	PO-209	SCAQC-7937-PB1	11/19/07 09:25	0.146	1.98	1.98	3.64
DOE 4.5.2.3	BI-211	SCAQC-7937-PB1	11/19/07 09:25	-0.082	0.229	0.229	0.404
DOE 4.5.2.3	BI-212	SCAQC-7937-PB1	11/19/07 09:25	0.020	0.069	0.069	0.131
DOE 4.5.2.3	PB-212	SCAQC-7937-PB1	11/19/07 09:25	0.011	0.019	0.019	0.034
DOE 4.5.2.3	BI-214	SCAQC-7937-PB1	11/19/07 09:25	-0.007	0.023	0.023	0.042
DOE 4.5.2.3	PB-214	SCAQC-7937-PB1	11/19/07 09:25	-0.005	0.022	0.022	0.038
DOE 4.5.2.3	RA-223	SCAQC-7937-PB1	11/19/07 09:25	-0.022	0.053	0.053	0.092
DOE 4.5.2.3	AC-228	SCAQC-7937-PB1	11/19/07 09:25	-0.004	0.040	0.040	0.073
DOE 4.5.2.3	PA-233	SCAQC-7937-PB1	11/19/07 09:25	0.010	0.019	0.019	0.034
DOE 4.5.2.3	PA-234M	SCAQC-7937-PB1	11/19/07 09:25	0.346	1.12	1.12	2.17
DOE 4.5.2.3	TH-234	SCAQC-7937-PB1	11/19/07 09:25	0.040	0.188	0.188	0.332
DOE 4.5.2.3	U-235	SCAQC-7937-PB1	11/19/07 09:25	0.002	0.060	0.060	0.101
DOE 4.5.2.3	NP-236	SCAQC-7937-PB1	11/19/07 09:25	0.004	0.019	0.019	0.033
DOE 4.5.2.3	NP-237	SCAQC-7937-PB1	11/19/07 09:25	0.004	0.073	0.073	0.123
DOE 4.5.2.3	NP-239	SCAQC-7937-PB1	11/19/07 09:25	0.043	0.065	0.065	0.118
DOE 4.5.2.3	AM-241	SCAQC-7937-PB1	11/19/07 09:25	-0.011	0.051	0.051	0.079
DOE 4.5.2.3	AM-243	SCAQC-7937-PB1	11/19/07 09:25	-0.001	0.016	0.016	0.027
DOE 4.5.2.3	CM-243	SCAQC-7937-PB1	11/19/07 09:25	0.013	0.028	0.028	0.050
DOE 4.5.2.3	AM-246	SCAQC-7937-PB1	11/19/07 09:25	-0.020	0.034	0.034	0.056
DOE 4.5.2.3	CF-249	SCAQC-7937-PB1	11/19/07 09:25	-0.008	0.012	0.012	0.019

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

	Quality Control Samples			
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7937-LC1	SCAQC-7937-LD1		SCAQC-7937-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil

Site Sample ID: N/A

Other Sample ID: PB Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00

Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7938-PB1	11/20/07 12:03	0.077	0.134	0.134	0.304
DOE 4.5.2.3	CO-60	SCAQC-7938-PB1	11/20/07 12:03	0.003	0.009	0.009	0.018
DOE 4.5.2.3	RH-101	SCAQC-7938-PB1	11/20/07 12:03	-0.001	0.011	0.011	0.019
DOE 4.5.2.3	SB-125	SCAQC-7938-PB1	11/20/07 12:03	-0.013	0.028	0.028	0.047
DOE 4.5.2.3	CS-137	SCAQC-7938-PB1	11/20/07 12:03	0.006	0.010	0.010	0.020
DOE 4.5.2.3	EU-155	SCAQC-7938-PB1	11/20/07 12:03	-0.002	0.032	0.032	0.055
DOE 4.5.2.3	TL-208	SCAQC-7938-PB1	11/20/07 12:03	0.002	0.011	0.011	0.021
DOE 4.5.2.3	PO-209	SCAQC-7938-PB1	11/20/07 12:03	0.010	1.74	1.74	3.22
DOE 4.5.2.3	BI-211	SCAQC-7938-PB1	11/20/07 12:03	0.089	0.250	0.250	0.482
DOE 4.5.2.3	BI-212	SCAQC-7938-PB1	11/20/07 12:03	0.007	0.069	0.069	0.129
DOE 4.5.2.3	PB-212	SCAQC-7938-PB1	11/20/07 12:03	0.025	0.019	0.019	0.036
DOE 4.5.2.3	BI-214	SCAQC-7938-PB1	11/20/07 12:03	0.002	0.023	0.023	0.043
DOE 4.5.2.3	PB-214	SCAQC-7938-PB1	11/20/07 12:03	-0.011	0.023	0.023	0.039
DOE 4.5.2.3	RA-223	SCAQC-7938-PB1	11/20/07 12:03	-0.004	0.054	0.054	0.095
DOE 4.5.2.3	AC-228	SCAQC-7938-PB1	11/20/07 12:03	-0.014	0.038	0.038	0.068
DOE 4.5.2.3	PA-233	SCAQC-7938-PB1	11/20/07 12:03	-0.003	0.019	0.019	0.033
DOE 4.5.2.3	PA-234M	SCAQC-7938-PB1	11/20/07 12:03	-1.21	1.24	1.25	1.98
DOE 4.5.2.3	TH-234	SCAQC-7938-PB1	11/20/07 12:03	0.307	0.292	0.294	0.331
DOE 4.5.2.3	U-235	SCAQC-7938-PB1	11/20/07 12:03	0.039	0.062	0.062	0.108
DOE 4.5.2.3	NP-236	SCAQC-7938-PB1	11/20/07 12:03	5.3e-04	0.021	0.021	0.032
DOE 4.5.2.3	NP-237	SCAQC-7938-PB1	11/20/07 12:03	-0.058	0.075	0.076	0.121
DOE 4.5.2.3	NP-239	SCAQC-7938-PB1	11/20/07 12:03	0.030	0.062	0.062	0.113
DOE 4.5.2.3	AM-241	SCAQC-7938-PB1	11/20/07 12:03	-0.020	0.046	0.046	0.079
DOE 4.5.2.3	AM-243	SCAQC-7938-PB1	11/20/07 12:03	-0.010	0.017	0.017	0.028
DOE 4.5.2.3	CM-243	SCAQC-7938-PB1	11/20/07 12:03	-0.030	0.030	0.030	0.048
DOE 4.5.2.3	AM-246	SCAQC-7938-PB1	11/20/07 12:03	0.007	0.035	0.035	0.066
DOE 4.5.2.3	CF-249	SCAQC-7938-PB1	11/20/07 12:03	-0.002	0.012	0.012	0.021

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7933_7938

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7938-LC1	SCAQC-7938-LD1		SCAQC-7938-PB1

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Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah
Matrix: Soil
Laboratory Code: SCA

Laboratory Contol Sample (LC1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	(CV) Decay Corrected Activity of Spike Added (pCi/g)	(OV) Laboratory Control Sample Activity (pCi/g)	Laboratory Control Sample % Recovery (Accuracy)	Number of σ Between CV and OV
DOE 4.5.2.3	CO-60	SCAQC-7935-LC1	31.1 ± 0.839	31.3 ± 3.61	101	0.079
DOE 4.5.2.3	CO-60	SCAQC-7938-LC1	31.1 ± 0.839	30.7 ± 3.54	98.7	0.165
DOE 4.5.2.3	CO-60	SCAQC-7933-LC1	31.1 ± 0.839	30.7 ± 3.63	98.8	0.151
DOE 4.5.2.3	CO-60	SCAQC-7937-LC1	31.1 ± 0.839	31.4 ± 3.62	101	0.130
DOE 4.5.2.3	CO-60	SCAQC-7934-LC1	31.1 ± 0.839	31.1 ± 3.67	100	0.008
DOE 4.5.2.3	CO-60	SCAQC-7936-LC1	31.1 ± 0.839	31.3 ± 3.69	101	0.074
DOE 4.5.2.3	CS-137	SCAQC-7933-LC1	28.8 ± 0.864	31.0 ± 4.57	108	0.762
DOE 4.5.2.3	CS-137	SCAQC-7934-LC1	28.8 ± 0.864	31.2 ± 4.61	108	0.839
DOE 4.5.2.3	CS-137	SCAQC-7935-LC1	28.8 ± 0.864	30.6 ± 4.65	106	0.619
DOE 4.5.2.3	CS-137	SCAQC-7938-LC1	28.8 ± 0.864	30.3 ± 4.60	105	0.508
DOE 4.5.2.3	CS-137	SCAQC-7936-LC1	28.8 ± 0.864	30.6 ± 4.50	106	0.618
DOE 4.5.2.3	CS-137	SCAQC-7937-LC1	28.8 ± 0.864	30.6 ± 4.66	106	0.635
DOE 4.5.2.3	AM-241	SCAQC-7933-LC1	77.0 ± 2.31	74.0 ± 9.57	96.1	0.466
DOE 4.5.2.3	AM-241	SCAQC-7935-LC1	77.0 ± 2.31	74.8 ± 9.02	97.2	0.344
DOE 4.5.2.3	AM-241	SCAQC-7937-LC1	77.0 ± 2.31	75.2 ± 9.06	97.6	0.287
DOE 4.5.2.3	AM-241	SCAQC-7934-LC1	77.0 ± 2.31	75.5 ± 9.76	98.1	0.227
DOE 4.5.2.3	AM-241	SCAQC-7938-LC1	77.0 ± 2.31	79.3 ± 9.61	103	0.348
DOE 4.5.2.3	AM-241	SCAQC-7936-LC1	77.0 ± 2.31	74.4 ± 9.65	96.7	0.392

Laboratory Duplicate Sample (LD1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	Original Sample Activity (pCi/g)	Duplicate Sample Activity (pCi/g)	Difference Between Original Activity and Duplicate Sample Activity (F)	Ratio of the Difference Between the Sample Activity and the Propagated Measurement at 1 σ (F/E)
DOE 4.5.2.3	K-40	SCAQC-7938-LD1	4.34 ± 0.626	4.41 ± 0.662	0.065	0.143
DOE 4.5.2.3	K-40	SCAQC-7935-LD1	4.89 ± 0.714	4.33 ± 0.689	0.561	1.13
DOE 4.5.2.3	K-40	SCAQC-7937-LD1	4.88 ± 0.728	4.11 ± 0.699	0.771	1.53
DOE 4.5.2.3	K-40	SCAQC-7936-LD1	3.46 ± 0.576	3.28 ± 0.534	0.183	0.466
DOE 4.5.2.3	K-40	SCAQC-7933-LD1	3.54 ± 0.618	3.51 ± 0.615	0.038	0.087
DOE 4.5.2.3	K-40	SCAQC-7934-LD1	3.67 ± 0.612	3.45 ± 0.599	0.220	0.514
DOE 4.5.2.3	CO-60	SCAQC-7934-LD1	0.005 ± 0.019	0.008 ± 0.015	0.003	0.235

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DOE 4.5.2.3	CO-60	SCAQC-7935-LD1	-0.010	± 0.014	0.003	± 0.016	0.013	1.21
DOE 4.5.2.3	CO-60	SCAQC-7936-LD1	0.016	± 0.014	-0.001	± 0.013	0.017	1.82
DOE 4.5.2.3	CO-60	SCAQC-7933-LD1	-0.004	± 0.014	-0.013	± 0.016	0.009	0.836
DOE 4.5.2.3	CO-60	SCAQC-7938-LD1	0.007	± 0.012	0.006	± 0.015	9.0e-04	0.093
DOE 4.5.2.3	CO-60	SCAQC-7937-LD1	-0.002	± 0.015	-0.004	± 0.020	0.002	0.156
DOE 4.5.2.3	RH-101	SCAQC-7933-LD1	-0.012	± 0.016	-0.004	± 0.018	0.008	0.643
DOE 4.5.2.3	RH-101	SCAQC-7937-LD1	-0.013	± 0.016	-0.012	± 0.019	7.3e-04	0.059
DOE 4.5.2.3	RH-101	SCAQC-7935-LD1	-0.009	± 0.015	-0.009	± 0.016	5.9e-04	0.054
DOE 4.5.2.3	RH-101	SCAQC-7934-LD1	-0.007	± 0.018	-0.014	± 0.016	0.007	0.590
DOE 4.5.2.3	RH-101	SCAQC-7936-LD1	0.003	± 0.015	-0.008	± 0.015	0.010	0.973
DOE 4.5.2.3	RH-101	SCAQC-7938-LD1	-0.005	± 0.014	-0.008	± 0.016	0.003	0.293
DOE 4.5.2.3	SB-125	SCAQC-7933-LD1	0.007	± 0.040	0.034	± 0.045	0.027	0.884
DOE 4.5.2.3	SB-125	SCAQC-7934-LD1	-0.013	± 0.047	0.002	± 0.041	0.015	0.487
DOE 4.5.2.3	SB-125	SCAQC-7938-LD1	0.011	± 0.034	-0.018	± 0.039	0.029	1.12
DOE 4.5.2.3	SB-125	SCAQC-7937-LD1	0.010	± 0.039	0.015	± 0.049	0.006	0.178
DOE 4.5.2.3	SB-125	SCAQC-7935-LD1	0.013	± 0.038	0.022	± 0.040	0.009	0.336
DOE 4.5.2.3	SB-125	SCAQC-7936-LD1	0.010	± 0.035	0.037	± 0.036	0.027	1.09
DOE 4.5.2.3	CS-137	SCAQC-7934-LD1	0.092	± 0.033	0.096	± 0.036	0.004	0.165
DOE 4.5.2.3	CS-137	SCAQC-7936-LD1	0.047	± 0.029	0.037	± 0.036	0.010	0.455
DOE 4.5.2.3	CS-137	SCAQC-7937-LD1	0.198	± 0.042	0.157	± 0.037	0.041	1.46
DOE 4.5.2.3	CS-137	SCAQC-7935-LD1	0.155	± 0.036	0.149	± 0.037	0.006	0.238
DOE 4.5.2.3	CS-137	SCAQC-7933-LD1	0.118	± 0.036	0.137	± 0.042	0.018	0.669
DOE 4.5.2.3	CS-137	SCAQC-7938-LD1	0.097	± 0.026	0.086	± 0.034	0.011	0.528
DOE 4.5.2.3	EU-155	SCAQC-7935-LD1	0.074	± 0.057	0.051	± 0.055	0.022	0.565
DOE 4.5.2.3	EU-155	SCAQC-7936-LD1	0.055	± 0.056	0.049	± 0.054	0.007	0.172
DOE 4.5.2.3	EU-155	SCAQC-7937-LD1	0.065	± 0.057	0.032	± 0.053	0.033	0.849
DOE 4.5.2.3	EU-155	SCAQC-7938-LD1	0.039	± 0.049	0.089	± 0.048	0.050	1.46
DOE 4.5.2.3	EU-155	SCAQC-7934-LD1	0.007	± 0.052	0.064	± 0.055	0.057	1.51
DOE 4.5.2.3	EU-155	SCAQC-7933-LD1	0.059	± 0.055	0.052	± 0.050	0.007	0.184
DOE 4.5.2.3	TL-208	SCAQC-7936-LD1	0.300	± 0.056	0.348	± 0.062	0.048	1.15
DOE 4.5.2.3	TL-208	SCAQC-7938-LD1	0.304	± 0.052	0.310	± 0.054	0.005	0.144
DOE 4.5.2.3	TL-208	SCAQC-7934-LD1	0.260	± 0.050	0.211	± 0.046	0.049	1.43
DOE 4.5.2.3	TL-208	SCAQC-7933-LD1	0.288	± 0.055	0.271	± 0.052	0.017	0.453
DOE 4.5.2.3	TL-208	SCAQC-7935-LD1	0.310	± 0.057	0.265	± 0.051	0.045	1.20
DOE 4.5.2.3	TL-208	SCAQC-7937-LD1	0.309	± 0.058	0.300	± 0.058	0.009	0.221
DOE 4.5.2.3	PO-209	SCAQC-7938-LD1	-1.70	± 2.50	-2.36	± 3.20	0.666	0.328
DOE 4.5.2.3	PO-209	SCAQC-7933-LD1	-2.38	± 2.83	3.62	± 3.34	6.00	2.74
DOE 4.5.2.3	PO-209	SCAQC-7934-LD1	0.740	± 3.70	-1.27	± 2.85	2.02	0.863
DOE 4.5.2.3	PO-209	SCAQC-7936-LD1	-1.46	± 2.53	1.26	± 2.69	2.73	1.48
DOE 4.5.2.3	PO-209	SCAQC-7937-LD1	0.151	± 2.81	-2.69	± 3.46	2.84	1.27
DOE 4.5.2.3	PO-209	SCAQC-7935-LD1	-0.977	± 2.68	-0.835	± 2.50	0.141	0.077
DOE 4.5.2.3	BI-211	SCAQC-7936-LD1	-0.138	± 0.377	-0.240	± 0.427	0.103	0.361
DOE 4.5.2.3	BI-211	SCAQC-7937-LD1	-0.353	± 0.424	-0.115	± 0.566	0.238	0.674
DOE 4.5.2.3	BI-211	SCAQC-7934-LD1	-0.240	± 0.536	-0.615	± 0.430	0.375	1.09
DOE 4.5.2.3	BI-211	SCAQC-7935-LD1	0.001	± 0.390	-0.229	± 0.429	0.230	0.794

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DOE 4.5.2.3	BI-211	SCAQC-7938-LD1	0.111	± 0.343	0.222	± 0.461	0.111	0.388
DOE 4.5.2.3	BI-211	SCAQC-7933-LD1	-0.202	± 0.410	-0.787	± 0.549	0.585	1.71
DOE 4.5.2.3	BI-212	SCAQC-7937-LD1	0.615	± 0.212	0.620	± 0.215	0.005	0.034
DOE 4.5.2.3	BI-212	SCAQC-7933-LD1	0.792	± 0.242	0.354	± 0.234	0.438	2.60
DOE 4.5.2.3	BI-212	SCAQC-7935-LD1	0.556	± 0.189	0.680	± 0.209	0.124	0.877
DOE 4.5.2.3	BI-212	SCAQC-7936-LD1	0.413	± 0.207	0.676	± 0.182	0.263	1.90
DOE 4.5.2.3	BI-212	SCAQC-7938-LD1	0.592	± 0.187	0.562	± 0.213	0.030	0.213
DOE 4.5.2.3	BI-212	SCAQC-7934-LD1	0.330	± 0.239	0.460	± 0.180	0.130	0.870
DOE 4.5.2.3	PB-212	SCAQC-7938-LD1	0.856	± 0.116	0.933	± 0.127	0.076	0.889
DOE 4.5.2.3	PB-212	SCAQC-7936-LD1	0.911	± 0.125	0.862	± 0.118	0.049	0.565
DOE 4.5.2.3	PB-212	SCAQC-7937-LD1	0.912	± 0.125	0.998	± 0.138	0.086	0.925
DOE 4.5.2.3	PB-212	SCAQC-7933-LD1	0.688	± 0.102	0.792	± 0.115	0.103	1.35
DOE 4.5.2.3	PB-212	SCAQC-7935-LD1	0.804	± 0.112	0.830	± 0.115	0.025	0.313
DOE 4.5.2.3	PB-212	SCAQC-7934-LD1	0.800	± 0.116	0.748	± 0.105	0.052	0.664
DOE 4.5.2.3	BI-214	SCAQC-7933-LD1	0.601	± 0.110	0.629	± 0.112	0.028	0.360
DOE 4.5.2.3	BI-214	SCAQC-7937-LD1	0.572	± 0.109	0.587	± 0.116	0.015	0.185
DOE 4.5.2.3	BI-214	SCAQC-7935-LD1	0.684	± 0.117	0.581	± 0.110	0.103	1.28
DOE 4.5.2.3	BI-214	SCAQC-7938-LD1	0.538	± 0.096	0.603	± 0.107	0.066	0.915
DOE 4.5.2.3	BI-214	SCAQC-7936-LD1	0.454	± 0.090	0.430	± 0.086	0.024	0.379
DOE 4.5.2.3	BI-214	SCAQC-7934-LD1	0.484	± 0.094	0.475	± 0.098	0.009	0.138
DOE 4.5.2.3	PB-214	SCAQC-7935-LD1	0.688	± 0.110	0.730	± 0.112	0.042	0.536
DOE 4.5.2.3	PB-214	SCAQC-7938-LD1	0.554	± 0.093	0.561	± 0.099	0.006	0.090
DOE 4.5.2.3	PB-214	SCAQC-7936-LD1	0.468	± 0.083	0.516	± 0.091	0.049	0.793
DOE 4.5.2.3	PB-214	SCAQC-7934-LD1	0.565	± 0.109	0.596	± 0.098	0.031	0.427
DOE 4.5.2.3	PB-214	SCAQC-7937-LD1	0.661	± 0.105	0.702	± 0.120	0.041	0.513
DOE 4.5.2.3	PB-214	SCAQC-7933-LD1	0.620	± 0.101	0.670	± 0.116	0.050	0.647
DOE 4.5.2.3	RA-223	SCAQC-7933-LD1	0.289	± 0.170	0.367	± 0.135	0.078	0.718
DOE 4.5.2.3	RA-223	SCAQC-7938-LD1	0.274	± 0.116	0.345	± 0.168	0.070	0.690
DOE 4.5.2.3	RA-223	SCAQC-7937-LD1	0.201	± 0.088	0.186	± 0.134	0.015	0.184
DOE 4.5.2.3	RA-223	SCAQC-7934-LD1	0.283	± 0.186	0.252	± 0.115	0.031	0.284
DOE 4.5.2.3	RA-223	SCAQC-7935-LD1	0.280	± 0.134	0.289	± 0.131	0.008	0.089
DOE 4.5.2.3	RA-223	SCAQC-7936-LD1	0.186	± 0.080	0.187	± 0.089	0.001	0.018
DOE 4.5.2.3	AC-228	SCAQC-7935-LD1	0.937	± 0.159	0.990	± 0.190	0.053	0.432
DOE 4.5.2.3	AC-228	SCAQC-7934-LD1	0.901	± 0.198	0.821	± 0.168	0.080	0.613
DOE 4.5.2.3	AC-228	SCAQC-7937-LD1	1.09	± 0.175	1.07	± 0.191	0.023	0.178
DOE 4.5.2.3	AC-228	SCAQC-7933-LD1	0.798	± 0.168	0.814	± 0.174	0.016	0.137
DOE 4.5.2.3	AC-228	SCAQC-7936-LD1	0.982	± 0.159	1.01	± 0.180	0.030	0.254
DOE 4.5.2.3	AC-228	SCAQC-7938-LD1	0.932	± 0.149	0.889	± 0.174	0.043	0.374
DOE 4.5.2.3	PA-233	SCAQC-7937-LD1	0.034	± 0.027	-0.009	± 0.033	0.042	1.95
DOE 4.5.2.3	PA-233	SCAQC-7935-LD1	0.024	± 0.027	9.2e-04	± 0.027	0.023	1.20
DOE 4.5.2.3	PA-233	SCAQC-7934-LD1	-0.005	± 0.034	-0.018	± 0.028	0.013	0.591
DOE 4.5.2.3	PA-233	SCAQC-7933-LD1	-0.014	± 0.026	-0.004	± 0.034	0.010	0.487
DOE 4.5.2.3	PA-233	SCAQC-7936-LD1	-0.002	± 0.024	0.010	± 0.027	0.012	0.669
DOE 4.5.2.3	PA-233	SCAQC-7938-LD1	-0.007	± 0.023	-0.011	± 0.027	0.004	0.236
DOE 4.5.2.3	PA-234M	SCAQC-7937-LD1	1.94	± 1.78	1.71	± 2.08	0.235	0.172

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DOE 4.5.2.3	PA-234M	SCAQC-7938-LD1	0.962	± 1.36	0.863	± 1.66	0.099	0.093
DOE 4.5.2.3	PA-234M	SCAQC-7936-LD1	-0.295	± 1.50	-0.062	± 1.60	0.233	0.213
DOE 4.5.2.3	PA-234M	SCAQC-7934-LD1	0.745	± 2.15	0.408	± 1.84	0.337	0.238
DOE 4.5.2.3	PA-234M	SCAQC-7933-LD1	-0.840	± 1.57	-0.250	± 2.11	0.590	0.449
DOE 4.5.2.3	PA-234M	SCAQC-7935-LD1	0.827	± 1.57	0.224	± 1.79	0.603	0.506
DOE 4.5.2.3	TH-234	SCAQC-7936-LD1	0.893	± 0.382	1.27	± 0.408	0.382	1.37
DOE 4.5.2.3	TH-234	SCAQC-7935-LD1	1.07	± 0.385	0.889	± 0.366	0.183	0.690
DOE 4.5.2.3	TH-234	SCAQC-7934-LD1	1.01	± 0.312	0.761	± 0.527	0.246	0.803
DOE 4.5.2.3	TH-234	SCAQC-7937-LD1	1.12	± 0.443	1.46	± 0.433	0.332	1.07
DOE 4.5.2.3	TH-234	SCAQC-7933-LD1	1.15	± 0.333	0.779	± 0.285	0.373	1.70
DOE 4.5.2.3	TH-234	SCAQC-7938-LD1	1.49	± 0.430	0.962	± 0.315	0.524	1.97
DOE 4.5.2.3	U-235	SCAQC-7936-LD1	0.117	± 0.093	0.079	± 0.095	0.038	0.577
DOE 4.5.2.3	U-235	SCAQC-7934-LD1	-0.028	± 0.110	0.057	± 0.100	0.085	1.15
DOE 4.5.2.3	U-235	SCAQC-7935-LD1	0.014	± 0.094	-0.005	± 0.097	0.018	0.274
DOE 4.5.2.3	U-235	SCAQC-7933-LD1	0.074	± 0.096	0.012	± 0.108	0.062	0.849
DOE 4.5.2.3	U-235	SCAQC-7938-LD1	-0.008	± 0.084	0.037	± 0.097	0.045	0.710
DOE 4.5.2.3	U-235	SCAQC-7937-LD1	0.014	± 0.097	0.119	± 0.114	0.105	1.40
DOE 4.5.2.3	NP-236	SCAQC-7936-LD1	0.022	± 0.031	0.036	± 0.035	0.014	0.600
DOE 4.5.2.3	NP-236	SCAQC-7938-LD1	0.039	± 0.030	0.039	± 0.030	3.9e-04	0.019
DOE 4.5.2.3	NP-236	SCAQC-7935-LD1	0.009	± 0.035	0.004	± 0.031	0.005	0.201
DOE 4.5.2.3	NP-236	SCAQC-7933-LD1	0.002	± 0.032	0.031	± 0.033	0.029	1.25
DOE 4.5.2.3	NP-236	SCAQC-7934-LD1	0.014	± 0.035	0.016	± 0.032	0.001	0.060
DOE 4.5.2.3	NP-236	SCAQC-7937-LD1	0.060	± 0.035	0.034	± 0.034	0.026	1.06
DOE 4.5.2.3	NP-237	SCAQC-7937-LD1	0.433	± 0.174	0.586	± 0.174	0.152	1.24
DOE 4.5.2.3	NP-237	SCAQC-7935-LD1	0.510	± 0.169	0.555	± 0.183	0.045	0.362
DOE 4.5.2.3	NP-237	SCAQC-7938-LD1	0.493	± 0.163	0.486	± 0.139	0.006	0.060
DOE 4.5.2.3	NP-237	SCAQC-7934-LD1	0.430	± 0.158	0.388	± 0.178	0.043	0.358
DOE 4.5.2.3	NP-237	SCAQC-7933-LD1	0.470	± 0.173	0.492	± 0.144	0.023	0.201
DOE 4.5.2.3	NP-237	SCAQC-7936-LD1	0.496	± 0.190	0.337	± 0.152	0.159	1.31
DOE 4.5.2.3	NP-239	SCAQC-7935-LD1	0.080	± 0.099	-0.107	± 0.099	0.187	2.68
DOE 4.5.2.3	NP-239	SCAQC-7938-LD1	-0.007	± 0.090	-0.050	± 0.103	0.043	0.634
DOE 4.5.2.3	NP-239	SCAQC-7933-LD1	0.005	± 0.094	0.083	± 0.113	0.078	1.07
DOE 4.5.2.3	NP-239	SCAQC-7937-LD1	0.086	± 0.105	0.010	± 0.117	0.076	0.972
DOE 4.5.2.3	NP-239	SCAQC-7936-LD1	-0.030	± 0.097	0.038	± 0.093	0.068	1.01
DOE 4.5.2.3	NP-239	SCAQC-7934-LD1	-0.001	± 0.119	0.048	± 0.098	0.049	0.636
DOE 4.5.2.3	AM-241	SCAQC-7938-LD1	0.050	± 0.078	0.051	± 0.032	0.001	0.028
DOE 4.5.2.3	AM-241	SCAQC-7934-LD1	-0.117	± 0.040	0.052	± 0.091	0.169	3.40
DOE 4.5.2.3	AM-241	SCAQC-7937-LD1	0.015	± 0.092	0.022	± 0.037	0.007	0.143
DOE 4.5.2.3	AM-241	SCAQC-7935-LD1	0.036	± 0.089	0.096	± 0.091	0.060	0.944
DOE 4.5.2.3	AM-241	SCAQC-7933-LD1	0.008	± 0.089	0.043	± 0.036	0.035	0.724
DOE 4.5.2.3	AM-241	SCAQC-7936-LD1	0.003	± 0.084	0.103	± 0.088	0.099	1.63
DOE 4.5.2.3	AM-243	SCAQC-7934-LD1	0.134	± 0.044	0.183	± 0.057	0.049	1.36
DOE 4.5.2.3	AM-243	SCAQC-7935-LD1	0.158	± 0.053	0.191	± 0.058	0.033	0.831
DOE 4.5.2.3	AM-243	SCAQC-7933-LD1	0.204	± 0.060	0.160	± 0.047	0.044	1.16
DOE 4.5.2.3	AM-243	SCAQC-7938-LD1	0.153	± 0.050	0.149	± 0.043	0.005	0.140

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7933_7938

Project Name: Cabrera Services-Oah
Matrix: Soil
Laboratory Code: SCA

DOE 4.5.2.3	AM-243	SCAQC-7936-LD1	0.145	± 0.048	0.172	± 0.057	0.028	0.744
DOE 4.5.2.3	AM-243	SCAQC-7937-LD1	0.165	± 0.053	0.144	± 0.043	0.022	0.640
DOE 4.5.2.3	CM-243	SCAQC-7938-LD1	0.020	± 0.044	-9.6e-04	± 0.042	0.021	0.698
DOE 4.5.2.3	CM-243	SCAQC-7933-LD1	-0.013	± 0.050	-0.017	± 0.045	0.004	0.107
DOE 4.5.2.3	CM-243	SCAQC-7936-LD1	-0.001	± 0.049	0.030	± 0.048	0.032	0.927
DOE 4.5.2.3	CM-243	SCAQC-7935-LD1	-0.006	± 0.051	0.032	± 0.050	0.038	1.06
DOE 4.5.2.3	CM-243	SCAQC-7934-LD1	0.004	± 0.047	-0.040	± 0.050	0.044	1.28
DOE 4.5.2.3	CM-243	SCAQC-7937-LD1	0.015	± 0.051	-0.022	± 0.047	0.036	1.05
DOE 4.5.2.3	AM-246	SCAQC-7936-LD1	-0.002	± 0.043	0.041	± 0.045	0.042	1.35
DOE 4.5.2.3	AM-246	SCAQC-7933-LD1	0.061	± 0.052	0.037	± 0.060	0.024	0.612
DOE 4.5.2.3	AM-246	SCAQC-7935-LD1	-0.003	± 0.046	0.028	± 0.051	0.031	0.904
DOE 4.5.2.3	AM-246	SCAQC-7937-LD1	-0.002	± 0.047	-0.002	± 0.058	4.6e-04	0.012
DOE 4.5.2.3	AM-246	SCAQC-7934-LD1	-0.012	± 0.063	0.015	± 0.048	0.027	0.686
DOE 4.5.2.3	AM-246	SCAQC-7938-LD1	-0.015	± 0.040	0.043	± 0.052	0.058	1.76
DOE 4.5.2.3	CF-249	SCAQC-7938-LD1	-0.007	± 0.014	-6.3e-04	± 0.017	0.007	0.582
DOE 4.5.2.3	CF-249	SCAQC-7937-LD1	0.007	± 0.017	0.007	± 0.021	1.7e-04	0.013
DOE 4.5.2.3	CF-249	SCAQC-7935-LD1	0.007	± 0.017	-0.004	± 0.017	0.010	0.870
DOE 4.5.2.3	CF-249	SCAQC-7934-LD1	0.007	± 0.022	-0.004	± 0.017	0.011	0.776
DOE 4.5.2.3	CF-249	SCAQC-7936-LD1	0.008	± 0.016	-0.009	± 0.016	0.017	1.50
DOE 4.5.2.3	CF-249	SCAQC-7933-LD1	-0.013	± 0.016	-0.010	± 0.020	0.003	0.252

SAMPLE AND QC RESULTS SUMMARY

GPL Laboratories, LLLP
Frederick, MD

Analytical Report For 710114

for

SC&A, Inc.

Project Manager: Cynthia White

Project Name: Cabrera-Schofield CZ

GPL

Laboratories

GPL Laboratories, LLLP certifies that the test results meet all requirements of the NELAC Standards unless otherwise noted.

Reviewed By,
Project Manager

Approved By,
Laboratory Director

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Sixty-six soil samples were received on 10/15/2007. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

The samples were received pre-dried and homogenized by SC&A. The Pb results presented in this report are not corrected for percent solids.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Metals

Sixty-six soil samples were analyzed for lead only by EPA SW846 method.

The samples were assumed 100 percent solid.

The matrix spike, matrix spike duplicate, and serial dilutions were performed on soil samples SB-CZ-SS-2210-ST, SB-CZ-SS-2215-SD, SB-CZ-SS-2202-ST, and SB-CZ-SS-2208-ST for lead. They were within the control limits.

Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.

All GPL QA/QC criteria were met.

Reviewed By,
Project Manager

Approved By,
Laboratory Director

Sample Summary Report

SC&A, Inc.

Work Order: 710114

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
SB-CZ-SS-2191-SD	710114-043-043-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2191-ST	710114-029-029-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2192-SD	710114-044-044-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2192-ST	710114-030-030-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2193-SD	710114-045-045-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2193-ST	710114-031-031-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2194-SD	710114-046-046-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2194-ST	710114-032-032-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2195-SD	710114-047-047-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2195-ST	710114-033-033-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2196-SD	710114-048-048-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2196-ST	710114-034-034-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2197-SD	710114-049-049-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2197-ST	710114-035-035-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2198-SD	710114-050-050-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2198-ST	710114-036-036-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2199-SD	710114-051-051-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2199-ST	710114-037-037-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2200-SD	710114-052-052-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2200-ST	710114-038-038-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2201-SD	710114-053-053-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2201-ST	710114-039-039-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2202-SD	710114-054-054-1/1	SW6010C	SOIL	09/26/2007	10/15/2007

Sample Summary Report

SC&A, Inc.

Work Order: 710114

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
SB-CZ-SS-2202-ST	710114-040-040-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2203-SD	710114-055-055-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2203-ST	710114-041-041-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2204-SD	710114-056-056-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2204-ST	710114-042-042-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2205-SD	710114-062-062-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2205-ST	710114-057-057-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2206-SD	710114-063-063-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2206-ST	710114-058-058-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2207-SD	710114-064-064-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2207-ST	710114-059-059-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2208-SD	710114-065-065-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2208-ST	710114-060-060-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2209-SD	710114-066-066-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2209-ST	710114-061-061-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2210-SD	710114-015-015-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2210-ST	710114-001-001-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2211-SD	710114-016-016-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2211-ST	710114-002-002-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2212-SD	710114-017-017-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2212-ST	710114-003-003-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2213-SD	710114-018-018-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2213-ST	710114-004-004-1/1	SW6010C	SOIL	09/26/2007	10/15/2007

Sample Summary Report

SC&A, Inc.

Work Order: 710114

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
SB-CZ-SS-2214-SD	710114-019-019-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2214-ST	710114-005-005-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2215-SD	710114-020-020-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2215-ST	710114-006-006-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2216-SD	710114-021-021-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2216-ST	710114-007-007-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2217-SD	710114-022-022-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2217-ST	710114-008-008-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2218-SD	710114-023-023-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2218-ST	710114-009-009-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2219-SD	710114-024-024-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2219-ST	710114-010-010-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2220-SD	710114-025-025-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2220-ST	710114-011-011-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2221-SD	710114-026-026-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2221-ST	710114-012-012-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2222-SD	710114-027-027-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2222-ST	710114-013-013-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2223-SD	710114-028-028-1/1	SW6010C	SOIL	09/26/2007	10/15/2007
SB-CZ-SS-2223-ST	710114-014-014-1/1	SW6010C	SOIL	09/26/2007	10/15/2007

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2210-ST	Lab Sample ID:	710114-001-001-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**202**	**D**	**8.9**	**10**	**mg/kg**	**10/19/07**	**14:47**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2211-ST	Lab Sample ID:	710114-002-002-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**42.8**	**D**	**8.2**	**10**	**mg/kg**	**10/19/07**	**15:33**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2212-ST	Lab Sample ID:	710114-003-003-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**195**	**D**	**8.8**	**10**	**mg/kg**	**10/19/07**	**15:42**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2213-ST	Lab Sample ID:	710114-004-004-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**84.1**	**D**	**8.1**	**10**	**mg/kg**	**10/19/07**	**15:52**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2214-ST	Lab Sample ID:	710114-005-005-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**120**	**D**	**8.7**	**10**	**mg/kg**	**10/19/07**	**16:23**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2215-ST	Lab Sample ID:	710114-006-006-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**45.0**	**D**	**8.3**	**10**	**mg/kg**	**10/19/07**	**16:32**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2216-ST	Lab Sample ID:	710114-007-007-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**14.6**	**D**	**8.3**	**10**	**mg/kg**	**10/19/07**	**16:42**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2217-ST	Lab Sample ID:	710114-008-008-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**19.1**	**D**	**8.5**	**10**	**mg/kg**	**10/19/07**	**16:51**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2218-ST	Lab Sample ID:	710114-009-009-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**11.5**	**D**	**8.1**	**10**	**mg/kg**	**10/19/07**	**17:00**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2219-ST	Lab Sample ID:	710114-010-010-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**66.8**	**D**	**8.8**	**10**	**mg/kg**	**10/19/07**	**17:10**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2220-ST	Lab Sample ID:	710114-011-011-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**64.3**	**D**	**8.3**	**10**	**mg/kg**	**10/19/07**	**17:19**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2221-ST	Lab Sample ID:	710114-012-012-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**169**	**D**	**8.7**	**10**	**mg/kg**	**10/19/07**	**17:29**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2222-ST	Lab Sample ID:	710114-013-013-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**72.4**	**D**	**8.1**	**10**	**mg/kg**	**10/19/07**	**17:38**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2223-ST	Lab Sample ID:	710114-014-014-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**152**	**D**	**8.5**	**10**	**mg/kg**	**10/19/07**	**17:47**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2210-SD	Lab Sample ID:	710114-015-015-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**137**	**D**	**8.2**	**10**	**mg/kg**	**10/19/07**	**18:19**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2211-SD	Lab Sample ID:	710114-016-016-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**28.9**	**D**	**8.2**	**10**	**mg/kg**	**10/19/07**	**18:28**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2212-SD	Lab Sample ID:	710114-017-017-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**46.6**	**D**	**8.3**	**10**	**mg/kg**	**10/19/07**	**18:37**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2213-SD	Lab Sample ID:	710114-018-018-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**34.1**	**D**	**8.8**	**10**	**mg/kg**	**10/19/07**	**18:47**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2214-SD	Lab Sample ID:	710114-019-019-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 00:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**27.2**	**D**	**8.2**	**10**	**mg/kg**	**10/19/07**	**18:56**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2215-SD	Lab Sample ID:	710114-020-020-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**23.5**	**D**	**8.8**	**10**	**mg/kg**	**10/19/07**	**19:27**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2216-SD	Lab Sample ID:	710114-021-021-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	Lead	7.8	JD	8.5	10	mg/kg	10/19/07	20:36

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2217-SD	Lab Sample ID:	710114-022-022-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.6**	**D**	**8.7**	**10**	**mg/kg**	**10/19/07**	**20:45**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2218-SD	Lab Sample ID:	710114-023-023-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**11.9**	**D**	**8.8**	**10**	**mg/kg**	**10/19/07**	**20:54**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2219-SD	Lab Sample ID:	710114-024-024-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**25.5**	**D**	**8.5**	**10**	**mg/kg**	**10/19/07**	**21:04**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2220-SD	Lab Sample ID:	710114-025-025-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**24.0**	**D**	**8.7**	**10**	**mg/kg**	**10/19/07**	**21:13**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2221-SD	Lab Sample ID:	710114-026-026-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**30.0**	**D**	**8.8**	**10**	**mg/kg**	**10/19/07**	**22:03**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2222-SD	Lab Sample ID:	710114-027-027-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**23.1**	**D**	**8.3**	**10**	**mg/kg**	**10/19/07**	**22:12**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2223-SD	Lab Sample ID:	710114-028-028-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**17.2**	**D**	**8.7**	**10**	**mg/kg**	**10/19/07**	**22:22**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2191-ST	Lab Sample ID:	710114-029-029-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**74.3**	**D**	**7.8**	**10**	**mg/kg**	**10/19/07**	**22:31**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2192-ST	Lab Sample ID:	710114-030-030-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**87.2**	**D**	**8.3**	**10**	**mg/kg**	**10/19/07**	**22:40**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2193-ST	Lab Sample ID:	710114-031-031-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**85.7**	**D**	**8.6**	**10**	**mg/kg**	**10/19/07**	**22:50**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2194-ST	Lab Sample ID:	710114-032-032-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**149**	**D**	**8.2**	**10**	**mg/kg**	**10/19/07**	**22:59**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2195-ST	Lab Sample ID:	710114-033-033-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**197**	**D**	**8.5**	**10**	**mg/kg**	**10/19/07**	**23:08**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2196-ST	Lab Sample ID:	710114-034-034-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**159**	**D**	**7.9**	**10**	**mg/kg**	**10/19/07**	**23:18**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2197-ST	Lab Sample ID:	710114-035-035-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**72.0**	**D**	**8.7**	**10**	**mg/kg**	**10/19/07**	**23:27**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2198-ST	Lab Sample ID:	710114-036-036-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**31.0**	**D**	**8.2**	**10**	**mg/kg**	**10/19/07**	**23:58**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2199-ST	Lab Sample ID:	710114-037-037-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**41.4**	**D**	**8.5**	**10**	**mg/kg**	**10/20/07**	**00:08**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2200-ST	Lab Sample ID:	710114-038-038-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**44.7**	**D**	**8.8**	**10**	**mg/kg**	**10/20/07**	**00:17**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2201-ST	Lab Sample ID:	710114-039-039-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/16/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**266**	**D**	**8.5**	**10**	**mg/kg**	**10/20/07**	**00:26**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2202-ST	Lab Sample ID:	710114-040-040-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**35.1**	**D**	**9.1**	**10**	**mg/kg**	**10/22/07**	**15:04**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2203-ST	Lab Sample ID:	710114-041-041-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**31.6**	**D**	**8.3**	**10**	**mg/kg**	**10/22/07**	**15:51**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2204-ST	Lab Sample ID:	710114-042-042-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**27.5**	**D**	**7.9**	**10**	**mg/kg**	**10/22/07**	**16:00**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2191-SD	Lab Sample ID:	710114-043-043-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**52.2**	**D**	**8.3**	**10**	**mg/kg**	**10/22/07**	**16:10**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2192-SD	Lab Sample ID:	710114-044-044-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**17.5**	**D**	**8.6**	**10**	**mg/kg**	**10/22/07**	**16:40**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2193-SD	Lab Sample ID:	710114-045-045-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**60.0**	**D**	**8.4**	**10**	**mg/kg**	**10/22/07**	**16:50**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2194-SD	Lab Sample ID:	710114-046-046-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**142**	**D**	**8.3**	**10**	**mg/kg**	**10/22/07**	**16:59**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2195-SD	Lab Sample ID:	710114-047-047-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**33.3**	**D**	**9**	**10**	**mg/kg**	**10/22/07**	**17:08**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2196-SD	Lab Sample ID:	710114-048-048-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**95.2**	**D**	**8.7**	**10**	**mg/kg**	**10/22/07**	**17:18**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2197-SD	Lab Sample ID:	710114-049-049-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**28.5**	**D**	**8.3**	**10**	**mg/kg**	**10/22/07**	**17:27**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2198-SD	Lab Sample ID:	710114-050-050-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**16.4**	**D**	**9.1**	**10**	**mg/kg**	**10/22/07**	**17:36**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2199-SD	Lab Sample ID:	710114-051-051-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**34.2**	**D**	**8.7**	**10**	**mg/kg**	**10/22/07**	**17:46**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2200-SD	Lab Sample ID:	710114-052-052-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**26.1**	**D**	**7.9**	**10**	**mg/kg**	**10/22/07**	**17:55**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2201-SD	Lab Sample ID:	710114-053-053-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**32.3**	**D**	**8.5**	**10**	**mg/kg**	**10/22/07**	**18:04**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2202-SD	Lab Sample ID:	710114-054-054-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**15.9**	**D**	**9**	**10**	**mg/kg**	**10/22/07**	**18:35**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2203-SD	Lab Sample ID:	710114-055-055-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**37.2**	**D**	**8.3**	**10**	**mg/kg**	**10/22/07**	**18:45**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2204-SD	Lab Sample ID:	710114-056-056-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**15.3**	**D**	**8.3**	**10**	**mg/kg**	**10/22/07**	**18:54**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2205-ST	Lab Sample ID:	710114-057-057-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**34.9**	**D**	**8.3**	**10**	**mg/kg**	**10/22/07**	**19:04**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2206-ST	Lab Sample ID:	710114-058-058-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**114**	**D**	**8.5**	**10**	**mg/kg**	**10/22/07**	**19:13**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2207-ST	Lab Sample ID:	710114-059-059-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**75.5**	**D**	**8.3**	**10**	**mg/kg**	**10/22/07**	**19:22**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2208-ST	Lab Sample ID:	710114-060-060-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**88.4**	**D**	**8.3**	**10**	**mg/kg**	**10/22/07**	**19:54**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2209-ST	Lab Sample ID:	710114-061-061-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**36.8**	**D**	**7.9**	**10**	**mg/kg**	**10/22/07**	**21:02**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2205-SD	Lab Sample ID:	710114-062-062-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**14.2**	**D**	**9**	**10**	**mg/kg**	**10/22/07**	**21:11**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2206-SD	Lab Sample ID:	710114-063-063-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**79.9**	**D**	**8.5**	**10**	**mg/kg**	**10/22/07**	**21:21**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2207-SD	Lab Sample ID:	710114-064-064-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**17.4**	**D**	**8.8**	**10**	**mg/kg**	**10/22/07**	**21:30**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2208-SD	Lab Sample ID:	710114-065-065-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**30.0**	**D**	**8.7**	**10**	**mg/kg**	**10/22/07**	**22:20**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2209-SD	Lab Sample ID:	710114-066-066-1/1
Sample Date/Time:	09/26/2007 15:36	Percent Moisture:	NA
Receipt Date/Time:	10/15/2007 15:13	Preparation Method:	SW3050B
Prepared Date/Time:	10/17/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**43.1**	**D**	**8**	**10**	**mg/kg**	**10/22/07**	**22:29**

GPL Laboratories, LLLP

Preparation Blank Results

Project:	710114	Matrix:	Soil
Lab Sample ID:	BLK100908	Percent Moisture:	0.0
Client Sample ID:	NA	Prep Batch:	100908
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	0.19	1.0	0.19	U	1	10/19/07 14:28

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

SW846

GPL Laboratories, LLLP

Preparation Blank Results

Project:	710114	Matrix:	Soil
Lab Sample ID:	BLK100964	Percent Moisture:	0.0
Client Sample ID:	NA	Prep Batch:	100964
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	0.19	1.0	0.19	U	1	10/19/07 19:09

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

GPL Laboratories, LLLP

Preparation Blank Results

Project:	710114	Matrix:	Soil
Lab Sample ID:	BLK100991	Percent Moisture:	0.0
Client Sample ID:	NA	Prep Batch:	100991
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	0.19	1.0	0.19	U	1	10/22/07 14:46

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Preparation Blank Results

Project:	710114	Matrix:	Soil
Lab Sample ID:	BLK100994	Percent Moisture:	0.0
Client Sample ID:	NA	Prep Batch:	100994
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	0.19	1.0	0.19	U	1	10/22/07 19:35

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Matrix Spike Recovery

Client ID:	SB-CZ-SS-2210-ST MS	Lab Sample ID:	SP710114-001-001-1/1
Project:	710114	Instrument:	P3050
Units:	mg/kg	Data File Name:	071019.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/19/07 14:56	Sample Result 10/19/07 14:47	Spike Added	%R
Lead	288.42	202.19	86.21	100

GPL Laboratories, LLLP

Matrix Spike Recovery

Client ID:	SB-CZ-SS-2215-SD MS	Lab Sample ID:	SP710114-020-020-1/1
Project:	710114	Instrument:	P3050
Units:	mg/kg	Data File Name:	071019.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/19/07 19:36	Sample Result 10/19/07 19:27	Spike Added	%R
Lead	111.73	23.49	83.33	106

GPL Laboratories, LLLP

Matrix Spike Recovery

Client ID:	SB-CZ-SS-2202-ST MS	Lab Sample ID:	SP710114-040-040-1/1
Project:	710114	Instrument:	P3050
Units:	mg/kg	Data File Name:	071022.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/22/07 15:13	Sample Result 10/22/07 15:04	Spike Added	%R
Lead	124.70	35.10	87.72	102

GPL Laboratories, LLLP

Matrix Spike Recovery

Client ID:	SB-CZ-SS-2208-ST MS	Lab Sample ID:	SP710114-060-060-1/1
Project:	710114	Instrument:	P3050
Units:	mg/kg	Data File Name:	071022.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/22/07 20:03		Sample Result 10/22/07 19:54		Spike Added	%R
Lead	158.90		88.39		80.65	87

GPL Laboratories, LLLP

Matrix Spike Duplicate Recovery

Client ID:	SB-CZ-SS-2210-ST MSD	Lab Sample ID:	SD710114-001-001-1/1
Project:	710114	Instrument:	P3050
Units:	mg/kg	Data File Name:	071019.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/19/07 15:05	Sample Result 10/19/07 14:47	Spike Added	%R
Lead	303.94	202.19	84.75	120

GPL Laboratories, LLLP

Matrix Spike Duplicate Recovery

Client ID:	SB-CZ-SS-2215-SD MSD	Lab Sample ID:	SD710114-020-020-1/1
Project:	710114	Instrument:	P3050
Units:	mg/kg	Data File Name:	071019.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/19/07 19:46	Sample Result 10/19/07 19:27	Spike Added	%R
Lead	110.35	23.49	80.65	108

GPL Laboratories, LLLP

Matrix Spike Duplicate Recovery

Client ID:	SB-CZ-SS-2202-ST MSD	Lab Sample ID:	SD710114-040-040-1/1
Project:	710114	Instrument:	P3050
Units:	mg/kg	Data File Name:	071022.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/22/07 15:23	Sample Result 10/22/07 15:04	Spike Added	%R
Lead	122.60	35.10	84.03	104

GPL Laboratories, LLLP

Matrix Spike Duplicate Recovery

Client ID:	SB-CZ-SS-2208-ST MSD	Lab Sample ID:	SD710114-060-060-1/1
Project:	710114	Instrument:	P3050
Units:	mg/kg	Data File Name:	071022.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/22/07 20:34	Sample Result 10/22/07 19:54	Spike Added	%R
Lead	163.68	88.39	78.13	96

GPL Laboratories, LLLP

Duplicates RPD

Client ID:	SB-CZ-SS-2210-ST MSD	Lab Sample ID:	SD710114-001-001-1/1
Project:	710114	Instrument:	P3050
Units:	mg/kg	Data File Name:	071019.ARC

Analyte	Matrix Spike Original Sample Results RA ID-26		Matrix Spike Duplicate Sample Results		RPD	Control Limit	Q
Lead	288.42		303.94		5	20	D

GPL Laboratories, LLLP

Duplicates RD

Client ID:	SB-CZ-SS-2215-SD MSD	Lab Sample ID:	SD710114-020-020-1/1
Project:	710114	Instrument:	P3050
Units:	mg/kg	Data File Name:	071019.ARC

Analyte	Matrix Spike Original Sample Results RA 10-26	Matrix Spike Duplicate Sample Results	RPD	Control Limit	Q
Lead	111.73	110.35	1	20	D

GPL Laboratories, LLLP

Duplicates RPD

Client ID:	SB-CZ-SS-2202-ST MSD	Lab Sample ID:	SD710114-040-040-1/1
Project:	710114	Instrument:	P3050
Units:	mg/kg	Data File Name:	071022.ARC

Analyte	Matrix Spike ~~Original Sample~~ Results RA 10-26	Matrix Spike ^ Duplicate Sample Results	RPD	Control Limit	Q
Lead	124.70	122.60	2	20	D

GPL Laboratories, LLLP

Duplicates RPD

Client ID:	SB-CZ-SS-2208-ST MSD	Lab Sample ID:	SD710114-060-060-1/1
Project:	710114	Instrument:	P3050
Units:	mg/kg	Data File Name:	071022.ARC

Analyte	Matrix Spike Original Sample Results 1,3,16-26	Matrix Spike Duplicate Sample Results	RPD	Control Limit	Q
Lead	158.90	163.68	3	20	D

GPL Laboratories, LLLP

Laboratory Control Sample

Project:	710114	Lab Sample ID:	BKS100908
Units:	mg/kg	Instrument:	P3050
		Data File Name:	071019.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/19/07 14:37	Spike Added	%R
Lead	100.35	100.00	100

GPL Laboratories, LLLP

Laboratory Control Sample

Project:	710114	Lab Sample ID:	BKS100964
Units:	mg/kg	Instrument:	P3050
		Data File Name:	071019.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/19/07 19:18	Spike Added	%R
Lead	102.50	100.00	102

GPL Laboratories, LLLP

Laboratory Control Sample

Project:	710114	Lab Sample ID:	BKS100991
Units:	mg/kg	Instrument:	P3050
		Data File Name:	071022.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/22/07 14:55	Spike Added	%R
Lead	101.83	100.00	102

GPL Laboratories, LLLP

Laboratory Control Sample

Project:	710114	Lab Sample ID:	BKS100994
Units:	mg/kg	Instrument:	P3050
		Data File Name:	071022.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/22/07 19:44	Spike Added	%R
Lead	98.92	100.00	99

Qualifier Definitions

SC&A, Inc.

Work Order: 710114

All Departments

U	Indicates that the compound was analyzed for but not detected
BQL	Below Quantitation Limit

Organics

B	Indicates that the analyte was found in the associated blank as well as in the sample
D	Indicates that the analyte was reported from a diluted analysis
E	Indicates that the concentration detected exceeded the calibration range of the instrument
J	Value is less than the reporting limit but greater than the MDL
P	Indicates that there is greater than 25% difference for detected pesticide/Arochlor results between the two GC columns

Metals

J	Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL
E	Indicates that the reported value is estimated because of the possible presence of interference (i.e. the serial dilution not within control limits)
H	Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit
D	Indicates that the analyte was reported from a diluted analysis
N	Spiked sample recovery not within control limits
*	Duplicate analysis not within control limits

Chain of Custody

SC&A, Inc.

SDG: 710114

SC & A
CHAIN OF CUSTODY RECORD
1000 MONTICELLO COURT
MONTGOMERY, AL 36117
(334) 272-2334 (334)213-0407 FAX

WORK ASSIGNMENT #: 02-2080.04
PROJECT NAME: Schofield GC
Client Name: SAIC

ANALYSIS REQUESTED

FOR LABORATORY USE

Project Manager: Greg Walker
Requested Comp. Date: 8 days 7 days
Notify Upon Receipt?
Cool ice

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS	Lead	Diesel	Jet Fuel	Laboratory Comments
1	9/26/2007		Soil	SB-CZ-SS-2210-ST	1	X			
2	9/26/2007		Soil	SB-CZ-SS-2211-ST	1	X			
3	9/26/2007		Soil	SB-CZ-SS-2212-ST	1	X			
4	9/26/2007		Soil	SB-CZ-SS-2213-ST	1	X			
5	9/26/2007		Soil	SB-CZ-SS-2214-ST	1	X			
6	9/26/2007		Soil	SB-CZ-SS-2215-ST	1	X			
7	9/26/2007		Soil	SB-CZ-SS-2216-ST	1	X			
8	9/26/2007		Soil	SB-CZ-SS-2217-ST	1	X			
9	9/26/2007		Soil	SB-CZ-SS-2218-ST	1	X			
10	9/26/2007		Soil	SB-CZ-SS-2219-ST	1	X			
11	9/26/2007		Soil	SB-CZ-SS-2220-ST	1	X			
12	9/26/2007		Soil	SB-CZ-SS-2221-ST	1	X			
13	9/26/2007		Soil	SB-CZ-SS-2222-ST	1	X			
14	9/26/2007		Soil	SB-CZ-SS-2223-ST	1	X			

Sampled by and Title: Alfred Craig FSP
Date/Time: 9-26-07
Relinquished by: Alfred Craig FSP
Date/Time:
Relinquished by:
Date/Time:
Relinquished by:
Date/Time:
Received for Lab by:
Date/Time:
Received by:
Date/Time:
Remarks:
Sample shipped via: UPS FedEx HAND OTHER
Air Bill #:

	Laboratory Comments	Courier ID	Lab ID	QC Level 1 2 3
PO # ____ of ____			Date/Time Rec'd	COC Y N
			Rec'd Wt.	ANA Y N
			Cust. Seal	TEMP Y N
			Cooler	pH Y N

Chain of Custody

SC&A, Inc.

SDG: 710114

SC & A
CHAIN OF CUSTODY RECORD
1030 MONTICELLO COURT
MONTGOMERY, AL 36117
(334) 272-2334 (334)213-0407 FAX

WORK ASSIGNMENT #
42-3880.04
Client Name: SC&A

PROJECT NAME:
Schofield C2

ANALYSIS REQUESTED

FOR LABORATORY USE

Laboratory Prefix

Study I.D.

Project Manager: Greg Miller
Requested Comp. Date
28 days T.A.T.

Notify Upon Receipt?

Sample I.D.

COC# 28

Pg of

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS	Cr & Lead	8081	1934	Labora tory	Comments
1	9/26/2007		Soil	SB-CZ-SS-2210-SD	1	X		01		
2	9/26/2007		Soil	SB-CZ-SS-2211-SD	1	X		02		
3	9/26/2007		Soil	SB-CZ-SS-2212-SD	1	X		03		
4	9/26/2007		Soil	SB-CZ-SS-2213-SD	1	X		04		
5	9/26/2007		Soil	SB-CZ-SS-2214-SD	1	X		05		
6	9/26/2007		Soil	SB-CZ-SS-2215-SD	1	X		06		
7	9/26/2007		Soil	SB-CZ-SS-2216-SD	1	X		07		
8	9/26/2007		Soil	SB-CZ-SS-2217-SD	1	X		08		
9	9/26/2007		Soil	SB-CZ-SS-2218-SD	1	X		09		
10	9/26/2007		Soil	SB-CZ-SS-2219-SD	1	X		10		
11	9/26/2007		Soil	SB-CZ-SS-2220-SD	1	X		11		
12	9/26/2007		Soil	SB-CZ-SS-2221-SD	1	X		12		
13	9/26/2007		Soil	SB-CZ-SS-2222-SD	1	X		13		
14	9/26/2007		Soil	SB-CZ-SS-2223-SD	1	X		14		

Sampled by and Title: Alfred Craig FSP
Date/Time: 9-26-07
Relinquished by: Alfred Craig FSP
Date/Time:
Received by:
Date/Time:
Relinquished by:
Date/Time:
Received by:
Date/Time:
Relinquished by:
Date/Time:
Received by:
Date/Time:

Sample shipped via
UPS FED-EX HAND OTHER
Air Bill #

QC Level 1 2 3
Date/Time Sheet #1 of
COC ICE
AMA TEMP
Eust pH
Sample

Remarks:

Chain of Custody

SC&A, Inc.

SDG: 710114

SC&A
CHAIN OF CUSTODY RECORD
1000 MONTICELLO COURT
MONTGOMERY, AL 36117
(334) 272-2334 (334)213-4407 FAX

WORK ASSIGNMENT #: 02-3900.04
Client Name: JMC
PROJECT NAME: Schofield CZ
ANALYSIS REQUESTED
FOR LABORATORY USE

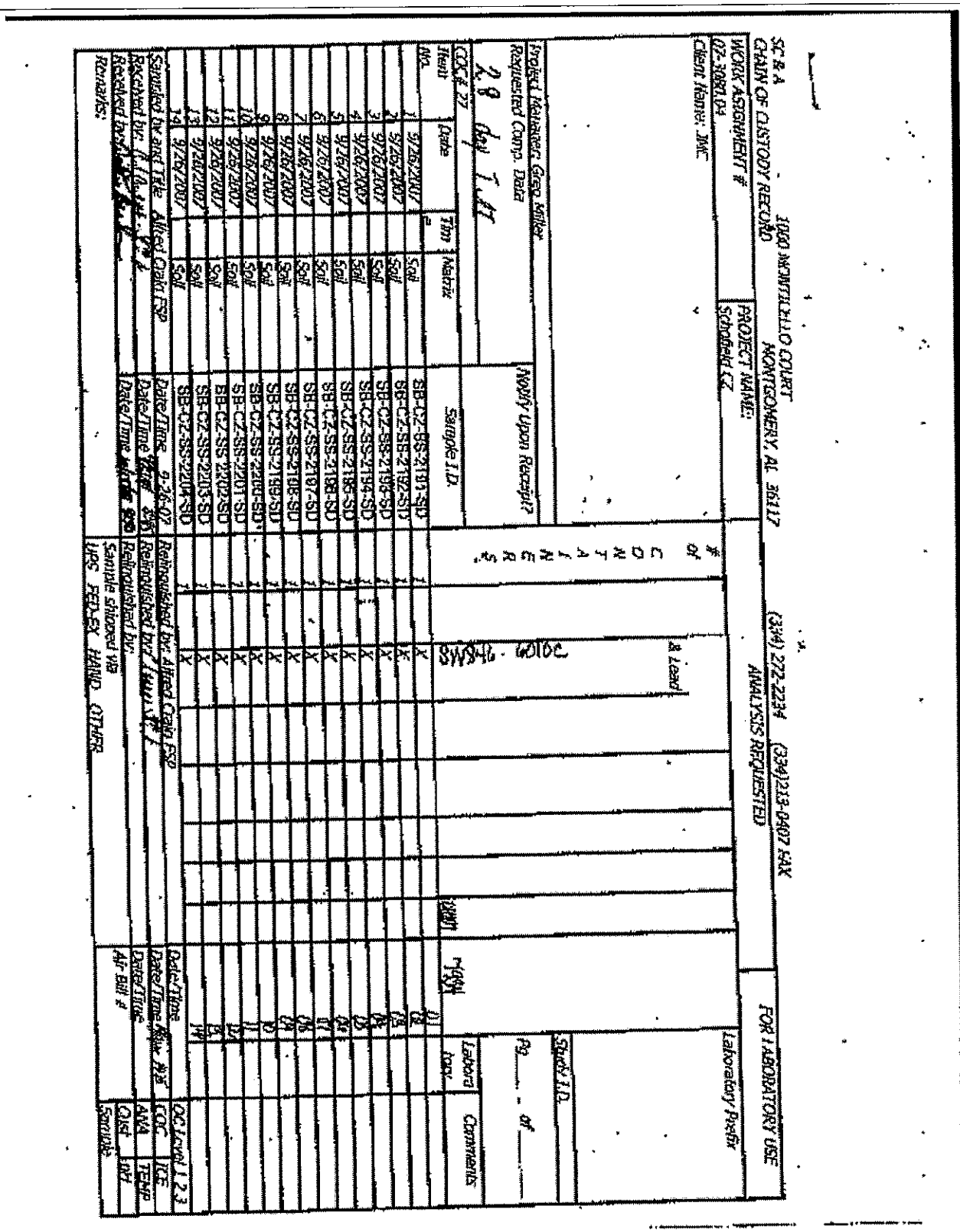
Project Manager: Greg Hillis
Requested Comp. Date: 28 day T.A.T.
Notify Upon Receipt?
Laboratory Prefix: SDG#
Page ___ of ___

COC# 22 Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS	Pb Lead					Comments	Laboratory Use Only
1	9/26/2007		Soil	SB-CZSS-2191-SI	1	X						01
2	9/26/2007		Soil	SB-CZSS-2192-SI	1	X						02
3	9/26/2007		Soil	SB-CZSS-2193-SI	1	X						03
4	9/26/2007		Soil	SB-CZSS-2194-SI	1	X						04
5	9/26/2007		Soil	SB-CZSS-2195-SI	1	X						05
6	9/26/2007		Soil	SB-CZSS-2196-SI	1	X						06
7	9/26/2007		Soil	SB-CZSS-2197-SI	1	X						07
8	9/26/2007		Soil	SB-CZSS-2198-SI	1	X						08
9	9/26/2007		Soil	SB-CZSS-2199-SI	1	X						09
10	9/26/2007		Soil	SB-CZSS-2200-SI	1	X						10
11	9/26/2007		Soil	SB-CZSS-2201-SI	1	X						11
12	9/26/2007		Soil	SB-CZSS-2202-SI	1	X						12
13	9/26/2007		Soil	SB-CZSS-2203-SI	1	X						13
14	9/26/2007		Soil	SB-CZSS-2204-SI	1	X						14

Sampled by and Title: Alfred Craig FSP — Date/Time: 9-26-07
Received by: Alfred Craig FSP — Date/Time: 9-26-07
Relinquished by: Alfred Craig FSP — Date/Time: 9-26-07
Received by: — Date/Time: 9-26-07
Relinquished by: — Date/Time: 9-26-07
Received by: — Date/Time: 9-26-07
Relinquished by: — Date/Time: 9-26-07
Received by: — Date/Time: 9-26-07

Remarks:
Sample shipped via: UPS FED-EX HAND OTHER
Air Bill #:

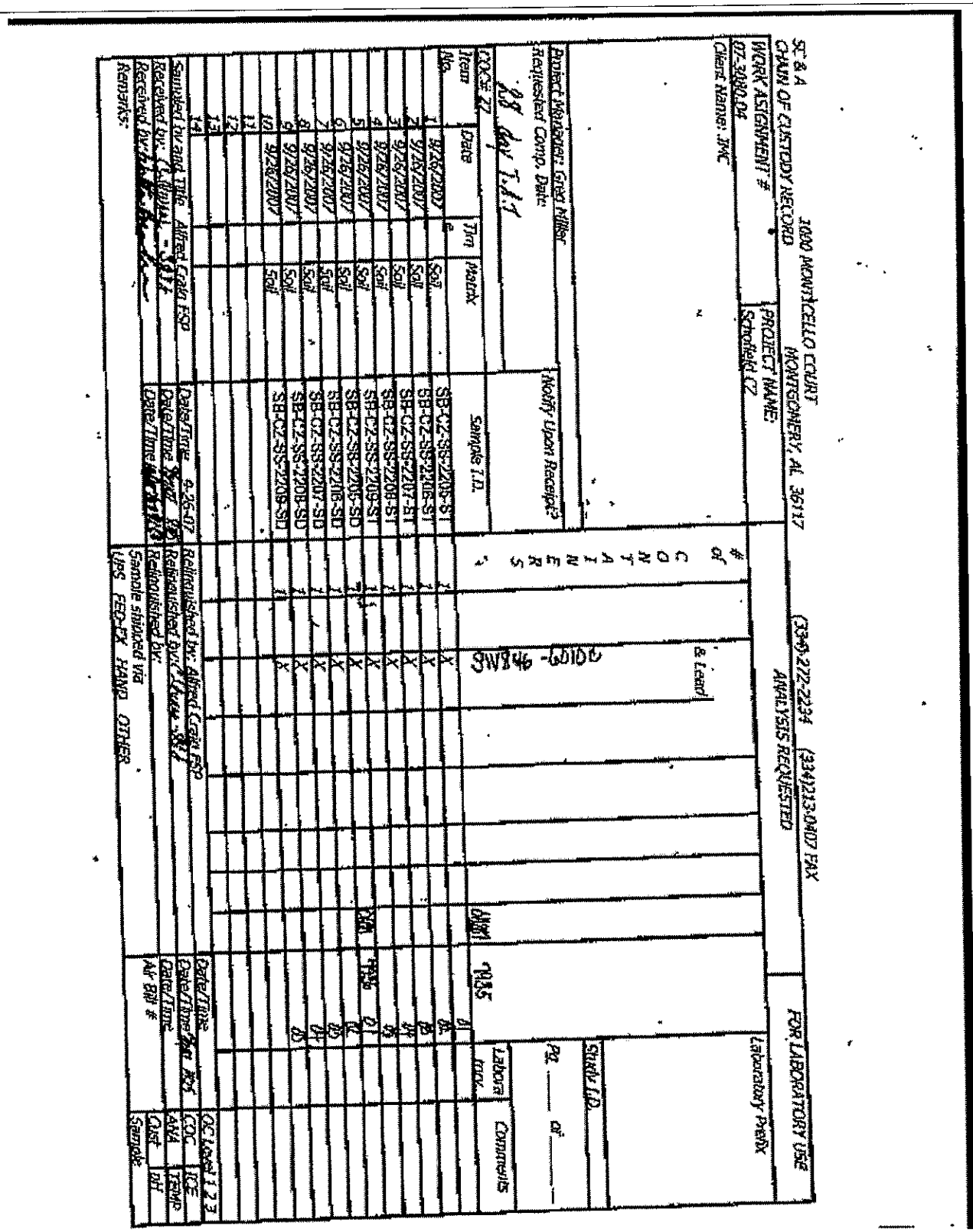
QC Level I II III
COC Y N
RWA Y N
Cust Seal Y N
Sample


SC & A
CHAIN OF CUSTODY RECORD
1000 MONTICELLO COURT
MONTGOMERY, AL 36117
(334) 272-2234
(334)213-9407 FAX
WORK ASSIGNMENT #
02-3001.04
PROJECT NAME:
Schofield CZ
ANALYSIS REQUESTED
FOR LABORATORY USE
Client Name: IMC
Project Manager: Greg Miller
Requested Comp. Date
2-9 day T.A.T.
Notify Upon Receipt?
COC # 27
Heat #
Date
Time
Matrix
Sample I.D.
# of CONTAINERS
Lead
Comments
Laboratory Prefix
Study I.D.
Pg ___ of ___
Date/Time
Date/Time
Air Bill #
QC Level 1 2 3
TCC
TCE
TEMP
Sample
SB-CZ-SS-2201-SD
SB-CZ-SS-2202-SD
SB-CZ-SS-2203-SD
SB-CZ-SS-2204-SD
Relinquished by: Alfred Oaks FSP
Relinquished by:
Relinquished by:
Sample shipped via
UPS FEDEX HAND OTHER
Received by: Alfred Oaks FSP
Received by:
Remarks:

Chain of Custody

SC&A, Inc.

SDG: 710114



SC&A Laboratory Radiological Survey Results

Dose Rate Instrument - Gamma			
Instrument Mfg.	Ludlum		
Model Number	19		
Serial Number	51849		
Alpha Survey Instrument			
Instrument Mfg.	Ludlum	Detector Mfg.	Ludlum
Model Number	16	Model Number	43-5
Serial Number	56585	Serial Number	PR 067187
Beta/Gamma Survey Instrument			
Instrument Mfg.	Ludlum	Detector Mfg.	Ludlum
Model Number	3	Model Number	44-5
Serial Number	120189	Serial Number	PR 067189
Maximum Permissible Limits For Unrestricted Use			
5000 dpm/100 cm² - Alpha (40 CFR 192.12)	5000 dpm/100 cm² - Beta (40 CFR 192.12)		0.2 mR/hr - Gamma (40 CFR 192.12)
Equivalent net cpm: Probe 43-5 15 cpm Probe 43-93 25 cpm	Equivalent net cpm: Probe 44-9 [illegible] cpm Probe 44-84 275 cpm		5000 dpm/100 cm² - probes in use

Location	Type	Time	Beta/Gamma			Alpha			Beta/Gamma		
			Background dpm	Gross dpm	Net dpm	Background CPM	Gross CPM	Net CPM	Background CPM	Gross CPM	Net CPM
Airlock	10/18/07	1520									
Service Cooler / Box											
Inside Cooler / Box											
Sample(s)			5	7	2	0	0	0	30	40	30
Airlock											
Outside Cooler / Box											
Inside Cooler / Box											
Sample(s)											
Airlock											
Outside Cooler / Box											
Inside Cooler / Box											
Sample(s)											
Airlock											
Outside Cooler / Box											
Inside Cooler / Box											
Sample(s)											

Surveyed By: C. Costas

SC&A Southeastern Environmental Laboratory
SEL-Form 10 rev. 1

FedEx | Ship Manager | Label 791410475851

From: Origin ID:MGMA (334)272-2264
Angela Hall
SC&A, Inc.
1000 Monticello Ct.
Montgomery, AL 36117

Ship Date: 12OCT07
Actwgt: 5 LB
System#: 2013822/INET1061
Account: S

Delivery Address Bar Code

Ref#
Invoice#
PO#
Dept#

SHIP TO: (301)694-5310 BILL SENDER
Pat Huebschman
GPL Laboratories
7210A Corporate Court
Frederick, MD 21703

MON - 15OCT A2
PRIORITY OVERNIGHT

TRK# 0201 7914 1047 5851

FE-FDKA

IAD
MD-US
21703

Shipping Label: Your shipment is complete
1. Use the 'Print' feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

.../Shipment/doProcessShipment?method=doProcessShipment 10/12/2007

FedEx | Ship Manager | Label 791410475851 Page 1 of 1

From: Origin ID: MGMA (334) 272-2284
Angie Lewis
SC&A, Inc.
1000 Medical Ct
Montgomery, AL 36117

FedEx Express

Ship Date: 12OCT07
ActWgt: 5 LB
System#: 9036822/NET7001
Account: 5 *****

Delivery Address Bar Code

SHIP TO: (301)694-5310 BILL SENDER
Pat Huebschman
GPL Laboratories
7210A Corporate Court

Frederick, MD 21703

Ref#
Invoice#
PO#
Dept#

TRK# 7914 1047 5851

MON - 15OCT A2
PRIORITY OVERNIGHT

FE-FDKA

IAD
MD-US
21703

Shipping Label. Your shipment is complete

1. Use the 'Print' feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

https://www.fedex.com/ship/domesticShipmentAction.do?method=doProcessShipment 10/12/2007

GPL Laboratories, LLLP

Figure 1
SAMPLE RECEIPT CHECKLIST

W.O. No: 710114 Carrier Name: Fed-ex

Client Name: SC and E Received (Logged In) By: LJ / 10-15-07 (Initials Date)

Date Received: 10-15-07 Project:

Time Received: 0950 Site:

Received By: Walter VOA Holding Blank I.C. No:

	YES	NO		YES	NO
Air/Dust Test Present?	✓		Trip Blanks: No. of Sets		✓
No. 7914 1047 5857.			Field Blanks: No. of Sets		✓
Shipping Container in Good Condition?	✓		Equip. Blanks: No. of Sets		✓
			Field Duplicates: No. of Sets		✓
Custody Seals Present on Shipping Container?	✓		MS/MSD: No of Sets		✓
Condition: Broken ____					
Intact-not dated or signed ____			VOA Vials Have Zero Headspace?	✓	
Intact-dated and signed ✓			Any, smaller or greater than a Green Pea (see comments)		
Judge of Tamper Evident Type		✓	Preservatives Added to Sample?		✓
			pH Check Required?		✓
			Performed By?		✓
Chain-of-Custody Present?	✓		Ice Present in Shipping Container?		✓
Chain-of-Custody Agrees with Sample Labels?	✓		Container #	Temp.	Container #	Temp.
Chain-of-Custody Signed?	✓					
Packing Present in Shipping Container?	✓					
Type of Packing Ziploc						
Custody seals on Sample Bottles?		✓				
Condition: Good ____ Broken ____						
Total Number of Sample Bottles 66						
Total Number of Samples 46						
Samples Intact?	✓					
Sufficient Sample Volume for Indicated Test?	✓					

Project Manager Contacted?
Name: PAT
Date Contacted: 10-16-07

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A.

COMMENTS:

Checklist Completed By: L. J. Dale

Date: 10-15-07

SCP No: 710114

PREPARATION LOGS

SC&A, Inc.
Southeastern Environmental Laboratory

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: OH209 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7933

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-wet	Initials Date
01	1062.5	CD 2/24/01
02	1359.9	
03	1147.6	
04	1575.7	
05	1736.3	
06	1630.2	
07	1668.8	
08	1298.7	
09	1629.5	
10	1521.1	
11	1291.8	
12	960.3	
13	1647.6	
14	1486.0	

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-1 Rev. 0

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: _____ Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7934

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-wet	Initials Date
01	989.6	CD 9/29/97
02	1536.7	
03	1194.5	
04	1527.3	
05	1502.0	
06	1457.0	
07	1345.0	
08	1241.7	
09	1414.0	
10	1522.7	
11	1461.3	
12	1269.4	
13	1764.6	
14	1498.5	

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-1 Rev. 0

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: 011207 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7935

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-wet	Initials Date
01	1320.6	CDP 7/24/11
02	1298.4	
03	1046.2	
04	952.3	
05	1444.0	

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-1 Rev. 0

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: 04207 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7936

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-wet	Initials Date
01	1310.6	CD 7/27/01
02	1100.0	↓
03	1549.3	
04	1075.9	
05	1296.9	

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-1 Rev. 0

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: OH201 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7937

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-wet	Initials Date
01	1605.0	CD 2/9/07
02	1373.7	
03	1105.2	
04	954.0	
05	1325.2	
06	1476.2	
07	1381.9	
08	1271.9	
09	1351.1	
10	1648.0	
11	1511.4	
12	~~1585~~ 1584.5	
13	1150.4	
14	1279.7	

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-1 Rev. 0

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: 011207 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7938

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-wet	Initials Date
01	1356.3	CM 4/29/01
02	1522.8	
03	1699.6	
04	1627.4	
05	1384.9	
06	1436.6	
07	1440.3	
08	1346.2	
09	1186.9	
10	1147.0	
11	1269.0	
12	1542.9	
13	1359.6	
14	1134.8	

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-1 Rev. 0

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: DH209
Sample Batch Number: 7933
Balance I.D.: 1138

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 302
Date: 10-10-07

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	447.1	CO 9/10/07
02	456.0	
03	394.3	
04	459.9	
05	563.1	
06	505.7	
07	511.8	
08	469.9	
09	581.5	
10	550.7	
11	476.5	
12	404.2	
13	532.8	
14	550.4	

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-12 Rev. 0

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: 04207
Sample Batch Number: 7934
Balance I.D.: 1138

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 302
Date: 10-10-07

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	415.5	CW 19/10/07
02	476.0	
03	446.1	
04	475.4	
05	472.4	
06	484.8	
07	501.6	
08	457.3	
09	445.7	
10	485.2	
11	458.0	
12	387.4	
13	483.1	
14	511.6	

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-12 Rev. 0

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: OH207
Sample Batch Number: 7935
Balance I.D.: 1138

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 332
Date: 10-11-07

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	464.8	CO 10/11/07
02	441.6	↓
03	426.1	
04	426.6	
05	397.0	↓

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-12 Rev. 0

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: 014207
Sample Batch Number: 4936
Balance I.D.: 1138

Sample Matrix: Soil
Sample Geometry: 400 mL

SOP No.: 302
Date: 10-11-07

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	466.6	CA 10/11/07
02	350.0	↓
03	406.0	↓
04	412.3	↓
05	447.4	↓

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-12 Rev. 0

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: OH207
Sample Batch Number: 7951
Balance I.D.: 1138

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 302
Date: 10-12-07

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	445.3	CA 10/12/07
02	464.5	
03	443.1	
04	474.4	
05	449.7	
06	295.2	
07	443.1	
08	470.8	
09	363.2	
10	550.9	
11	492.3	
12	506.2	
13	523.2	
14	415.4	"

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-12 Rev. 0

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: 04207
Sample Batch Number: 7938
Balance I.D.: 1139

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 302
Date: 10-12-07

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	565.0	CD 10/12/07
02	468.8	
03	544.0	
04	546.0	
05	526.9	
06	458.2	
07	509.2	
08	330.6	
09	394.3	
10	566.4	
11	571.5	
12	549.8	
13	527.8	
14	397.0	

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-12 Rev. 0

PREPARATION LOGS

GPL Laboratories, LLLP
Frederick, MD

GPL Laboratories, LLLP

Preparation Log

Project: 710114 Instrument: P3050

Prep Method: Batch Number: 100908

Lab Sample ID	Client ID	Preparation Date	Initial Weight (grams)	Final Volume (ml)
BLK100908	BLK100908	10/16/2007	1.00	100
BKS100908	BKS100908	10/16/2007	1.00	100
S 710114-015-015-1/1	SB-CZ-SS-2210-SD	10/16/2007	1.22	100
S 710114-001-001-1/1	SB-CZ-SS-2210-ST	10/16/2007	1.12	100
SP710114-001-001-1/1	SB-CZ-SS-2210-ST MS	10/16/2007	1.16	100
S 710114-016-016-1/1	SB-CZ-SS-2211-SD	10/16/2007	1.22	100
S 710114-002-002-1/1	SB-CZ-SS-2211-ST	10/16/2007	1.22	100
S 710114-017-017-1/1	SB-CZ-SS-2212-SD	10/16/2007	1.20	100
S 710114-003-003-1/1	SB-CZ-SS-2212-ST	10/16/2007	1.13	100
S 710114-018-018-1/1	SB-CZ-SS-2213-SD	10/16/2007	1.13	100
S 710114-004-004-1/1	SB-CZ-SS-2213-ST	10/16/2007	1.24	100
S 710114-019-019-1/1	SB-CZ-SS-2214-SD	10/16/2007	1.22	100
S 710114-005-005-1/1	SB-CZ-SS-2214-ST	10/16/2007	1.15	100
S 710114-006-006-1/1	SB-CZ-SS-2215-ST	10/16/2007	1.21	100
S 710114-007-007-1/1	SB-CZ-SS-2216-ST	10/16/2007	1.20	100
S 710114-008-008-1/1	SB-CZ-SS-2217-ST	10/16/2007	1.18	100
S 710114-009-009-1/1	SB-CZ-SS-2218-ST	10/16/2007	1.23	100
S 710114-010-010-1/1	SB-CZ-SS-2219-ST	10/16/2007	1.14	100
S 710114-011-011-1/1	SB-CZ-SS-2220-ST	10/16/2007	1.20	100
S 710114-012-012-1/1	SB-CZ-SS-2221-ST	10/16/2007	1.15	100
S 710114-013-013-1/1	SB-CZ-SS-2222-ST	10/16/2007	1.23	100
S 710114-014-014-1/1	SB-CZ-SS-2223-ST	10/16/2007	1.18	100
SD710114-001-001-1/1	SB-CZ-SS-2210-ST MSD	10/16/2007	1.18	100

GPL Laboratories, LLLP

Preparation Log

Project: 710114 Instrument: P3050

Prep Method: Batch Number: 100964

Lab Sample ID	Client ID	Preparation Date	Initial Weight (grams)	Final Volume (ml)
BLK100964	BLK100964	10/16/2007	1.00	100
BKS100964	BKS100964	10/16/2007	1.00	100
S 710114-029-029-1/1	SB-CZ-SS-2191-ST	10/16/2007	1.28	100
S 710114-030-030-1/1	SB-CZ-SS-2192-ST	10/16/2007	1.21	100
S 710114-031-031-1/1	SB-CZ-SS-2193-ST	10/16/2007	1.16	100
S 710114-032-032-1/1	SB-CZ-SS-2194-ST	10/16/2007	1.22	100
S 710114-033-033-1/1	SB-CZ-SS-2195-ST	10/16/2007	1.17	100
S 710114-034-034-1/1	SB-CZ-SS-2196-ST	10/16/2007	1.26	100
S 710114-035-035-1/1	SB-CZ-SS-2197-ST	10/16/2007	1.15	100
S 710114-036-036-1/1	SB-CZ-SS-2198-ST	10/16/2007	1.22	100
S 710114-037-037-1/1	SB-CZ-SS-2199-ST	10/16/2007	1.18	100
S 710114-038-038-1/1	SB-CZ-SS-2200-ST	10/16/2007	1.14	100
S 710114-039-039-1/1	SB-CZ-SS-2201-ST	10/16/2007	1.18	100
S 710114-020-020-1/1	SB-CZ-SS-2215-SD	10/16/2007	1.14	100
SP710114-020-020-1/1	SB-CZ-SS-2215-SD MS	10/16/2007	1.20	100
S 710114-021-021-1/1	SB-CZ-SS-2216-SD	10/16/2007	1.17	100
S 710114-022-022-1/1	SB-CZ-SS-2217-SD	10/16/2007	1.15	100
S 710114-023-023-1/1	SB-CZ-SS-2218-SD	10/16/2007	1.14	100
S 710114-024-024-1/1	SB-CZ-SS-2219-SD	10/16/2007	1.17	100
S 710114-025-025-1/1	SB-CZ-SS-2220-SD	10/16/2007	1.15	100
S 710114-026-026-1/1	SB-CZ-SS-2221-SD	10/16/2007	1.13	100
S 710114-027-027-1/1	SB-CZ-SS-2222-SD	10/16/2007	1.21	100
S 710114-028-028-1/1	SB-CZ-SS-2223-SD	10/16/2007	1.15	100
SD710114-020-020-1/1	SB-CZ-SS-2215-SD MSD	10/16/2007	1.24	100

GPL Laboratories, LLLP

Preparation Log

Project: 710114 Instrument: P3050

Prep Method: Batch Number: 100991

Lab Sample ID	Client ID	Preparation Date	Initial Weight (grams)	Final Volume (ml)
BLK100991	BLK100991	10/17/2007	1.00	100
BKS100991	BKS100991	10/17/2007	1.00	100
S 710114-043-043-1/1	SB-CZ-SS-2191-SD	10/17/2007	1.21	100
S 710114-044-044-1/1	SB-CZ-SS-2192-SD	10/17/2007	1.16	100
S 710114-045-045-1/1	SB-CZ-SS-2193-SD	10/17/2007	1.19	100
S 710114-046-046-1/1	SB-CZ-SS-2194-SD	10/17/2007	1.21	100
S 710114-047-047-1/1	SB-CZ-SS-2195-SD	10/17/2007	1.11	100
S 710114-048-048-1/1	SB-CZ-SS-2196-SD	10/17/2007	1.15	100
S 710114-049-049-1/1	SB-CZ-SS-2197-SD	10/17/2007	1.21	100
S 710114-050-050-1/1	SB-CZ-SS-2198-SD	10/17/2007	1.10	100
S 710114-051-051-1/1	SB-CZ-SS-2199-SD	10/17/2007	1.15	100
S 710114-052-052-1/1	SB-CZ-SS-2200-SD	10/17/2007	1.26	100
S 710114-053-053-1/1	SB-CZ-SS-2201-SD	10/17/2007	1.17	100
S 710114-054-054-1/1	SB-CZ-SS-2202-SD	10/17/2007	1.11	100
S 710114-040-040-1/1	SB-CZ-SS-2202-ST	10/17/2007	1.10	100
SP710114-040-040-1/1	SB-CZ-SS-2202-ST MS	10/17/2007	1.14	100
S 710114-055-055-1/1	SB-CZ-SS-2203-SD	10/17/2007	1.20	100
S 710114-041-041-1/1	SB-CZ-SS-2203-ST	10/17/2007	1.21	100
S 710114-056-056-1/1	SB-CZ-SS-2204-SD	10/17/2007	1.21	100
S 710114-042-042-1/1	SB-CZ-SS-2204-ST	10/17/2007	1.27	100
S 710114-057-057-1/1	SB-CZ-SS-2205-ST	10/17/2007	1.20	100
S 710114-058-058-1/1	SB-CZ-SS-2206-ST	10/17/2007	1.17	100
S 710114-059-059-1/1	SB-CZ-SS-2207-ST	10/17/2007	1.20	100
SD710114-040-040-1/1	SB-CZ-SS-2202-ST MSD	10/17/2007	1.19	100

GPL Laboratories, LLLP

Preparation Log

Project: 710114 Instrument: P3050

Prep Method: Batch Number: 100994

Lab Sample ID	Client ID	Preparation Date	Initial Weight (grams)	Final Volume (ml)
BLK100994	BLK100994	10/17/2007	1.00	100
BKS100994	BKS100994	10/17/2007	1.00	100
S 710114-062-062-1/1	SB-CZ-SS-2205-SD	10/17/2007	1.11	100
S 710114-063-063-1/1	SB-CZ-SS-2206-SD	10/17/2007	1.17	100
S 710114-064-064-1/1	SB-CZ-SS-2207-SD	10/17/2007	1.13	100
S 710114-065-065-1/1	SB-CZ-SS-2208-SD	10/17/2007	1.15	100
S 710114-060-060-1/1	SB-CZ-SS-2208-ST	10/17/2007	1.21	100
SP710114-060-060-1/1	SB-CZ-SS-2208-ST MS	10/17/2007	1.24	100
S 710114-066-066-1/1	SB-CZ-SS-2209-SD	10/17/2007	1.25	100
S 710114-061-061-1/1	SB-CZ-SS-2209-ST	10/17/2007	1.26	100
SD710114-060-060-1/1	SB-CZ-SS-2208-ST MSD	10/17/2007	1.28	100

Metals Preparation & Sample Description Log

Prep: 200.7 / 3005A / 3020A / (3050B) 3010A/ ILC03.1 / ILM04.1 / ILM05.3 / ILM05.4

Date: 10-16-2007 Batch No.: 202-05

Analyst: J.S.S Comments: MOD BLOCK DIGESTION (SOIL)

Reviewed by: RA Date: 10-22-07 Spike Witness: MM Pep. Seq: 100908

	GPL Work Order No.	Sample	Frac	Size mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
							R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.				
1	BLK	05		1.00	100	S				Clear	—
2	BKS	05		1.00							—
3	710114	001	001-¼	1.12		Soil	Brown	Yellow	Medium		—
4		MS		1.16							
5		MSD	✓	1.18							
6		002	002-¼	1.22							
7		003	003-¼	1.13							
8		004	004-¼	1.24							
9		005	005-¼	1.15							
10		006	006-¼	1.21							
11		007	007-¼	1.20							
12		008	008-¼	1.18							
13		009	009-¼	1.23							
14		010	010-¼	1.14							
15		011	011-¼	1.20							
16		012	012-¼	1.15							
17		013	013-¼	1.23							
18		014	014-¼	1.18							
19		015	015-¼	1.22							
20		016	016-¼	1.22							
21		017	017-¼	1.20							
22		018	018-¼	1.13							
23	✓	019	019-¼	1.22							
24	710117	001	001-¼	1.33	✓	✓	Grey	✓	D.S.S-10/16-2007		✓

LCS ID/ Amt. Added (ml,g): 0.2 ml (h0827 h0828 h0829) HNO3(1+1) ID: GP-057-164-01

Spiking ID / Amt. Added (ml): 0.2 ml (h0825 h0828 h0829) HNO3(conc) ID: GP-129-11-11

10 ml 1:1 HNO3, 10 ml HNO3 conc, 3 ml H2O2, 10 ml HCl conc HCl(conc) ID: GP-129-11-07

Temperature C: 94°C HCl(1+1) ID: —

Peroxide ID: GP-129-10-12

Metals Preparation & Sample Description Log

Prep: 200.7 / 3005A / 3020A / (3050B) / 3010A/ ILC03.1 / ILM04.1 / ILM05.3 / ILM05.4

Date: 10-16-2007 Batch No.: 202-07

Analyst: D-S-S Comments: MED BLOCK DIGESTION (SOIL)

Reviewed by: RA Date: 10-22-07 Spike Witness: Pep. Seq: 100964

GPL Work Order No.	Sample	Frac	Size mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
						R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.				
1 BLK	07		1.00	100	S				Clear	—
2 BKS	07		1.00						"	—
3 710114	020	020-1/4	1.14		SOIL	Brown	Yellow	Med		—
4	MS		1.20							
5	MSD	"	1.24							
6	021	021-1/4	1.17							
7	022	022-1/4	1.15							
8	023	023-1/4	1.14							
9	024	024-1/4	1.17							
10	025	025-1/4	1.15							
11	026	026-1/4	1.13							
12	027	027-1/4	1.21							
13	028	028-1/4	1.15							
14	029	029-1/4	1.28							
15	030	030-1/4	1.21							
16	031	031-1/4	1.16							
17	032	032-1/4	1.22							
18	033	033-1/4	1.17							
19	034	034-1/4	1.26							
20	035	035-1/4	1.15							
21	036	036-1/4	1.22							
22	037	037-1/4	1.18							
23	038	038-1/4	1.14							
24	039	039-1/4	1.18					D-S-S	10-14-2007	

LCS ID/ Amt. Added (ml,g): 0.2 ml (H0827 H0828 H0829) HNO3(1+1) ID: GP-057-164-01

Spiking ID / Amt. Added (ml): 0.2 ml (H0827 H0828 H0829) HNO3(conc) ID: GP-129-11-11

10 ml 1:1 HNO_3, 10 ml HNO_3 CHC 3 ml' H_2O_2, 10 ml HCl CHC HCl(conc) ID: GP-129-11-07

Temperature C: 95° C HCl(1+1) ID: —

Peroxide ID: GP-129-10-12

Metals Preparation & Sample Description Log

Prep: 200.7 / 3005A / 3020A / 3050B / 3010A/ ILC03.1 / ILM04.1 / ILM05.3 / ILM05.4

Date: 10-17-07 Batch No.: 202009

Analyst: DSI Comments: MOD BLOCK DIGESTION(Soil)

Reviewed by: RA Date: 10-24-07 Spike Witness: M.M Pep. Seq: 100991

	GPL Work Order No.	Sample	Frac	Size mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before (R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.)	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	009		1.00	100	S				Clr	—
2	BKS	009		1.00							—
3	710114	040	-040	1.10		Soil	Brown	Yellow	Medium		—
4		MS		1.14							
5		MSD	✓	1.19							
6		041	-041	1.21							
7		042	-042	1.27							
8		043	-043	1.21							
9		044	-044	1.16							
10		045	-045	1.19							
11		046	-046	1.21							
12		047	-047	1.11							
13		048	-048	1.15							
14		049	-049	1.21							
15		050	-050	1.10							
16		051	-051	1.15							
17		052	-052	1.26							
18		053	-053	1.17							
19		054	-054	1.11							
20		055	-055	1.20							
21		056	-056	1.21							
22		057	-057	1.20							
23		058	-058	1.17							
24	✓	059	-059	1.20	✓	✓	✓	✓	✓	✓	✓

LCS ID/ Amt. Added (ml ,g): 0.2 ml / 40822, 40828, 40829	HNO3(1+1) ID: GP-057-164-01
Spiking ID / Amt. Added (ml): 0.2 ml; 40822, 40828, 40829	HNO3(conc) ID: GP-125-11-11
10 ml 1:1 HNO_3, 10 ml HNO_3, 2 ml HCl, 7 ml H_2O_2, 10 ml HCl (HC)	HCl(conc) ID: GP-125-11-07
Temperature C: 94°C	HCl(1+1) ID: —
	Peroxide ID: GP-125-14-12

Metals Preparation & Sample Description Log

Prep: 200.7 / 3005A / 3020A / (3050B) / 3010A/ ILC03.1 / ILM04.1 / ILM05.3 / ILM05.4

Date: 10-17-07 Batch No.: 202610

Analyst: MD Comments: MOD BLOCK DIGESTION (Cal,

Reviewed by: RA Date: 10-24-07 Spike Witness: MD Pep. Seq: 100994 / 100998

	GPL Work Order No.	Sample	Frac	Size mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	010		1.00	100	S				Clr	—
2	BKS	010		1.00							—
3	710114	060	-060-	1.21		Soil	Brown	Yellow	Medm		—
4		MS		1.24							
5		MSD		1.28							
6		061	-061-	1.26							
7		062	-062-	1.11							
8		063	-063-	1.17							
9		064	-064-	1.13							
10		065	-065-	1.15							
11		066	-066-	1.25							
12	710115	001	001	1.13			Grey				
13		MS		1.18							
14		MD		1.22							
15	710119	001	-001-	1.20			Brown				
16		002	-002-	1.16							
17		003	-003-	1.17							
18		004	-004-	1.17							
19		005	-005-	1.21							
20		006	-006-	1.15	N	S	B	Y	M	N	M
21											
22											
23											
24											

10-17-2007

LCS ID/ Amt. Added (ml,g): 0.2 ml (40827, 40828, 40829) HNO3(1+1) ID: GP-057-164-01

Spiking ID / Amt. Added (ml): 0.2 ml 40827, 40828, 40829) HNO3(conc) ID: GP-129-11-11

10 ml 1:1 HNO3, 10 ml HNO3 CHC 3 ml H2O, 10 ml HCl CM HCl(cont) ID: GP-129-11-07

Temperature C: 94°C HCl(1+1) ID: —

Peroxide ID: GP-129-10-12

SOIL PERMITS

Soil Permit

Permit Number: S-76792

UNITED STATES DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

Plant Protection and Quarantine

Issued To:

SC&A, Inc., Southeastern Environmental Laboratory
(Cynthia White)
1000 Monticello Court
Montgomery, Alabama 36117

TELEPHONE: (334) 272-2234

Under the authority of the Federal Plant Pest Act of May 23, 1957, permission is hereby granted to the facility/individual named above subject to the following conditions:

1. Valid for shipments of soil not heat treated at the port of entry, only if a Compliance Agreement (PPQ Form 519) has been completed and signed. Compliance Agreements and Soil Permits are non-transferable. If you hold a Soil Permit and you leave your present employer or Company, you must notify your local USDA office promptly. A copy of this permit must accompany all shipments.
2. To be shipped in sturdy, leakproof, containers.
3. To be released without treatment at the port of entry to permittee or authorized user.
4. To be used only for analysis and only in the facility of the permittee at SC&A, Inc., Southeastern Environmental Laboratory, located in Montgomery, Alabama..
5. No use of soil for growing purposes is authorized, including the isolation or culture of organisms imported in soil.
6. All unconsumed soil, containers, and effluent is to be autoclaved, incinerated, or heat treated by the permittee at the conclusion of the project as approved and prescribed by PPQ.
7. This permit authorizes shipments from all foreign sources, including Guam, Hawaii, Puerto Rico, and the U.S. Virgin Islands through any U.S. port of entry.

SEPTEMBER 30, 2010
Expiration Date

Lia Stewart
Approving Official LIA STEWART

WARNING: Any alteration, forgery, or unauthorized use of this Federal form is subject to civil penalties of up to $250,000 (7 U.S.C. s 7734(b)) or punishable by a fine of not more than $10,000, or imprisonment of not more than 5 years, or both (18 U.S.C. s 1001).

PPQ FORM 525B (8/94)

PART 1 - PERMITTEE

Soil Permit

Permit Number: S-73685

UNITED STATES DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

Plant Protection and Quarantine

Issued To: GPL Laboratories
(Yemane Yohannes)
7210-A Corporate Court
Frederick, Maryland 21703-8386

TELEPHONE: (301) 694-5310

Under the authority of the Federal Plant Pest Act of May 23, 1957, permission is hereby granted to the facility/individual named above subject to the following conditions:

1. Valid for shipments of soil not heat treated at the port of entry, only if a Compliance Agreement (PPQ Form 519) has been completed and signed. Compliance Agreements and Soil Permits are non-transferable. If you hold a Soil Permit and you leave your present employer or Company, you must notify your local USDA office promptly. A copy of this permit must accompany all shipments.
2. To be shipped in sturdy, leakproof, containers.
3. To be released without treatment at the port of entry to permittee or authorized user.
4. To be used only for analysis and only in the facility of the permittee at GPL Laboratories, located in Frederick, Maryland.
5. No use of soil for growing purposes is authorized, including the isolation or culture of organisms imported in soil.
6. All unconsumed soil, containers, and effluent is to be autoclaved, incinerated, or heat treated by the permittee at the conclusion of the project as approved and prescribed by PPQ.
7. This permit authorizes shipments from all foreign sources, including Guam, Hawaii, Puerto Rico, and the U.S. Virgin Islands through any U.S. port of entry.

SEPTEMBER 30, 2010
Expiration Date

Lia Stewart
Approving Official LIA STEWART

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PPQ FORM 525B (8/94)

PART 1 - PERMITTEE

Nuclide	Nuclide	Half	Key	Energy	
K-40	NATURAL	4.03E+16S	*	1460.80	10.66
CO-60	GAMMA	1.66E+08S	*	1173.23	100.00
				1332.51	100.00
RH-101	ACTIVATION	1.04E+08S	*	198.00	73.00
SB-125	ACTIVATION	8.62E+07S	*	427.87	29.80
CS-137	GAMMA	9.47E+08S	*	661.66	85.10
EU-155	ACTIVATION	1.57E+08S	*	105.31	21.20
TL-208	GAMMA	4.43E+17S		277.36	6.31
				510.77	22.60
			*	583.19	84.50
				763.13	1.81
				860.56	12.42
PO-209	GAMMA	3.22E+09S	*	896.60	0.47
BI-211	GAMMA	2.22E+16S	*	831.80	3.30
BI-212	GAMMA	4.43E+17S	*	727.33	11.80
				785.37	1.10
				1620.50	1.49
PB-212	GAMMA	4.43E+17S		74.81	10.40
				77.11	17.50
				87.30	7.81
			*	238.63	43.30
				300.09	3.28
BI-214	GAMMA	5.05E+10S	*	609.31	46.10
				768.36	4.94
				806.17	1.22
				934.06	3.03
				1120.29	15.10
				1155.19	1.63
				1238.11	5.79
				1280.96	1.43
				1377.67	4.00
				1401.50	1.27
				1407.98	2.15
				1509.23	2.11
				1729.60	2.92
				1764.49	15.40
PB-214	GAMMA	5.05E+10S		74.81	6.44
				77.11	10.80
				87.30	4.84
				242.00	7.43
				295.22	19.30
			*	351.93	37.60
RA-223	GAMMA	1.04E+12S	*	269.46	13.70
AC-228	NATURAL	4.43E+17S		129.07	2.42
				209.25	3.89
				270.25	3.46
				338.32	11.27
				409.46	1.92
				463.00	4.40
				794.95	4.25
			*	911.20	25.80

Nuclide	Nuclide	Half	Key	Energy	
				964.77	4.99
				968.97	15.80
				1588.20	3.22
PA-233	ACTIVATION	6.75E+13S	*	312.17	38.60
PA-234M	NATURAL	1.41E+17S	*	1001.03	0.84
TH-234	NATURAL	1.41E+17S		63.29	4.80
			*	92.58	5.41
U-235	GAMMA	2.22E+16S	*	143.76	10.96
NP-236	ACTIVATION	4.89E+12S	*	98.44	38.00
NP-237	ALPHA	6.75E+13S	*	86.48	12.40
NP-239	ACTIVATION	2.33E+11S	*	228.18	10.76
AM-241	ALPHA	1.36E+10S	*	59.54	35.90
AM-243	ALPHA	2.33E+11S	*	74.66	68.20
CM-243	ALPHA	8.99E+08S	*	103.76	23.00
AM-246	BETA	2.18E+11S	*	1078.86	27.80
CF-249	ALPHA	1.11E+10S	*	387.59	66.00

STANDARDS SUMMARY

S-142

ANALYTICS

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318 · U.S.A.

Phone (404) 352-8677
Fax (404) 352-2837

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

67834-301

400 mL Sand in 500 mL Plastic Container

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solution sources. The Am-241 was calibrated by 4 pi alpha liquid scintillation counting. All other radionuclides were calibrated using a germanium gamma spectrometer system. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Analytics maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Rev. 1, February, 1979.

Calibration date: January 1, 2004 12:00 EST

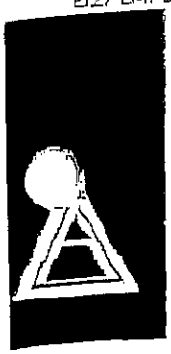
ISOTOPE	GAMMA-RAY ENERGY	HALF-LIFE		GAMMA-RAYS PER SECOND	TOTAL UNCERTAINTY %
Am-241	59.5	432	y	658.4	3.0
Cd-109	88	462.6	d	934.5	3.3
Co-57	122	271.79	d	543.4	3.0
Ce-139	166	137.6	d	734.4	2.8
Hg-203	279	46.61	d	1645	2.7
Sn-113	392	115.1	d	959.6	2.6
Cs-137	662	30.07	y	632.3	3.0
Y-88	898	106.6	d	2461	2.6
Co-60	1173	5.2714	y	1199	2.7
Co-60	1332	5.2714	y	1208	2.6
Y-88	1836	106.6	d	2571	2.6

640 grams of sand.
P O NUMBER A01488, Item 1

SOURCE PREPARED BY: M. Dimitrova
M. Dimitrova, Radiochemist

Q A APPROVED: 4-5-04

This standard will expire one year after the calibration date.



ANALYTICS

SH2-150

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318-U.S.A.

Phone (404) 352-8677
Fax (404) 352-2837
email: analytics@mindspring.com
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February 4, 2005

Richard Blanchard, Ph.D.
Quality Assurance Manager
Sanford Cohen & Associates
1000 Monticello Court
Montgomery, Al. 36117

Subject: Expiration Date of Radioactivity Standards

Dear Dr. Blanchard;

The following is provided in response to your request for information regarding the use of Analytics standards beyond the expiration date.

The expiration date is based on the half-life of the nuclide and the expected stability of the matrix. The longest expiration date is generally 3 years from the date of calibration for long-lived radionuclides such as Cs-137 in a polyester resin matrix. We do not have adequate information about radiation damage of the resin over longer periods of time and cannot provide longer expiration dates.

The expiration date for a Mixed Gamma Standard is one year from the calibration date. This is considered the maximum useful life for such a standard to perform efficiency calibrations over the entire energy range since Hg-203 and Y-88 would have decayed by more than a factor of eight after one year. These sources can be used beyond the expiration date for efficiency and energy calibrations if they have been properly handled and measurements show that there have been no changes in the source geometry. Such a source would be considered NIST traceable for those radionuclides that can be corrected for decay without adding a significant uncertainty to the original calibration.

You specifically asked about standards labeled SRM 67834-301 through SRM 67842-302. These standards are all sealed and if they have been handled properly should still be fine for calibrating your detector systems. You do need to be sure and count for sufficient time to get good statistics for the short-lived gamma-ray emitters, and propagate the uncertainties for decay corrections. The expiration date for the referenced standards can be extended to April 1, 2005 subject to the above considerations.

Sincerely yours,

Daniel M. Montgomery

Daniel M. Montgomery, Ph.D.
Quality Assurance Manager

S142

MIXED GAMMA IN 400mL SAND IN 500mL PLASTIC CONTAINER

RECEIVED: 04-07-2004

SUPPLIER: ANALYTICS

SOURCE ID: 67834-301

ACTIVITY: 1.01 μCi WEIGHT: 640 g

CALIB. DATE: 01-01-2004 12:00 EST

EXP. DATE: ~~01-01-2005~~ 4-1-05
2-5-05
CW

see explanation attached to Certificate

VERIFICATION OF
STANDARD CONCENTRATION

Standard I.D. No. 5142 Isotope Mixed Gamma (^{60}Co) Date 6-08-07

Certificate Concentration of Standard as Diluted 32,527 ~~dpm/ml~~ pCi/sample

Measurement Results

Measurement (n)	Concentration (x) (pCi/sample)	Difference $(\Delta x_n)^a$	$(\Delta x_n)^2$
1	32,540	520	270,400
2	31,800	220	48,400
3	31,720	290	84,100
4			
5			
Mean	32,020 pCi/sample		Σ 402,900

[a] $\Delta x_n = (\bar{x} - x_n)$.

$$\sigma = \sqrt{\frac{\sum (\Delta x_n)^2}{n-1}}$$

Mean Concentration = 32,020 ~~dpm/ml~~ pCi/sample) 2.8%

Two Standard Deviations (2σ) = 900 ~~dpm/ml~~ pCi/sample

Upper Limit ($\bar{x} + 2\sigma$) 32,920 pCi Lower Limit ($\bar{x} - 2\sigma$) 31,120 pCi

Concentration Verified ✓ not Verified _____

Comments: _____

Signature R. Blanchard

VERIFICATION OF
STANDARD CONCENTRATION

Standard I.D. No. 5147 Isotope Mixed Gamma (109Cd) Date 6-08-07

Certificate Concentration of Standard as Diluted 678,945 ~~dpm~~ pCi/~~ml~~ sample

Measurement Results

Measurement (n)	Concentration (x) (pCi/sample)	Difference $(\Delta x_n)^a$	$(\Delta x_n)^2$
1	679,900	21,000	441,000,000
2	725,500	24,600	605,160,000
3	697,300	3,600	12,960,000
4			
5			
Mean	700,900 pCi/sample		Σ 1,059,120,000

[a] $\Delta x_n = (\bar{x} - x_n)$.

$$\sigma = \sqrt{\frac{\sum (\Delta x_n)^2}{n-1}}$$

Mean Concentration = 700,900 ~~dpm~~ pCi/~~ml~~ sample) 6.6%

Two Standard Deviations (2σ) = 46,000 ~~dpm~~ pCi/~~ml~~ sample

Upper Limit ($\bar{x} + 2\sigma$) 746,900 pCi Lower Limit ($\bar{x} - 2\sigma$) 654,900 pCi

Concentration Verified ✓ not Verified _____

Comments: _____

Signature R. Blanco

VERIFICATION OF STANDARD CONCENTRATION

Standard I.D. No. 5142 Isotope Mixed Gamma (^{137}Cs) Date 6-08-07

Certificate Concentration of Standard as Diluted 20,081 ~~dpm~~ pCi/~~ml~~ Sample

Measurement Results

Measurement (n)	Concentration (x) (pCi/Sample)	Difference $(\Delta x_n)^a$	$(\Delta x_n)^2$
1	21,880	850	722,500
2	21,200	170	28,900
3	20,000	1030	1,060,900
4			
5			
Mean	21,030 pCi/Sample		Σ 1,812,200

[a] $\Delta x_n = (\bar{x} - x_n)$.

$$\sigma = \sqrt{\frac{\sum (\Delta x_n)^2}{n-1}}$$

Mean Concentration = 21,030 ~~dpm~~ pCi/~~ml~~ Sample) 9.0%

Two Standard Deviations (2σ) = 1,900 ~~dpm~~ pCi/~~ml~~ Sample

Upper Limit ($\bar{x} + 2\sigma$) 22,930 pCi Lower Limit ($\bar{x} - 2\sigma$) 19,130 pCi

Concentration Verified ✓ not Verified _____

Comments: _____

Signature R. Blanchard

COUNTING RAW DATA

SC&A, Inc.
Southeastern Environmental Laboratory

BENCH SHEET

Method:	Gamma Spec (DOE 4.5.2.3)	Project Name:	Cabrera Services-Oahu, HI
Analysis Type:	Gamma (DOE 21 day ing	Project Location:	
Matrix:	Soil	Project Number:	FOAH2/L
Date Received:	9/27/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7933 7936			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7933-PB		9/27/2007 8:45:00 AM	
SCAQC	7933-LD1 OH207-7933-01	SB-CZ-SS-2191-ST	9/26/2007	
SCAQC	7933-LC1		9/27/2007 8:45:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7933-01	SB-CZ-SS-2191-ST	9/26/2007	
OH207	7933-02	SB-CZ-SS-2192-ST	9/26/2007	
OH207	7933-03	SB-CZ-SS-2193-ST	9/26/2007	
OH207	7933-04	SB-CZ-SS-2194-ST	9/26/2007	
OH207	7933-05	SB-CZ-SS-2195-ST	9/26/2007	
OH207	7933-06	SB-CZ-SS-2196-ST	9/26/2007	
OH207	7933-07	SB-CZ-SS-2197-ST	9/26/2007	
OH207	7933-08	SB-CZ-SS-2198-ST	9/26/2007	
OH207	7933-09	SB-CZ-SS-2199-ST	9/26/2007	
OH207	7933-10	SB-CZ-SS-2200-ST	9/26/2007	
OH207	7933-11	SB-CZ-SS-2201-ST	9/26/2007	
OH207	7933-12	SB-CZ-SS-2202-ST	9/26/2007	
OH207	7933-13	SB-CZ-SS-2203-ST	9/26/2007	
OH207	7933-14	SB-CZ-SS-2204-ST	9/26/2007	

Radiochemistry Reviewer 11/19/07 Date

QA Reviewer 11/19/2007 Date

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-14-07 1758 G1K	180	OH207	7930	14	–	9/25/07	SB-CZ-SS-2154-ST	SOIL	522.7 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-14-07 1759 G2IC	180	SCAQC	7933	PB1	–	9/27/07 0845	PREP BLK	LIQUID	400g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-15-07 1024 G1IKw	60	↓	↓	LC1	–	↓	CTRL SAMP S-142	SOIL	640g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-14-07 1801 G3K	180	↓	↓	LD1	–	9/26/07	Dup 7933-01	↓	447.1 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-15-07 0916 G2IKw	↓	OH207	↓	01	–	↓	SB-CZ-SS-2191-ST	↓	447.1 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-15-07 0917 G3 IKw	↓	↓	↓	02	–	↓	2192-ST	↓	456.0 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-15-07 1219 G1 Kw	↓	↓	↓	03	–	↓	2193-ST	↓	394.3 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-16-07 1220 G2Kw	↓	↓	↓	04	–	↓	2194-ST	↓	459.9 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-15-07 Wk 1221 G3	↓	↓	↓	05	–	↓	2195-ST	↓	563.1 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-16-07 1527 G1 M.S.	↓	↓	↓	06	–	↓	2196-ST	↓	505.7 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐

amp#1 = G1
amp#2 = G2

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SC&A - Southeastern Environmental Laboratory
SCA-Form 012 Rev. 1

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
15:30 11-15-07 Y-2-Mid.	180	OH207	7933	07	–	9/26/07	SB-CZ-SS-2197-ST	SOIL	511.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-15-07 1834 G1 1Ch				08	–		2198-ST		469.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-15-07 1836 G2 1Ch				09	–		2199-ST		581.5 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-15-07 1837 G3 1Ch				10	–		2200-ST		550.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-15-07 2149 G3 8h				11	–		2201-ST		476.5 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-16-07 0859 G1 1Ch				12	–		2202-ST		404.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-16-07 0900 G2 1Ch 0900				13	–		2203-ST		532.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-16-07 0901 G3 1Ch				14	–		2204-ST		550.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 1843 G3 4h	500	SCAQC	8051	PB1	–	11-1-07 0900	PREP BLK	LIQUID	1 Liter	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☑ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-15-07 1646 G3 1h	60			LC1	–		LRTL SAMP S-146	LIQUID		400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☑ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

ammal = G1
amm2 = G2

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 14-NOV-2007 20:59:57

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7933PB1_GAMMA2_400MLSA_17137.CNF

---- Sample Information ----

Sample ID	: SCAQC-7933-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17137		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 14-NOV-2007 17:59:39
Decay time	: 48 09:14:39.30	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.57

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/19/2007

Post-NID Peak Search Report
***** No peaks found *****

Interference Report

No interference correction performed

Unidentified Energy Lines

None

Flags: "T" = Tentatively associated

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	-6.201E-02		1.356E-01	2.822E-01	1.816E-02	-0.220
CO-60	-3.237E-04		8.271E-03	1.428E-02	8.304E-04	-0.023
RH-101	-4.846E-03		1.144E-02	1.835E-02	2.864E-03	-0.264
SB-125	1.207E-02		2.883E-02	5.193E-02	4.257E-03	0.232
CS-137	2.644E-04		9.705E-03	1.790E-02	2.036E-03	0.015
EU-155	-1.374E-02		3.329E-02	5.548E-02	5.195E-03	-0.248
TL-208	5.675E-03		1.056E-02	2.078E-02	2.163E-03	0.273
PO-209	-1.453E-01		1.850E+00	3.360E+00	6.442E-01	-0.043
BI-211	-1.122E-01		2.795E-01	4.839E-01	4.737E-02	-0.232
BI-212	7.663E-02		6.966E-02	1.430E-01	1.564E-02	0.536
PB-212	-5.877E-04		1.839E-02	3.234E-02	2.471E-03	-0.018
BI-214	-5.339E-03		2.390E-02	4.385E-02	4.669E-03	-0.122
PB-214	1.084E-02		2.388E-02	4.237E-02	3.249E-03	0.256
RA-223	-1.846E-02		4.737E-02	8.174E-02	7.272E-03	-0.226
AC-228	-2.711E-02		4.501E-02	7.658E-02	6.655E-03	-0.354
PA-233	-1.821E-03		1.975E-02	3.445E-02	2.775E-03	-0.053
PA-234M	2.767E-01		1.166E+00	2.221E+00	1.734E-01	0.125
TH-234	9.635E-02		1.849E-01	3.313E-01	3.313E-02	0.291
U-235	3.074E-02		6.161E-02	1.064E-01	7.764E-03	0.289
NP-236	1.671E-02		2.027E-02	3.611E-02	3.589E-03	0.463
NP-237	1.174E-02		7.245E-02	1.229E-01	1.544E-02	0.096
NP-239	8.943E-03		6.347E-02	1.133E-01	1.529E-02	0.079
AM-241	-2.411E-02		4.747E-02	8.067E-02	5.291E-03	-0.299
AM-243	5.498E-03		1.606E-02	2.826E-02	5.634E-03	0.195
CM-243	1.520E-02		3.002E-02	5.285E-02	5.714E-03	0.287
AM-246	5.646E-02		3.522E-02	7.639E-02	9.771E-03	0.739
CF-249	-9.141E-05		1.163E-02	2.037E-02	1.952E-03	-0.004

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 15-NOV-2007 11:25:06

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7933LC1_GAMMA1_400MLSA_17144.CNF

---- Sample Information ----

Sample ID	: SCAQC-7933-LC1		
Sample Title	: CTRL SAMP S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17144		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 15-NOV-2007 10:24:35
Decay time	: 49 01:39:35.47	% dead time	: 0.4%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:14.94

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T McMorris Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	59.65	20366	6462	1.00	118.67	114	10	2.1		AM-241
0	88.10	9676	5134	1.02	175.64	170	12	3.6		
0	122.12	1689	3452	1.03	243.77	239	10	13.9		
0	136.37	237	2078	1.21	272.31	270	6	62.3		
0	238.60*	409	1776	1.31	477.01	474	6	34.2		
0	351.53*	150	1230	0.64	703.12	700	6	75.7		
0	661.34	27195	1463	1.48	1323.41	1315	15	1.4		CS-137
0	1172.60	21178	807	1.90	2346.90	2339	16	1.5		CO-60
0	1331.77	19535	258	1.99	2665.51	2656	18	1.5		CO-60
0	1460.06*	60	38	1.71	2922.29	2915	14	51.8		K-40

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	88.10	9676	5134	1.02	175.64	170	12	2.69E+00	3.6	2.26E+00	T
0	122.12	1689	3452	1.03	243.77	239	10	4.69E-01	13.9	3.05E+00	
0	136.37	237	2078	1.21	272.31	270	6	6.58E-02	62.3	3.15E+00	
0	238.60	409	1776	1.31	477.01	474	6	1.14E-01	34.2	2.66E+00	T
0	351.53	150	1230	0.64	703.12	700	6	4.18E-02	75.7	1.99E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	9.271E-01	4.842E-01	6.333E-01	4.322E-02	1.464
CO-60	3.071E+01	1.930E+00	9.550E-02	6.232E-03	321.541
CS-137	3.100E+01	3.358E+00	1.616E-01	1.736E-02	191.880
AM-241	7.397E+01	6.075E+00	1.028E+00	8.171E-02	71.975

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
RH-101	6.508E-03		7.779E-02	1.261E-01	1.956E-02	0.052
SB-125	-1.542E-01		2.721E-01	4.478E-01	3.672E-02	-0.344
EU-155	-5.888E-02		2.568E-01	4.276E-01	4.246E-02	-0.138
TL-208	1.661E-01		9.738E-02	1.632E-01	1.638E-02	1.018
PO-209	6.205E+00		2.436E+01	4.091E+01	7.323E+00	0.152
BI-211	-4.312E-01		3.079E+00	5.170E+00	3.767E-01	-0.083
BI-212	-3.503E-01		7.117E-01	1.198E+00	1.152E-01	-0.292
PB-212	4.166E-01	+	1.460E-01	2.391E-01	1.845E-02	1.743
BI-214	3.676E-01		1.863E-01	3.114E-01	3.172E-02	1.180
PB-214	2.358E-01	+	1.794E-01	3.075E-01	2.427E-02	0.767
RA-223	7.807E-02		4.150E-01	7.116E-01	6.548E-02	0.110
AC-228	4.144E-01		4.604E-01	7.821E-01	4.322E-02	0.530
PA-233	1.485E-01		1.561E-01	2.683E-01	2.253E-02	0.553
PA-234M	7.135E+00		1.381E+01	2.320E+01	1.334E+00	0.308
TH-234	6.726E-01		1.263E+00	1.928E+00	2.249E-01	0.349
U-235	5.548E-02		4.471E-01	7.378E-01	5.151E-02	0.075
NP-236	1.130E-01		1.478E-01	2.499E-01	2.746E-02	0.452
NP-237	1.516E+01		2.329E+00	1.562E+00	2.259E-01	9.705
NP-239	-8.258E-02		5.624E-01	8.997E-01	1.214E-01	-0.092
AM-243	-1.024E-01		1.462E-01	2.426E-01	5.090E-02	-0.422
CM-243	1.894E-01		2.358E-01	3.976E-01	4.531E-02	0.476
AM-246	-2.265E-01		4.317E-01	7.024E-01	8.644E-02	-0.323
CF-249	4.385E-03		1.050E-01	1.760E-01	1.698E-02	0.025

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 14-NOV-2007 21:01:30

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7933LD1_GAMMA3_400MLSA_17138.CNF

---- Sample Information ----

Sample ID : SCAQC-7933-LD1
Sample Title : DUP 7933-01
Sample Quantity : 4.47100E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17138

---- Sample Decay/Count Information ----

Collection Date : 26-SEP-2007 00:00:00 Acquisition date : 14-NOV-2007 18:01:08
Decay time : 49 18:01:08.96 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:00.92

---- Detector Parameters ----

Energy cal. time : 30-OCT-2006 16:06:41 Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA3 Counting geometry: 400 ml sand
Effic. cal. time : 7-FEB-2007 13:40:24. Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.85663E+00 a3=8.12782E-01 a4=8.53513E-02
a5=-4.88423E-02 a6=-7.49502E-03 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.33*	112	432	1.28	102.99	97	12	79.9		
0	63.14*	156	738	1.61	140.28	135	11	72.9		
2	74.87*	682	874	1.59	166.27	160	17	19.9	3.73E+00	AM-243
										PB-214
										PB-212
2	77.19*	1071	789	1.46	171.40	160	17	12.0		PB-214
										PB-212
2	87.19	387	591	1.32	193.57	183	30	25.1	2.50E+00	NP-237
										PB-214
										PB-212
2	89.94	272	581	1.32	199.67	183	30	35.1		
0	128.96	66	392	1.15	286.15	283	7	103.4		AC-228
0	185.81*	305	553	1.59	412.17	406	13	35.0		
0	209.75	115	593	1.53	465.24	459	14	92.3		AC-228
3	238.74*	1472	354	1.45	529.49	521	21	7.3	1.02E+00	PB-212
3	241.62	383	369	2.04	535.88	521	21	27.5		PB-214
0	270.21	198	238	2.23	599.25	594	12	34.3		RA-223
										AC-228
0	295.28*	487	266	1.65	654.81	648	14	17.0		PB-214
0	300.64	140	215	1.47	666.70	662	12	45.3		PB-212
0	328.40	85	207	1.40	728.23	722	11	69.5		
0	338.40	308	271	1.61	750.38	744	14	25.4		AC-228
0	352.03*	807	282	1.60	780.60	771	16	11.8		PB-214
0	462.82	62	162	1.44	1026.17	1022	13	90.1		AC-228
0	510.61*	112	200	1.58	1132.08	1123	19	69.7		TL-208
0	583.17*	479	133	1.66	1292.91	1284	16	14.4		TL-208
0	609.30*	584	136	1.85	1350.81	1340	17	12.6		BI-214
0	661.96	218	138	1.50	1467.53	1461	16	28.1		CS-137
0	727.61*	72	116	2.01	1613.02	1606	12	64.9		BI-212
0	768.45	72	88	2.05	1703.54	1696	13	58.4		BI-214
0	795.17	48	61	1.91	1762.77	1758	11	69.7		AC-228
0	860.45	68	63	1.25	1907.44	1901	15	55.2		TL-208
0	911.27*	301	68	2.24	2020.06	2011	18	17.5		AC-228
1	964.66	82	46	2.21	2138.39	2132	26	40.6	1.59E+00	AC-228
1	968.96	169	46	2.02	2147.93	2132	26	22.8		AC-228
0	1120.68*	141	32	1.72	2484.15	2476	19	26.3		BI-214
0	1237.42	61	26	3.71	2742.87	2736	13	42.9		BI-214
0	1377.77	41	30	1.39	3053.88	3047	17	69.1		BI-214
0	1460.85*	373	40	2.25	3237.99	3230	16	13.2		K-40
0	1764.67*	101	23	2.51	3911.22	3902	22	31.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.33	112	432	1.28	102.99	97	12	1.04E-02	79.9	2.76E+00	
0	63.14	156	738	1.61	140.28	135	11	1.44E-02	72.9	3.33E+00	T
2	89.94	272	581	1.32	199.67	183	30	2.52E-02	35.1	3.55E+00	
0	185.81	305	553	1.59	412.17	406	13	2.82E-02	35.0	2.82E+00	
0	328.40	85	207	1.40	728.23	722	11	7.88E-03	69.5	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.506E+00	5.056E-01	2.221E-01	1.307E-02	15.790
CS-137	1.366E-01	3.959E-02	3.168E-02	2.281E-03	4.313
TL-208	2.711E-01	4.449E-02	3.030E-02	2.412E-03	8.946
BI-212	3.543E-01	2.313E-01	2.412E-01	1.750E-02	1.469
PB-212	7.917E-01	8.296E-02	4.750E-02	3.551E-03	16.666
BI-214	6.293E-01	9.252E-02	5.469E-02	4.167E-03	11.507
PB-214	6.705E-01	9.527E-02	6.027E-02	4.795E-03	11.126
RA-223	3.666E-01	1.297E-01	1.361E-01	1.205E-02	2.693
AC-228	8.140E-01	1.539E-01	1.178E-01	8.282E-03	6.910
NP-237	4.924E-01	1.351E-01	1.514E-01	1.687E-02	3.253
AM-243	1.603E-01	4.441E-02	3.041E-02	5.848E-03	5.271

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.304E-02		1.588E-02	2.593E-02	1.578E-03	-0.503
RH-101	-3.801E-03		1.787E-02	2.970E-02	4.584E-03	-0.128
SB-125	3.378E-02		4.509E-02	8.158E-02	6.745E-03	0.414
EU-155	5.182E-02		4.984E-02	8.801E-02	8.276E-03	0.589
PO-209	3.621E+00		3.319E+00	6.313E+00	1.163E+00	0.574
BI-211	-7.869E-01		5.435E-01	8.194E-01	5.901E-02	-0.960
PA-233	-3.718E-03		3.362E-02	5.616E-02	4.583E-03	-0.066
PA-234M	-2.501E-01		2.109E+00	3.735E+00	2.550E-01	-0.067
TH-234	7.790E-01		2.742E-01	4.820E-01	4.315E-02	1.616
U-235	1.236E-02		1.083E-01	1.845E-01	1.369E-02	0.067
NP-236	3.081E-02		3.335E-02	4.913E-02	4.688E-03	0.627
NP-239	8.309E-02		1.122E-01	1.940E-01	2.595E-02	0.428
AM-241	4.275E-02		3.563E-02	5.421E-02	3.431E-03	0.789
CM-243	-1.696E-02		4.540E-02	7.749E-02	8.350E-03	-0.219
AM-246	3.724E-02		5.947E-02	1.113E-01	1.405E-02	0.334
CF-249	-9.653E-03		1.962E-02	3.349E-02	3.336E-03	-0.288

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 15-NOV-2007 12:17:03

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793301_GAMMA2_400MLSAN_17142.CNF

---- Sample Information ----

Sample ID	: OH207-7933-01		
Sample Title	: SB-CZ-SS-2191-ST		
Sample Quantity	: 4.47100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17142		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 15-NOV-2007 09:16:45
Decay time	: 50 09:16:45.02	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.33

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.38*	83	626	0.90	126.45	123	8	108.8		
2	74.81	485	560	1.19	149.21	143	17	18.9	3.66E+00	AM-243
										PB-214
										PB-212
2	77.06	749	531	1.20	153.69	143	17	13.1		PB-214
										PB-212
1	87.21*	258	551	1.11	173.89	163	27	33.3	9.61E-01	NP-237
										PB-214
										PB-212
1	89.88	167	555	1.11	179.20	163	27	49.7		
0	128.91	144	518	1.08	256.93	253	8	57.2		AC-228
0	153.45	94	577	1.50	305.80	303	9	94.7		
0	186.20*	157	810	1.19	371.01	364	12	75.5		
0	209.28	152	439	1.07	416.99	413	9	52.4		AC-228
0	238.69*	1491	629	1.17	475.57	472	8	7.9		PB-212
0	241.71	234	452	1.59	481.58	480	8	35.8		PB-214
0	269.83	182	535	1.51	537.59	531	15	57.3		RA-223
										AC-228
0	277.05	114	344	1.03	551.98	548	10	63.9		TL-208
0	295.38*	554	344	1.20	588.50	583	12	16.1		PB-214
0	300.21	83	240	1.11	598.11	595	8	67.6		PB-212
0	328.05	82	288	1.36	653.60	648	11	82.9		
0	338.53*	360	239	1.28	674.48	670	10	19.6		AC-228
0	352.06*	865	281	1.24	701.44	694	12	10.4		PB-214
0	409.64	70	119	1.81	816.19	813	8	58.9		AC-228
0	463.98	134	245	4.74	924.48	914	20	60.3		AC-228
0	511.07*	176	215	2.06	1018.36	1010	15	43.2		TL-208
0	583.32*	587	146	1.37	1162.43	1155	15	12.3		TL-208
0	609.54*	644	122	1.39	1214.71	1209	14	11.0		BI-214
0	661.80	218	140	1.35	1318.92	1311	13	26.2		CS-137
0	727.37	188	81	2.14	1449.72	1441	18	26.7		BI-212
0	768.92	119	116	5.06	1532.62	1525	20	47.7		BI-214
0	786.65	24	59	1.14	1568.00	1562	9	122.3		BI-212
0	794.96	71	61	1.55	1584.59	1580	11	48.8		AC-228
0	860.28	99	54	1.96	1714.93	1709	12	35.9		TL-208
0	911.14*	349	89	1.69	1816.45	1809	16	16.3		AC-228
2	964.33	79	44	2.12	1922.63	1915	33	41.1	1.71E+00	AC-228
2	968.84*	256	32	1.89	1931.64	1915	33	15.5		AC-228
0	1120.25*	129	54	1.95	2233.98	2226	16	31.9		BI-214
0	1376.76*	31	34	2.89	2746.55	2737	15	92.0		BI-214
0	1459.81*	456	44	2.35	2912.58	2904	22	12.7		K-40
0	1587.90*	42	32	1.75	3168.74	3161	18	70.8		AC-228
1	1726.98	17	7	2.11	3447.00	3442	14	91.8	2.32E+00	
1	1728.98	20	2	2.12	3451.00	3442	14	71.6		BI-214
0	1762.83*	109	17	1.64	3518.74	3512	16	26.2		BI-214
0	1845.21	23	10	1.93	3683.65	3679	10	66.2		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	63.38	83	626	0.90	126.45	123	8	7.69E-03	****	1.34E+00	T
1	89.88	167	555	1.11	179.20	163	27	1.55E-02	49.7	2.60E+00	
0	153.45	94	577	1.50	305.80	303	9	8.68E-03	94.7	3.38E+00	
0	186.20	157	810	1.19	371.01	364	12	1.46E-02	75.5	3.21E+00	
0	328.05	82	288	1.36	653.60	648	11	7.63E-03	82.9	2.20E+00	
1	1726.98	17	7	2.11	3447.00	3442	14	1.60E-03	91.8	5.94E-01	
0	1845.21	23	10	1.93	3683.65	3679	10	2.13E-03	66.2	5.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.544E+00	5.060E-01	2.015E-01	1.297E-02	17.590
CS-137	1.182E-01	3.371E-02	2.674E-02	3.042E-03	4.421
TL-208	2.882E-01	4.653E-02	2.296E-02	2.390E-03	12.556
BI-212	7.923E-01	2.286E-01	1.830E-01	2.001E-02	4.329
PB-212	6.882E-01	7.542E-02	5.097E-02	3.895E-03	13.502
BI-214	6.011E-01	9.201E-02	4.899E-02	5.217E-03	12.268
PB-214	6.205E-01	8.031E-02	4.946E-02	3.792E-03	12.546
RA-223	2.887E-01	1.675E-01	1.232E-01	1.096E-02	2.343
AC-228	7.975E-01	1.475E-01	9.366E-02	8.139E-03	8.515
NP-237	4.698E-01	1.670E-01	1.896E-01	2.383E-02	2.477
AM-243	2.045E-01	5.611E-02	4.534E-02	9.037E-03	4.510

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-4.137E-03		1.413E-02	2.327E-02	1.354E-03	-0.178
RH-101	-1.153E-02		1.602E-02	2.516E-02	3.927E-03	-0.458
SB-125	7.167E-03		3.979E-02	6.838E-02	5.606E-03	0.105
EU-155	5.865E-02		5.456E-02	9.402E-02	8.803E-03	0.624
PO-209	-2.379E+00		2.819E+00	4.511E+00	8.649E-01	-0.527
BI-211	-2.015E-01		4.093E-01	6.892E-01	6.747E-02	-0.292
PA-233	-1.400E-02		2.556E-02	4.293E-02	3.458E-03	-0.326
PA-234M	-8.404E-01		1.565E+00	2.619E+00	2.044E-01	-0.321
TH-234	1.152E+00		3.124E-01	5.390E-01	5.391E-02	2.137
U-235	7.386E-02		9.605E-02	1.622E-01	1.184E-02	0.456
NP-236	1.978E-03		3.163E-02	5.319E-02	5.288E-03	0.037
NP-239	5.042E-03		9.392E-02	1.635E-01	2.207E-02	0.031
AM-241	7.925E-03		8.929E-02	1.376E-01	9.027E-03	0.058
CM-243	-1.335E-02		5.027E-02	8.339E-02	9.016E-03	-0.160
AM-246	6.146E-02		5.171E-02	9.830E-02	1.257E-02	0.625
CF-249	-1.285E-02		1.604E-02	2.615E-02	2.506E-03	-0.491

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 15-NOV-2007 12:18:19

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793302_GAMMA3_400MLSAN_17143.CNF

---- Sample Information ----

Sample ID	: OH207-7933-02		
Sample Title	: SB-CZ-SS-2192-ST		
Sample Quantity	: 4.56000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17143		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 15-NOV-2007 09:17:59
Decay time	: 50 09:17:59.02	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.96

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.43*	131	457	1.34	103.22	99	10	66.6		
0	63.40*	154	878	1.24	140.84	135	13	84.2		TH-234
3	74.94*	476	666	1.11	166.42	162	29	20.3	1.59E+00	AM-243
										PB-214
										PB-212
3	77.17*	868	712	1.20	171.37	162	29	13.3		PB-214
										PB-212
0	87.32	330	633	1.30	193.86	190	8	28.6		NP-237
										PB-214
										PB-212
4	89.91	137	333	0.96	199.61	197	14	40.0	2.73E+00	
4	92.76*	339	743	1.85	205.92	197	14	34.8		TH-234
0	185.76*	271	819	1.48	412.07	403	18	52.0		
0	209.39	186	424	1.49	464.43	459	11	45.5		AC-228
3	238.71*	1510	336	1.47	529.42	522	22	7.1	2.08E+00	PB-212
3	241.73	393	442	2.04	536.13	522	22	30.8		PB-214
0	270.59	136	229	1.21	600.08	596	9	43.9		RA-223
										AC-228
0	295.29*	484	264	1.35	654.83	649	12	16.4		PB-214
0	299.91	101	227	1.85	665.07	661	10	59.4		PB-212
0	328.33	95	232	1.63	728.07	722	12	67.6		
0	338.55	354	321	1.30	750.72	743	16	25.0		AC-228
0	351.96*	862	228	1.57	780.44	772	15	10.4		PB-214
0	408.97	46	205	0.83	906.79	902	11	123.1		AC-228
0	463.03	112	208	1.98	1026.62	1017	17	62.1		AC-228
0	511.04*	173	217	2.26	1133.03	1125	20	48.3		TL-208
0	583.34*	421	164	1.33	1293.28	1285	16	17.0		TL-208
0	609.42*	589	144	1.75	1351.08	1344	15	12.3		BI-214
0	661.61	459	109	2.14	1466.76	1458	15	13.7		CS-137
0	727.01*	119	77	1.70	1611.70	1604	14	36.7		BI-212
0	911.13*	363	48	2.07	2019.75	2012	15	13.7		AC-228
0	968.26	190	125	1.73	2146.37	2136	21	32.9		AC-228
0	1120.39*	149	63	1.21	2483.51	2475	18	30.2		BI-214
0	1239.11	50	59	1.99	2746.60	2740	19	77.9		BI-214
0	1377.34	50	26	0.77	3052.93	3042	21	58.1		BI-214
0	1460.90*	377	49	1.92	3238.08	3228	22	14.3		K-40
0	1764.40*	87	4	2.63	3910.63	3901	17	25.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.43	131	457	1.34	103.22	99	10	1.21E-02	66.6	2.76E+00	
4	89.91	137	333	0.96	199.61	197	14	1.27E-02	40.0	3.55E+00	
0	185.76	271	819	1.48	412.07	403	18	2.51E-02	52.0	2.82E+00	
0	328.33	95	232	1.63	728.07	722	12	8.79E-03	67.6	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.476E+00	5.379E-01	2.712E-01	1.596E-02	12.817
CS-137	2.824E-01	4.376E-02	3.622E-02	2.608E-03	7.797
TL-208	2.334E-01	4.386E-02	2.959E-02	2.355E-03	7.886
BI-212	5.705E-01	2.136E-01	2.133E-01	1.548E-02	2.674
PB-212	7.967E-01	8.215E-02	4.745E-02	3.547E-03	16.792
BI-214	6.220E-01	9.006E-02	5.635E-02	4.293E-03	11.038
PB-214	7.024E-01	9.196E-02	5.785E-02	4.602E-03	12.143
RA-223	2.469E-01	1.105E-01	1.471E-01	1.302E-02	1.678
AC-228	9.626E-01	1.484E-01	1.109E-01	7.800E-03	8.677
TH-234	9.693E-01	3.480E-01	3.377E-01	3.023E-02	2.871
NP-237	4.113E-01	1.264E-01	1.359E-01	1.515E-02	3.026
AM-243	1.096E-01	3.068E-02	3.067E-02	5.899E-03	3.573

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-6.097E-03		1.628E-02	2.620E-02	1.389E-03	-0.233
RH-101	-9.228E-03		1.812E-02	2.975E-02	4.592E-03	-0.310
SB-125	3.094E-02		4.586E-02	8.250E-02	6.820E-03	0.375
EU-155	7.311E-02		4.954E-02	8.799E-02	8.274E-03	0.831
PO-209	1.268E+00		3.296E+00	6.047E+00	1.114E+00	0.210
BI-211	1.494E-01		5.060E-01	8.874E-01	6.391E-02	0.168
PA-233	-1.101E-02		3.181E-02	5.258E-02	4.291E-03	-0.209
PA-234M	-2.560E-01		2.024E+00	3.587E+00	2.449E-01	-0.071
U-235	9.468E-02		1.071E-01	1.858E-01	1.379E-02	0.510
NP-236	1.568E-02		2.943E-02	4.694E-02	4.479E-03	0.334
NP-239	2.749E-02		1.097E-01	1.872E-01	2.504E-02	0.147
AM-241	-1.765E-03		3.477E-02	5.029E-02	3.182E-03	-0.035
CM-243	1.069E-02		4.482E-02	7.781E-02	8.385E-03	0.137
AM-246	2.900E-02		5.911E-02	1.094E-01	1.381E-02	0.265
CF-249	-1.605E-03		1.985E-02	3.455E-02	3.441E-03	-0.046

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 15-NOV-2007 15:19:47

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793303_GAMMA1_400MLSAN_17145.CNF

---- Sample Information ----

Sample ID	: OH207-7933-03		
Sample Title	: SB-CZ-SS-2193-ST		
Sample Quantity	: 3.94300E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17145		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 15-NOV-2007 12:19:29
Decay time	: 50 12:19:29.21	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.19

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**2} + a5*x^{**3} + a6*x^{**4} + a7*x^{**5})$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: TM Moore Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	74.99*	324	454	1.11	149.39	145	14	25.2	1.86E+00	AM-243
										PB-214
										PB-212
4	77.17*	536	400	0.99	153.75	145	14	14.8		PB-214
										PB-212
0	87.28	232	469	1.15	174.00	171	7	33.6		NP-237
										PB-214
										PB-212
0	89.97	99	328	0.93	179.39	177	5	58.7		
0	93.21*	304	688	1.51	185.88	182	12	37.6		
0	129.31	104	431	0.89	258.17	255	8	72.0		AC-228
0	186.03*	218	416	1.33	371.73	367	9	37.7		
0	209.61	197	383	0.93	418.95	414	10	39.9		AC-228
3	238.62*	1527	201	1.08	477.04	470	18	6.0	1.41E+00	PB-212
3	240.98	184	206	1.15	481.76	470	18	40.5		
3	241.97	157	202	1.24	483.76	470	18	38.8		PB-214
0	270.20	129	203	1.46	540.27	537	8	42.2		RA-223
										AC-228
0	295.12*	351	245	1.24	590.18	586	9	19.4		PB-214
0	300.07	96	241	1.35	600.08	596	9	61.4		PB-212
0	327.96	69	189	0.98	655.93	652	8	73.2		
0	338.28*	361	259	1.21	676.60	670	14	21.9		AC-228
0	351.73*	640	268	1.31	703.52	696	14	13.6		PB-214
0	408.64	83	123	2.33	817.47	813	10	54.9		AC-228
0	463.36	82	130	1.22	927.03	921	10	56.3		AC-228
0	510.62*	188	188	1.73	1021.65	1015	13	37.3		TL-208
0	583.05*	501	135	1.44	1166.67	1159	15	13.6		TL-208
0	609.02*	489	102	1.57	1218.67	1213	12	12.4		BI-214
0	661.14	421	121	1.36	1323.00	1316	15	15.0		CS-137
0	727.05*	135	62	1.60	1454.97	1450	11	28.9		BI-212
0	794.96	57	76	1.19	1590.93	1585	13	69.2		AC-228
0	860.67	61	61	0.79	1722.47	1716	14	60.5		TL-208
0	910.69*	340	43	1.73	1822.61	1815	14	13.8		AC-228
0	934.03	44	30	1.43	1869.33	1864	13	58.7		BI-214
2	964.16	72	50	2.06	1929.65	1922	28	44.9	9.94E-01	AC-228
2	968.59*	185	35	1.79	1938.51	1922	28	20.6		AC-228
0	1119.88*	120	39	1.34	2241.37	2234	15	30.0		BI-214
0	1237.37	54	34	1.47	2476.55	2470	13	48.5		BI-214
0	1377.23	29	33	1.20	2756.49	2752	13	90.6		BI-214
0	1459.90*	294	17	2.31	2921.98	2915	14	13.5		K-40
0	1729.04	17	7	1.96	3460.64	3455	10	78.7		BI-214
0	1763.56*	82	15	1.20	3529.72	3522	15	31.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	89.97	99	328	0.93	179.39	177	5	9.14E-03	58.7	2.33E+00	
0	93.21	304	688	1.51	185.88	182	12	2.81E-02	37.6	2.44E+00	T
0	186.03	218	416	1.33	371.73	367	9	2.02E-02	37.7	3.03E+00	
3	240.98	184	206	1.15	481.76	470	18	1.70E-02	40.5	2.64E+00	
0	327.96	69	189	0.98	655.93	652	8	6.37E-03	73.2	2.11E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.471E+00	3.732E-01	1.745E-01	1.191E-02	14.161
CS-137	2.599E-01	4.785E-02	2.863E-02	3.077E-03	9.077
TL-208	2.828E-01	4.787E-02	2.657E-02	2.666E-03	10.646
BI-212	6.406E-01	1.953E-01	2.014E-01	1.938E-02	3.180
PB-212	8.420E-01	8.214E-02	4.130E-02	3.187E-03	20.386
BI-214	5.226E-01	8.403E-02	5.287E-02	5.385E-03	9.885
PB-214	5.425E-01	8.528E-02	5.053E-02	3.988E-03	10.736
RA-223	2.437E-01	1.052E-01	1.340E-01	1.233E-02	1.818
AC-228	8.588E-01	1.274E-01	8.588E-02	4.746E-03	10.000
NP-237	5.403E-01	1.979E-01	2.411E-01	3.487E-02	2.241
AM-243	1.806E-01	5.926E-02	5.198E-02	1.090E-02	3.474

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.168E-02		1.432E-02	2.300E-02	1.501E-03	0.508
RH-101	7.054E-04		1.598E-02	2.660E-02	4.125E-03	0.027
SB-125	-1.262E-03		4.076E-02	7.023E-02	5.760E-03	-0.018
EU-155	3.283E-02		5.952E-02	1.030E-01	1.022E-02	0.319
PO-209	-1.333E+00		2.895E+00	4.903E+00	8.774E-01	-0.272
BI-211	-4.641E-01		4.149E-01	6.632E-01	4.832E-02	-0.700
PA-233	1.175E-02		2.709E-02	4.833E-02	4.058E-03	0.243
PA-234M	-5.487E-01		1.565E+00	2.703E+00	1.554E-01	-0.203
TH-234	1.473E+00	+	5.801E-01	6.079E-01	7.092E-02	2.424
U-235	3.731E-02		1.001E-01	1.696E-01	1.184E-02	0.220
NP-236	3.920E-02		3.719E-02	5.903E-02	6.484E-03	0.664
NP-239	4.906E-02		1.051E-01	1.757E-01	2.371E-02	0.279
AM-241	5.520E-03		9.621E-02	1.680E-01	1.336E-02	0.033
CM-243	2.184E-02		5.247E-02	9.062E-02	1.033E-02	0.241
AM-246	-1.651E-02		4.394E-02	7.474E-02	9.199E-03	-0.221
CF-249	1.117E-02		1.826E-02	3.252E-02	3.137E-03	0.343

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 15-NOV-2007 15:21:03

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793304_GAMMA2_400MLSAN_17146.CNF

---- Sample Information ----

Sample ID	: OH207-7933-04		
Sample Title	: SB-CZ-SS-2194-ST		
Sample Quantity	: 4.59900E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17146		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 15-NOV-2007 12:20:45
Decay time	: 50 12:20:45.87	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.49

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.68491E+00 a3=7.34327E-01 a4=7.12916E-02
a5=8.21331E-02 a6=-7.02143E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.69	512	624	1.19	148.97	142	16	18.9	3.43E+00	AM-243 PB-214 PB-212
2	77.05	812	609	1.14	153.66	142	16	12.8		PB-214 PB-212
1	87.17*	254	666	1.11	173.80	164	19	36.7	1.75E+00	NP-237 PB-214 PB-212
1	89.88	154	692	1.11	179.20	164	19	57.9		
2	92.46*	116	556	0.92	184.34	182	8	74.3	2.19E+00	
2	93.21*	114	647	1.14	185.83	182	8	82.9		
0	186.00*	344	592	1.41	370.61	366	9	28.5		
0	209.06	188	556	0.96	416.55	413	9	47.3		AC-228
2	238.76*	2124	352	1.12	475.71	469	19	5.3	3.20E+00	PB-212
2	241.10	236	425	1.43	480.37	469	19	47.9		
2	242.10	286	375	1.34	482.35	469	19	28.6		PB-214
0	270.32	218	392	1.56	538.57	533	11	37.6		RA-223 AC-228
0	277.77	101	302	1.67	553.42	550	8	62.7		TL-208
0	295.45*	570	320	1.22	588.64	584	9	14.3		PB-214
0	300.37	172	278	1.20	598.44	594	9	38.1		PB-212
0	327.81	107	198	0.83	653.11	650	8	49.3		
0	338.50*	446	299	1.39	674.41	670	10	17.6		AC-228
0	352.21*	1072	444	1.32	701.72	695	15	10.6		PB-214
0	409.66	119	240	1.08	816.21	810	12	55.3		AC-228
0	463.10	143	184	1.01	922.74	918	11	40.1		AC-228
0	510.97*	208	281	1.72	1018.16	1011	17	42.3		TL-208
0	583.27*	703	163	1.48	1162.31	1154	16	11.2		TL-208
0	609.44*	757	175	1.47	1214.51	1208	14	10.6		BI-214
0	661.78	286	149	1.40	1318.89	1314	11	20.3		CS-137
0	727.54	207	96	1.76	1450.07	1442	17	25.9		BI-212
0	795.22	74	98	1.29	1585.10	1581	12	59.9		AC-228
0	836.66	68	82	1.22	1667.80	1662	13	60.0		
0	860.81	89	61	1.69	1716.00	1710	12	39.0		TL-208
0	911.16*	494	104	1.70	1816.48	1807	17	13.2		AC-228
0	964.58	79	69	1.71	1923.12	1916	12	47.6		AC-228
0	968.80*	266	45	1.99	1931.54	1927	10	15.7		AC-228
0	1000.94*	26	34	1.12	1995.71	1991	9	94.0		PA-234M
0	1120.18*	173	73	1.80	2233.84	2227	17	28.0		BI-214
0	1237.39*	73	48	1.87	2468.00	2461	13	46.5		BI-214
0	1377.20*	43	55	1.07	2747.43	2739	16	85.0		BI-214
0	1459.70*	398	36	1.46	2912.35	2904	16	12.5		K-40
0	1729.17	21	26	2.01	3451.38	3441	13	109.7		BI-214
0	1762.76*	148	7	1.82	3518.61	3512	14	18.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	89.88	154	692	1.11	179.20	164	19	1.43E-02	57.9	2.60E+00	
2	92.46	116	556	0.92	184.34	182	8	1.07E-02	74.3	2.69E+00	T
2	93.21	114	647	1.14	185.83	182	8	1.06E-02	82.9	2.72E+00	
0	186.00	344	592	1.41	370.61	366	9	3.19E-02	28.5	3.21E+00	
2	241.10	236	425	1.43	480.37	469	19	2.18E-02	47.9	2.78E+00	
0	327.81	107	198	0.83	653.11	650	8	9.88E-03	49.3	2.20E+00	
0	836.66	68	82	1.22	1667.80	1662	13	6.28E-03	60.0	1.01E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.007E+00	4.229E-01	2.099E-01	1.351E-02	14.328
CS-137	1.508E-01	3.510E-02	2.922E-02	3.325E-03	5.160
TL-208	3.356E-01	5.134E-02	2.557E-02	2.663E-03	13.125
BI-212	8.463E-01	2.378E-01	1.830E-01	2.001E-02	4.623
PB-212	9.528E-01	8.866E-02	4.105E-02	3.137E-03	23.211
BI-214	6.870E-01	1.031E-01	4.888E-02	5.205E-03	14.056
PB-214	7.481E-01	9.801E-02	5.125E-02	3.930E-03	14.595
RA-223	3.373E-01	1.303E-01	1.348E-01	1.199E-02	2.502
AC-228	1.095E+00	1.727E-01	8.910E-02	7.742E-03	12.293
PA-234M	1.925E+00	1.815E+00	2.653E+00	2.071E-01	0.725
NP-237	4.498E-01	1.743E-01	2.081E-01	2.615E-02	2.161
AM-243	2.096E-01	5.753E-02	4.457E-02	8.884E-03	4.702

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-4.874E-03		1.428E-02	2.180E-02	1.268E-03	-0.224
RH-101	-1.001E-02		1.616E-02	2.550E-02	3.981E-03	-0.393
SB-125	-1.837E-03		4.033E-02	6.834E-02	5.603E-03	-0.027
EU-155	4.942E-02		5.694E-02	9.730E-02	9.110E-03	0.508
PO-209	1.063E+00		2.768E+00	4.988E+00	9.564E-01	0.213
BI-211	1.257E-01		4.316E-01	6.797E-01	6.654E-02	0.185
PA-233	1.778E-02		2.750E-02	4.845E-02	3.902E-03	0.367
TH-234	4.322E-01	+	3.240E-01	5.478E-01	5.479E-02	0.789
U-235	-8.968E-04		1.009E-01	1.659E-01	1.211E-02	-0.005
NP-236	-9.212E-04		3.296E-02	5.516E-02	5.483E-03	-0.017
NP-239	4.376E-02		9.707E-02	1.705E-01	2.301E-02	0.257
AM-241	-4.196E-02		8.384E-02	1.411E-01	9.253E-03	-0.297
CM-243	3.793E-02		5.165E-02	8.803E-02	9.517E-03	0.431
AM-246	-9.789E-03		4.809E-02	8.205E-02	1.049E-02	-0.119
CF-249	-9.440E-03		1.745E-02	2.889E-02	2.768E-03	-0.327

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 15-NOV-2007 15:22:19

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793305_GAMMA3_400MLSAN_17147.CNF

---- Sample Information ----

Sample ID	: OH207-7933-05
Sample Title	: SB-CZ-SS-2195-ST
Sample Quantity	: 5.63100E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17147

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 15-NOV-2007 12:21:48
Decay time	: 50 12:21:48.72	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.18

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**}2 + a5*x^{**}3 + a6*x^{**}4 + a7*x^{**}5$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Wood Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.72*	115	606	1.44	103.87	98	11	88.0		
0	63.20*	236	970	1.34	140.39	134	12	56.4		TH-234
3	74.85*	777	1087	1.69	166.23	159	20	19.5	9.44E-01	AM-243
										PB-214
										PB-212
3	77.17*	1161	835	1.19	171.36	159	20	11.0		PB-214
										PB-212
2	87.38	376	911	1.34	193.99	181	32	30.7	1.52E+00	NP-237
										PB-214
										PB-212
2	89.89	259	893	1.37	199.57	181	32	44.4		
2	92.94*	437	1055	1.63	206.32	181	32	32.5		TH-234
0	129.01	230	841	1.34	286.28	281	11	50.4		AC-228
0	185.71*	464	815	1.64	411.95	406	13	27.6		
0	209.16	222	731	0.89	463.92	458	12	50.5		AC-228
2	238.69*	2193	439	1.45	529.39	521	25	5.7	1.98E+00	PB-212
2	241.81	516	536	1.73	536.29	521	25	21.5		PB-214
0	270.49	212	520	1.94	599.87	594	14	47.6		RA-223
										AC-228
0	295.44*	727	360	1.25	655.18	649	12	12.9		PB-214
0	299.68	97	361	1.75	664.57	662	11	78.0		PB-212
0	328.20	94	431	0.96	727.79	720	14	95.7		
0	338.55	437	363	1.33	750.72	745	14	21.0		AC-228
0	352.08*	1269	431	1.53	780.70	773	17	9.4		PB-214
0	462.90	120	214	1.08	1026.34	1021	12	52.2		AC-228
0	510.88*	336	233	1.73	1132.69	1123	21	27.1		TL-208
0	583.22*	747	171	1.82	1293.02	1286	18	11.1		TL-208
0	609.35*	996	195	1.66	1350.93	1343	18	9.2		BI-214
0	661.53	269	122	2.01	1466.58	1459	14	21.3		CS-137
1	727.41*	73	141	2.07	1612.58	1603	20	76.7	2.11E+00	BI-212
0	768.17	76	100	1.37	1702.92	1697	11	55.5		BI-214
0	795.10	111	63	1.48	1762.61	1757	14	35.8		AC-228
0	860.91	86	101	1.95	1908.46	1902	16	56.2		TL-208
0	911.26*	494	84	1.78	2020.05	2009	19	12.7		AC-228
0	934.21	78	85	1.56	2070.90	2061	18	60.3		BI-214
4	964.80	68	104	2.23	2138.69	2128	28	64.9	1.44E+00	AC-228
4	969.19	284	67	2.13	2148.42	2128	28	17.6		AC-228
0	1120.32*	218	62	1.65	2483.35	2473	19	22.2		BI-214
0	1238.83	101	46	2.42	2745.98	2739	18	38.1		BI-214
0	1461.10*	583	28	2.13	3238.55	3229	23	9.9		K-40
0	1496.66	24	18	1.75	3317.33	3308	15	88.6		
0	1729.78	27	11	1.91	3833.91	3828	12	64.2		BI-214
0	1764.41*	179	4	2.00	3910.63	3903	15	16.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.72	115	606	1.44	103.87	98	11	1.07E-02	88.0	2.78E+00	
2	89.89	259	893	1.37	199.57	181	32	2.40E-02	44.4	3.55E+00	
0	185.71	464	815	1.64	411.95	406	13	4.30E-02	27.6	2.82E+00	
0	328.20	94	431	0.96	727.79	720	14	8.72E-03	95.7	1.89E+00	
0	1496.66	24	18	1.75	3317.33	3308	15	2.22E-03	88.6	5.48E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.354E+00	5.027E-01	2.551E-01	1.501E-02	17.071
CS-137	1.341E-01	3.015E-02	3.160E-02	2.275E-03	4.244
TL-208	3.355E-01	4.574E-02	2.589E-02	2.061E-03	12.957
BI-212	2.832E-01	2.182E-01	2.120E-01	1.539E-02	1.336
PB-212	9.370E-01	8.827E-02	4.434E-02	3.315E-03	21.130
BI-214	8.520E-01	1.020E-01	5.099E-02	3.885E-03	16.710
PB-214	8.372E-01	1.034E-01	5.349E-02	4.255E-03	15.653
RA-223	3.124E-01	1.511E-01	1.361E-01	1.205E-02	2.295
AC-228	1.059E+00	1.540E-01	9.565E-02	6.725E-03	11.071
TH-234	1.012E+00	3.407E-01	3.189E-01	2.855E-02	3.172
NP-237	3.796E-01	1.240E-01	1.386E-01	1.545E-02	2.739
AM-243	1.448E-01	3.965E-02	2.678E-02	5.150E-03	5.408

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.214E-02		1.599E-02	2.669E-02	1.415E-03	0.455
RH-101	2.730E-03		1.702E-02	2.858E-02	4.412E-03	0.096
SB-125	2.827E-02		4.410E-02	7.833E-02	6.476E-03	0.361
EU-155	2.095E-02		4.774E-02	8.278E-02	7.784E-03	0.253
PO-209	-2.187E+00		2.935E+00	4.885E+00	9.001E-01	-0.448
BI-211	2.974E-01		4.695E-01	8.321E-01	5.992E-02	0.357
PA-233	6.316E-03		2.978E-02	5.023E-02	4.099E-03	0.126
PA-234M	2.151E+00		1.911E+00	3.619E+00	2.471E-01	0.594
U-235	5.465E-02		1.015E-01	1.741E-01	1.292E-02	0.314
NP-236	1.830E-02		3.165E-02	4.572E-02	4.363E-03	0.400
NP-239	1.193E-01		1.126E-01	1.932E-01	2.585E-02	0.618
AM-241	1.979E-02		3.170E-02	4.692E-02	2.969E-03	0.422
CM-243	-4.189E-02		4.381E-02	7.326E-02	7.894E-03	-0.572
AM-246	2.321E-02		5.382E-02	9.803E-02	1.237E-02	0.237
CF-249	1.214E-02		1.888E-02	3.352E-02	3.339E-03	0.362

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 15-NOV-2007 18:27:25

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793306_GAMMA1_400MLSAN_17148.CNF

---- Sample Information ----

Sample ID	: OH207-7933-06		
Sample Title	: SB-CZ-SS-2196-ST		
Sample Quantity	: 5.05700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17148		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 15-NOV-2007 15:27:07
Decay time	: 50 15:27:07.97	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:03.02

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T Zy Zbaad Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.95*	444	640	0.97	149.32	144	14	20.5	9.94E-01	AM-243
										PB-214
										PB-212
3	77.22*	682	624	0.97	153.86	144	14	14.1		PB-214
										PB-212
0	87.14	238	769	1.22	173.72	171	7	40.8		NP-237
										PB-214
										PB-212
5	89.98	179	394	1.00	179.40	177	14	33.9	1.05E+00	
5	92.99*	450	798	1.55	185.44	177	14	25.5		
0	105.02	94	610	0.91	209.52	207	7	89.1		EU-155
0	128.86	175	795	1.32	257.26	253	9	60.1		AC-228
0	185.98*	414	814	1.30	371.64	367	10	28.1		
0	209.51	273	623	1.23	418.76	414	10	36.3		AC-228
1	238.59*	2326	286	1.08	476.98	470	23	4.8	3.39E+00	PB-212
1	241.00	279	370	1.27	481.82	470	23	35.1		
1	242.01	393	323	1.20	483.82	470	23	19.9		PB-214
0	270.08	228	487	1.36	540.04	534	12	40.8		RA-223
										AC-228
0	277.10	108	487	1.08	554.09	549	11	81.4		TL-208
1	295.16*	756	273	1.10	590.24	586	19	10.2	1.44E+00	PB-214
1	299.65	71	242	1.12	599.25	586	19	82.7		
1	300.40	118	240	1.11	600.75	586	19	50.0		PB-212
0	327.66	115	248	1.24	655.33	652	7	48.9		
0	338.23*	400	401	1.13	676.50	671	11	22.0		AC-228
0	351.79*	1360	400	1.24	703.64	697	13	8.2		PB-214
0	462.25	140	218	1.85	924.80	918	13	46.6		AC-228
0	510.52*	323	289	2.26	1021.46	1013	19	29.1		TL-208
0	582.95*	731	229	1.39	1166.48	1158	14	11.5		TL-208
0	609.10*	984	233	1.56	1218.82	1212	14	9.2		BI-214
2	661.38	383	94	1.54	1323.50	1318	23	13.7	1.88E+00	CS-137
2	665.14	71	96	1.84	1331.03	1318	23	61.9		
0	726.96*	172	143	1.71	1454.79	1448	15	34.2		BI-212
0	767.99	97	97	1.04	1536.94	1532	10	43.1		BI-214
0	794.86	69	97	1.21	1590.73	1585	10	58.5		AC-228
0	859.87	127	89	1.67	1720.87	1714	13	32.9		TL-208
0	910.81*	601	78	1.84	1822.85	1816	13	10.3		AC-228
0	933.68	81	56	2.12	1868.62	1864	11	42.1		BI-214
1	964.42	118	45	1.87	1930.16	1922	26	31.4	1.66E+00	AC-228
1	968.44*	304	48	1.87	1938.21	1922	26	15.1		AC-228
0	1119.91*	208	53	2.13	2241.42	2236	10	19.3		BI-214
0	1237.60	120	84	1.60	2477.00	2468	16	38.7		BI-214
0	1377.56	55	56	2.26	2757.15	2749	15	65.7		BI-214
0	1460.06*	880	42	2.03	2922.29	2914	15	7.5		K-40
0	1728.25	62	20	2.08	3459.05	3449	20	43.4		BI-214
0	1763.37*	214	17	1.65	3529.35	3521	17	16.5		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	89.98	179	394	1.00	179.40	177	14	1.66E-02	33.9	2.33E+00	
5	92.99	450	798	1.55	185.44	177	14	4.16E-02	25.5	2.43E+00	T
0	185.98	414	814	1.30	371.64	367	10	3.84E-02	28.1	3.03E+00	
1	241.00	279	370	1.27	481.82	470	23	2.59E-02	35.1	2.64E+00	
1	299.65	71	242	1.12	599.25	586	19	6.60E-03	82.7	2.26E+00	
0	327.66	115	248	1.24	655.33	652	7	1.07E-02	48.9	2.11E+00	
2	665.14	71	96	1.84	1331.03	1318	23	6.55E-03	61.9	1.21E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.772E+00	5.864E-01	2.027E-01	1.384E-02	28.474
CS-137	1.840E-01	3.202E-02	2.692E-02	2.893E-03	6.836
EU-155	8.070E-02	7.238E-02	9.359E-02	9.292E-03	0.862
TL-208	3.213E-01	4.907E-02	2.534E-02	2.543E-03	12.680
BI-212	6.344E-01	2.254E-01	1.870E-01	1.799E-02	3.393
PB-212	1.000E+00	9.081E-02	3.982E-02	3.073E-03	25.113
BI-214	8.193E-01	1.122E-01	5.262E-02	5.359E-03	15.571
PB-214	8.992E-01	1.023E-01	5.146E-02	4.060E-03	17.476
RA-223	3.373E-01	1.411E-01	1.229E-01	1.131E-02	2.745
AC-228	1.185E+00	1.381E-01	8.665E-02	4.788E-03	13.676
NP-237	4.327E-01	1.872E-01	2.361E-01	3.414E-02	1.833
AM-243	1.931E-01	5.659E-02	5.031E-02	1.055E-02	3.838

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	9.646E-03		1.544E-02	2.319E-02	1.513E-03	0.416
RH-101	-1.887E-03		1.554E-02	2.549E-02	3.953E-03	-0.074
SB-125	-1.036E-02		4.188E-02	7.059E-02	5.789E-03	-0.147
PO-209	2.255E-01		2.843E+00	4.992E+00	8.935E-01	0.045
BI-211	-4.195E-01		4.274E-01	6.967E-01	5.076E-02	-0.602
PA-233	-4.075E-03		2.605E-02	4.487E-02	3.768E-03	-0.091
PA-234M	2.477E+00		1.691E+00	3.239E+00	1.862E-01	0.765
TH-234	1.701E+00	+	4.774E-01	5.786E-01	6.751E-02	2.939
U-235	-1.026E-01		1.008E-01	1.622E-01	1.132E-02	-0.633
NP-236	1.980E-02		3.421E-02	5.601E-02	6.153E-03	0.353
NP-239	-3.836E-02		1.040E-01	1.668E-01	2.251E-02	-0.230
AM-241	-2.068E-02		8.920E-02	1.536E-01	1.221E-02	-0.135
CM-243	4.383E-03		5.603E-02	8.520E-02	9.710E-03	0.051
AM-246	1.707E-02		4.517E-02	8.126E-02	1.000E-02	0.210
CF-249	1.815E-02		1.832E-02	3.250E-02	3.135E-03	0.559

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 15-NOV-2007 18:30:40

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793307_GAMMA2_400MLSAN_17149.CNF

---- Sample Information ----

Sample ID	: OH207-7933-07
Sample Title	: SB-CZ-SS-2197-ST
Sample Quantity	: 5.11800E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17149

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 15-NOV-2007 15:30:24
Decay time	: 50 15:30:24.79	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.70

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.81	484	763	1.08	149.20	143	16	20.1	1.76E+00	AM-243
										PB-214
										PB-212
1	77.12	767	725	0.96	153.80	143	16	13.4		PB-214
										PB-212
3	84.08*	166	533	1.24	167.66	165	13	45.4	1.73E+00	
3	87.12*	304	798	1.16	173.71	165	13	32.9		NP-237
										PB-214
										PB-212
0	92.75*	313	1029	1.61	184.93	182	9	39.6		
0	185.94*	396	893	1.26	370.49	366	10	30.5		
0	209.43	238	649	0.92	417.28	413	9	40.7		AC-228
2	238.77*	2238	407	1.14	475.73	468	20	5.3	3.56E+00	PB-212
2	241.80	576	526	1.48	481.75	468	20	18.1		PB-214
0	270.45	255	429	1.44	538.83	534	10	32.9		RA-223
										AC-228
0	277.74	100	332	0.96	553.35	550	8	66.2		TL-208
0	295.39*	871	492	1.22	588.53	583	11	12.1		PB-214
0	300.24	139	335	1.66	598.17	594	8	48.7		PB-212
0	328.42	136	335	0.97	654.33	649	10	53.4		
0	338.49*	409	395	1.21	674.39	669	10	21.0		AC-228
0	352.10*	1514	361	1.28	701.51	695	13	7.3		PB-214
0	463.53	250	213	1.56	923.58	917	15	28.5		AC-228
0	510.83*	223	280	1.42	1017.89	1011	15	38.1		TL-208
0	583.43*	701	230	1.52	1162.64	1157	15	12.3		TL-208
0	609.46*	1155	225	1.43	1214.55	1207	15	8.3		BI-214
0	661.70	221	133	1.31	1318.73	1313	10	23.6		CS-137
0	727.24	141	161	1.67	1449.47	1445	13	40.6		BI-212
0	768.74	74	110	1.32	1532.26	1527	9	56.5		BI-214
0	786.09	69	143	1.38	1566.88	1559	15	78.8		BI-212
0	795.73	125	101	1.77	1586.12	1579	16	41.0		AC-228
0	860.66	102	68	2.05	1715.69	1708	13	38.8		TL-208
0	911.03*	559	65	1.96	1816.23	1810	15	10.6		AC-228
0	934.22	69	51	1.98	1862.51	1856	12	47.6		BI-214
3	964.64	108	88	1.79	1923.24	1916	22	36.9	1.43E+00	AC-228
3	968.86*	249	61	1.75	1931.68	1916	22	17.8		AC-228
0	1120.04*	224	77	1.95	2233.56	2228	17	22.6		BI-214
0	1237.94*	89	105	2.13	2469.10	2461	18	58.3		BI-214
0	1376.76*	84	26	2.03	2746.54	2739	15	34.8		BI-214
0	1459.78*	838	49	2.03	2912.51	2903	18	8.1		K-40
0	1762.46*	217	19	2.39	3518.02	3510	15	16.4		BI-214
0	1845.87	27	20	1.05	3684.97	3680	12	78.8		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	84.08	166	533	1.24	167.66	165	13	1.53E-02	45.4	2.38E+00	
0	92.75	313	1029	1.61	184.93	182	9	2.90E-02	39.6	2.70E+00	T
0	185.94	396	893	1.26	370.49	366	10	3.66E-02	30.5	3.21E+00	
0	328.42	136	335	0.97	654.33	649	10	1.26E-02	53.4	2.20E+00	
0	1845.87	27	20	1.05	3684.97	3680	12	2.47E-03	78.8	5.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.696E+00	5.890E-01	1.835E-01	1.181E-02	31.041
CS-137	1.049E-01	2.753E-02	2.938E-02	3.342E-03	3.570
TL-208	3.009E-01	4.849E-02	2.457E-02	2.559E-03	12.247
BI-212	5.180E-01	2.177E-01	1.943E-01	2.125E-02	2.665
PB-212	9.023E-01	8.370E-02	4.142E-02	3.165E-03	21.783
BI-214	9.419E-01	1.269E-01	4.827E-02	5.140E-03	19.512
PB-214	9.489E-01	1.007E-01	4.577E-02	3.510E-03	20.731
RA-223	3.541E-01	1.208E-01	1.300E-01	1.157E-02	2.724
AC-228	1.115E+00	1.525E-01	8.240E-02	7.160E-03	13.532
NP-237	4.846E-01	1.705E-01	2.178E-01	2.737E-02	2.225
AM-243	1.782E-01	5.048E-02	4.728E-02	9.425E-03	3.768

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	7.796E-03		1.448E-02	2.484E-02	1.445E-03	0.314
RH-101	-1.419E-02		1.601E-02	2.491E-02	3.890E-03	-0.569
SB-125	-4.240E-03		4.030E-02	6.781E-02	5.559E-03	-0.063
EU-155	4.308E-02		5.569E-02	9.461E-02	8.858E-03	0.455
PO-209	1.598E+00		2.791E+00	5.029E+00	9.642E-01	0.318
BI-211	1.651E-02		4.318E-01	7.507E-01	7.348E-02	0.022
PA-233	-5.947E-03		2.659E-02	4.517E-02	3.638E-03	-0.132
PA-234M	-2.661E-01		1.657E+00	2.843E+00	2.220E-01	-0.094
TH-234	1.049E+00	+	4.281E-01	5.340E-01	5.341E-02	1.964
U-235	5.765E-02		1.005E-01	1.676E-01	1.223E-02	0.344
NP-236	2.334E-03		3.325E-02	5.312E-02	5.280E-03	0.044
NP-239	7.647E-03		9.655E-02	1.674E-01	2.260E-02	0.046
AM-241	-3.950E-02		8.107E-02	1.364E-01	8.945E-03	-0.290
CM-243	5.900E-03		4.996E-02	8.366E-02	9.045E-03	0.071
AM-246	-4.611E-03		4.916E-02	8.413E-02	1.076E-02	-0.055
CF-249	1.446E-02		1.666E-02	2.933E-02	2.810E-03	0.493

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 15-NOV-2007 21:35:18

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793308_GAMMA1_400MLSAN_17152.CNF

---- Sample Information ----

Sample ID	: OH207-7933-08		
Sample Title	: SB-CZ-SS-2198-ST		
Sample Quantity	: 4.69900E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17152		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 15-NOV-2007 18:34:59
Decay time	: 50 18:34:59.99	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:03.24

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.12*	109	665	0.71	125.62	123	7	81.6		TH-234
1	74.87*	581	705	1.02	149.15	142	17	16.8	1.10E+00	AM-243
										PB-214
										PB-212
1	77.23*	904	565	0.91	153.88	142	17	10.5		PB-214
										PB-212
2	87.27	332	726	0.97	173.98	171	19	27.6	2.76E+00	NP-237
										PB-214
										PB-212
2	90.08	263	811	1.14	179.62	171	19	37.5		
2	93.24*	236	656	1.03	185.95	171	19	40.0		TH-234
0	105.52	124	659	1.55	210.54	208	7	71.0		EU-155
0	129.21	271	1107	2.34	257.97	252	12	50.6		AC-228
0	186.01*	356	842	1.26	371.69	367	10	32.8		
0	209.20	269	643	1.13	418.14	414	9	35.9		AC-228
1	238.60*	2944	376	1.11	477.00	470	24	4.3	1.79E+00	PB-212
1	241.07	365	393	1.28	481.94	470	24	28.8		
1	242.03	321	387	1.28	483.88	470	24	27.3		PB-214
0	270.10	290	436	1.61	540.07	535	10	29.4		RA-223
										AC-228
0	277.64	151	610	1.23	555.17	548	13	69.5		TL-208
0	295.13*	731	451	1.08	590.19	586	10	13.2		PB-214
0	300.21	195	407	0.88	600.37	596	9	40.0		PB-212
0	327.98	137	327	1.14	655.98	652	8	48.7		
0	338.12*	565	441	1.22	676.27	670	12	17.2		AC-228
0	351.84*	1464	339	1.26	703.75	698	12	7.3		PB-214
0	409.15	87	259	1.31	818.50	814	10	72.7		AC-228
0	462.63	191	252	0.92	925.57	920	12	36.3		AC-228
0	510.40*	435	277	1.55	1021.22	1013	17	21.2		TL-208
0	582.92*	1013	208	1.39	1166.40	1161	13	8.7		TL-208
0	609.10*	1038	237	1.51	1218.82	1213	15	9.1		BI-214
0	661.28	109	138	1.37	1323.29	1317	10	44.4		CS-137
0	727.01*	214	168	1.87	1454.88	1449	15	29.8		BI-212
0	768.11	73	111	1.04	1537.16	1533	8	54.5		BI-214
1	785.10	60	81	1.76	1571.17	1567	32	59.0	1.48E+00	BI-212
1	794.56	135	99	1.76	1590.12	1567	32	32.8		AC-228
0	859.91	145	97	1.45	1720.95	1713	15	34.1		TL-208
0	910.71*	683	107	1.69	1822.65	1814	15	10.1		AC-228
3	964.26	128	89	1.93	1929.85	1923	21	33.3	1.33E+00	AC-228
3	968.52*	435	58	1.73	1938.38	1923	21	11.9		AC-228
0	1120.02*	275	82	1.86	2241.64	2234	17	19.6		BI-214
0	1237.40	94	98	2.56	2476.61	2469	14	49.3		BI-214
0	1377.38	79	37	2.31	2756.80	2749	16	41.9		BI-214
0	1459.90*	1058	87	2.23	2921.97	2913	21	7.6		K-40
0	1588.01	29	62	1.88	3178.38	3173	12	111.9		AC-228
0	1728.35	52	9	1.74	3459.26	3450	17	38.1		BI-214
0	1763.71*	163	29	1.85	3530.02	3520	20	23.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	90.08	263	811	1.14	179.62	171	19	2.43E-02	37.5	2.33E+00	
0	186.01	356	842	1.26	371.69	367	10	3.30E-02	32.8	3.03E+00	
1	241.07	365	393	1.28	481.94	470	24	3.38E-02	28.8	2.64E+00	
0	327.98	137	327	1.14	655.98	652	8	1.27E-02	48.7	2.11E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	7.470E+00	7.616E-01	2.215E-01	1.512E-02	33.722
CS-137	5.661E-02	2.589E-02	3.483E-02	3.742E-03	1.625
EU-155	1.142E-01	8.182E-02	1.075E-01	1.067E-02	1.063
TL-208	4.794E-01	6.376E-02	2.768E-02	2.777E-03	17.322
BI-212	8.506E-01	2.661E-01	2.095E-01	2.015E-02	4.060
PB-212	1.362E+00	1.206E-01	4.438E-02	3.425E-03	30.701
BI-214	9.304E-01	1.273E-01	5.255E-02	5.353E-03	17.704
PB-214	1.042E+00	1.122E-01	5.358E-02	4.228E-03	19.446
RA-223	4.603E-01	1.418E-01	1.440E-01	1.325E-02	3.197
AC-228	1.451E+00	1.675E-01	9.231E-02	5.101E-03	15.715
TH-234	9.619E-01	4.012E-01	5.172E-01	6.034E-02	1.860
NP-237	6.500E-01	2.025E-01	2.691E-01	3.891E-02	2.416
AM-243	2.718E-01	7.303E-02	5.574E-02	1.169E-02	4.877

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.988E-03		1.629E-02	2.707E-02	1.766E-03	0.184
RH-101	1.332E-02		1.758E-02	2.941E-02	4.561E-03	0.453
SB-125	2.900E-02		4.341E-02	7.642E-02	6.267E-03	0.380
PO-209	-4.020E-01		2.957E+00	5.122E+00	9.168E-01	-0.078
BI-211	-3.658E-01		4.654E-01	7.700E-01	5.610E-02	-0.475
PA-233	-1.985E-02		2.900E-02	4.878E-02	4.096E-03	-0.407
PA-234M	1.556E+00		1.970E+00	3.592E+00	2.065E-01	0.433
U-235	-7.334E-03		1.092E-01	1.811E-01	1.265E-02	-0.040
NP-236	4.985E-02		3.849E-02	6.638E-02	7.292E-03	0.751
NP-239	3.839E-02		1.171E-01	1.924E-01	2.596E-02	0.199
AM-241	8.918E-02		1.119E-01	1.793E-01	1.426E-02	0.497
CM-243	5.602E-02		6.372E-02	9.920E-02	1.131E-02	0.565
AM-246	1.830E-02		5.512E-02	9.767E-02	1.202E-02	0.187
CF-249	8.029E-03		2.000E-02	3.475E-02	3.352E-03	0.231

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 15-NOV-2007 21:36:26

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793309_GAMMA2_400MLSAN_17153.CNF

---- Sample Information ----

Sample ID	: OH207-7933-09		
Sample Title	: SB-CZ-SS-2199-ST		
Sample Quantity	: 5.81500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17153		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 15-NOV-2007 18:36:05
Decay time	: 50 18:36:05.76	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.84

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
5	73.13	123	886	1.56	145.86	142	17	84.5	2.79E+00	
5	74.80	606	898	1.23	149.19	142	17	18.6		AM-243
										PB-214
										PB-212
5	77.08	813	784	0.99	153.72	142	17	13.0		PB-214
										PB-212
0	83.91*	115	721	1.12	167.32	165	6	76.5		
0	86.84*	267	1013	0.96	173.16	171	7	41.5		NP-237
										PB-214
										PB-212
3	89.89	211	539	1.01	179.23	177	14	33.4	1.74E+00	
3	92.85*	377	868	1.16	185.13	177	14	28.8		
0	128.99	198	923	0.92	257.08	253	9	57.1		AC-228
0	185.95*	396	904	1.31	370.52	366	10	30.7		
0	209.26	213	734	0.91	416.95	413	9	47.9		AC-228
2	238.76*	2615	457	1.13	475.70	468	22	4.8	2.09E+00	PB-212
2	241.15	327	408	1.19	480.46	468	22	29.3		
2	242.19	363	341	0.99	482.54	468	22	21.4		PB-214
0	270.43	240	727	1.41	538.79	532	14	49.3		RA-223
										AC-228
0	278.25	118	551	1.29	554.37	549	11	80.1		TL-208
0	295.43*	811	434	1.21	588.59	583	10	12.0		PB-214
0	300.18	164	342	1.23	598.07	594	8	42.1		PB-212
0	328.60	151	384	0.89	654.68	650	10	51.0		
0	338.40*	505	445	1.17	674.21	669	11	18.6		AC-228
0	352.15*	1387	361	1.21	701.62	696	11	7.6		PB-214
0	463.44	174	211	1.08	923.40	919	10	34.8		AC-228
0	510.82*	319	283	1.69	1017.87	1010	17	28.4		TL-208
0	583.37*	822	156	1.46	1162.51	1157	11	9.2		TL-208
0	609.47*	1026	226	1.33	1214.57	1208	14	8.9		BI-214
0	727.32	237	131	1.32	1449.63	1442	16	25.2		BI-212
0	767.78	84	138	1.36	1530.34	1525	11	58.4		BI-214
0	786.67	41	130	1.40	1568.04	1560	12	116.6		BI-212
0	795.17	86	87	1.37	1585.01	1579	10	45.8		AC-228
0	860.25	107	95	1.15	1714.86	1708	14	43.3		TL-208
0	911.06*	562	94	1.87	1816.28	1811	11	10.7		AC-228
0	933.94	44	60	1.44	1861.96	1856	10	72.1		BI-214
4	964.25	120	40	2.57	1922.48	1916	22	29.8	1.53E+00	AC-228
4	968.77*	372	37	1.87	1931.49	1916	22	12.4		AC-228
0	1120.03*	236	45	1.62	2233.54	2228	12	17.8		BI-214
0	1237.24*	107	90	2.01	2467.71	2459	18	46.2		BI-214
0	1459.72*	728	34	2.23	2912.40	2906	15	8.4		K-40
0	1588.62	76	36	5.29	3170.18	3162	19	45.3		AC-228
0	1762.42*	172	17	2.59	3517.94	3509	17	19.2		BI-214
0	1845.93	39	11	1.51	3685.09	3679	13	48.9		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	73.13	123	886	1.56	145.86	142	17	1.14E-02	84.5	1.87E+00	
0	83.91	115	721	1.12	167.32	165	6	1.07E-02	76.5	2.37E+00	
3	89.89	211	539	1.01	179.23	177	14	1.95E-02	33.4	2.61E+00	
3	92.85	377	868	1.16	185.13	177	14	3.49E-02	28.8	2.71E+00	T
0	185.95	396	904	1.31	370.52	366	10	3.67E-02	30.7	3.21E+00	
2	241.15	327	408	1.19	480.46	468	22	3.03E-02	29.3	2.78E+00	
0	328.60	151	384	0.89	654.68	650	10	1.40E-02	51.0	2.20E+00	
0	1845.93	39	11	1.51	3685.09	3679	13	3.64E-03	48.9	5.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.352E+00	4.598E-01	2.050E-01	1.319E-02	21.235
TL-208	3.105E-01	4.319E-02	2.442E-02	2.543E-03	12.717
BI-212	7.676E-01	2.109E-01	1.642E-01	1.795E-02	4.675
PB-212	9.277E-01	8.380E-02	3.632E-02	2.775E-03	25.544
BI-214	7.366E-01	1.023E-01	4.069E-02	4.332E-03	18.106
PB-214	7.650E-01	8.267E-02	4.520E-02	3.466E-03	16.924
RA-223	2.938E-01	1.472E-01	1.180E-01	1.050E-02	2.489
AC-228	9.868E-01	1.361E-01	8.460E-02	7.351E-03	11.664
NP-237	3.736E-01	1.619E-01	1.842E-01	2.315E-02	2.028
AM-243	1.962E-01	5.346E-02	4.167E-02	8.306E-03	4.709

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	8.430E-03		1.355E-02	2.382E-02	1.386E-03	0.354
RH-101	5.186E-03		1.421E-02	2.321E-02	3.623E-03	0.223
SB-125	3.071E-02		3.458E-02	6.092E-02	4.994E-03	0.504
CS-137	3.020E-02		1.591E-02	2.950E-02	3.356E-03	1.024
EU-155	8.349E-02		5.275E-02	9.044E-02	8.468E-03	0.923
PO-209	2.008E+00		2.379E+00	4.357E+00	8.354E-01	0.461
BI-211	2.096E-02		3.822E-01	6.649E-01	6.509E-02	0.032
PA-233	-3.208E-04		2.372E-02	4.061E-02	3.271E-03	-0.008
PA-234M	1.693E+00		1.535E+00	2.859E+00	2.232E-01	0.592
TH-234	1.113E+00	+	3.395E-01	4.867E-01	4.868E-02	2.286
U-235	2.919E-02		8.892E-02	1.473E-01	1.075E-02	0.198
NP-236	1.191E-02		3.115E-02	5.012E-02	4.982E-03	0.238
NP-239	5.323E-03		8.812E-02	1.526E-01	2.060E-02	0.035
AM-241	-7.454E-02		7.303E-02	1.208E-01	7.921E-03	-0.617
CM-243	-3.581E-02		4.793E-02	7.800E-02	8.433E-03	-0.459
AM-246	5.179E-02		4.529E-02	8.422E-02	1.077E-02	0.615
CF-249	6.922E-04		1.519E-02	2.583E-02	2.475E-03	0.027

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 15-NOV-2007 21:37:32

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793310_GAMMA3_400MLSAN_17154.CNF

---- Sample Information ----

Sample ID	: OH207-7933-10
Sample Title	: SB-CZ-SS-2200-ST
Sample Quantity	: 5.50700E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17154

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 15-NOV-2007 18:37:05
Decay time	: 50 18:37:05.92	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.30

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**}2 + a5*x^{**}3 + a6*x^{**}4 + a7*x^{**}5$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Hood Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.48*	142	969	1.26	141.03	137	10	87.0		TH-234
2	74.84*	980	905	1.27	166.20	159	19	12.7	1.91E+00	AM-243
										PB-214
										PB-212
2	77.13*	1574	958	1.37	171.27	159	19	9.2		PB-214
										PB-212
0	87.74	285	1426	1.35	194.80	187	10	51.0		NP-237
										PB-214
										PB-212
2	89.90	252	730	1.16	199.58	197	15	35.1	1.09E+00	
2	92.89*	471	1119	1.63	206.20	197	15	31.3		TH-234
0	129.09	327	1092	1.08	286.45	280	13	43.1		AC-228
0	186.06*	472	853	1.65	412.72	406	12	27.1		
0	209.02	213	663	1.50	463.62	460	10	47.1		AC-228
2	238.72*	2563	460	1.47	529.45	522	22	5.2	1.85E+00	PB-212
2	241.81	658	535	1.85	536.29	522	22	19.6		PB-214
0	270.42	296	477	1.48	599.71	593	13	32.6		RA-223
										AC-228
0	277.84*	102	404	1.53	616.16	612	10	77.0		TL-208
3	295.31*	859	303	1.53	654.89	648	28	10.2	1.46E+00	PB-214
3	300.13	222	392	2.11	665.56	648	28	41.5		PB-212
3	328.21	214	299	2.14	727.79	722	42	35.3	2.91E+00	
3	338.51	609	296	1.84	750.64	722	42	13.8		AC-228
0	352.07*	1388	393	1.52	780.69	774	14	8.1		PB-214
0	462.85	184	206	1.88	1026.22	1019	14	36.3		AC-228
0	510.92*	302	283	2.32	1132.77	1123	17	29.9		TL-208
0	583.23*	844	225	1.72	1293.04	1285	19	11.0		TL-208
0	609.27*	1063	187	1.69	1350.75	1342	17	8.6		BI-214
0	662.06	359	209	1.83	1467.75	1459	20	22.4		CS-137
0	727.22*	184	93	1.50	1612.17	1607	11	25.4		BI-212
0	768.20	97	105	1.22	1702.99	1698	10	44.3		BI-214
0	794.89	79	112	1.75	1762.14	1756	14	61.1		AC-228
0	860.85	128	86	1.62	1908.33	1900	16	37.3		TL-208
0	911.27*	536	118	1.80	2020.06	2013	17	13.0		AC-228
3	964.58	85	68	2.05	2138.22	2133	23	41.9	2.97E+00	AC-228
3	969.05	312	78	1.99	2148.12	2133	23	16.3		AC-228
0	1120.31*	207	77	2.09	2483.33	2475	14	21.5		BI-214
0	1238.02	89	39	1.71	2744.19	2738	12	35.2		BI-214
0	1377.87	73	41	1.61	3054.09	3047	15	44.9		BI-214
0	1460.87*	710	64	2.47	3238.03	3227	23	9.6		K-40
0	1510.18	32	43	2.31	3347.30	3339	17	101.3		BI-214
0	1729.45	36	14	0.89	3833.18	3822	19	61.0		BI-214
0	1764.83*	179	36	2.28	3911.58	3902	24	23.4		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.90	252	730	1.16	199.58	197	15	2.33E-02	35.1	3.55E+00	
0	186.06	472	853	1.65	412.72	406	12	4.37E-02	27.1	2.81E+00	
3	328.21	214	299	2.14	727.79	722	42	1.98E-02	35.3	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.423E+00	6.116E-01	2.246E-01	1.321E-02	24.150
CS-137	1.831E-01	4.309E-02	2.986E-02	2.150E-03	6.131
TL-208	3.878E-01	5.278E-02	2.913E-02	2.318E-03	13.315
BI-212	7.297E-01	1.930E-01	2.334E-01	1.694E-02	3.126
PB-212	1.119E+00	1.019E-01	4.796E-02	3.585E-03	23.337
BI-214	9.297E-01	1.066E-01	5.346E-02	4.073E-03	17.391
PB-214	9.367E-01	1.067E-01	5.821E-02	4.631E-03	16.093
RA-223	4.461E-01	1.505E-01	1.441E-01	1.276E-02	3.096
AC-228	1.175E+00	1.732E-01	1.135E-01	7.983E-03	10.347
TH-234	1.114E+00	3.626E-01	3.215E-01	2.879E-02	3.464
NP-237	2.943E-01	1.535E-01	1.665E-01	1.856E-02	1.768
AM-243	1.870E-01	4.305E-02	2.919E-02	5.613E-03	6.406

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	7.070E-03		1.720E-02	3.034E-02	1.609E-03	0.233
RH-101	-6.019E-03		1.768E-02	2.928E-02	4.519E-03	-0.206
SB-125	-1.802E-03		4.553E-02	7.874E-02	6.510E-03	-0.023
EU-155	5.790E-02		5.151E-02	9.006E-02	8.469E-03	0.643
PO-209	7.631E-04		3.307E+00	5.841E+00	1.076E+00	0.000
BI-211	-2.132E-01		4.925E-01	8.128E-01	5.853E-02	-0.262
PA-233	2.467E-03		3.135E-02	5.256E-02	4.289E-03	0.047
PA-234M	-4.031E-01		2.001E+00	3.489E+00	2.382E-01	-0.116
U-235	9.417E-02		1.109E-01	1.908E-01	1.417E-02	0.493
NP-236	4.771E-02		3.084E-02	4.794E-02	4.575E-03	0.995
NP-239	1.524E-02		1.163E-01	1.962E-01	2.625E-02	0.078
AM-241	4.556E-02		3.522E-02	5.304E-02	3.356E-03	0.859
CM-243	2.280E-03		4.595E-02	7.902E-02	8.515E-03	0.029
AM-246	2.506E-02		5.851E-02	1.060E-01	1.337E-02	0.236
CF-249	8.245E-03		1.964E-02	3.459E-02	3.445E-03	0.238

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-NOV-2007 00:50:07

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793311_GAMMA3_400MLSAN_17157.CNF

---- Sample Information ----

Sample ID : OH207-7933-11
Sample Title : SB-CZ-SS-2201-ST
Sample Quantity : 4.76500E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17157

---- Sample Decay/Count Information ----

Collection Date : 26-SEP-2007 00:00:00 Acquisition date : 15-NOV-2007 21:49:51
Decay time : 50 21:49:51.56 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:01.26

---- Detector Parameters ----

Energy cal. time : 30-OCT-2006 16:06:41 Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA3 Counting geometry: 400 ml sand
Effic. cal. time : 7-FEB-2007 13:40:24. Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.85663E+00 a3=8.12782E-01 a4=8.53513E-02
a5=-4.88423E-02 a6=-7.49502E-03 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.51*	203	728	1.33	103.40	98	12	56.7		
0	63.31*	206	1060	1.29	140.64	136	11	65.1		TH-234
2	74.94*	1036	1154	1.48	166.41	158	26	14.8	1.31E+00	AM-243
										PB-214
										PB-212
2	77.20*	1328	892	1.20	171.42	158	26	10.3		PB-214
										PB-212
1	87.30	570	883	1.47	193.83	190	23	19.4	3.37E+00	NP-237
										PB-214
										PB-212
1	90.04	373	1014	1.47	199.90	190	23	34.6		
1	92.79*	570	830	1.37	205.98	190	23	22.4		TH-234
0	128.71	188	725	2.15	285.60	282	9	53.5		AC-228
0	185.85*	402	829	1.37	412.27	406	12	31.1		
0	209.70	160	649	1.49	465.13	460	10	61.6		AC-228
4	238.69*	2355	427	1.40	529.39	520	23	5.3	2.01E+00	PB-212
4	241.67	699	607	2.07	535.99	520	23	21.1		PB-214
0	270.33	237	476	1.60	599.52	594	13	40.0		RA-223
										AC-228
0	278.15*	118	456	0.92	616.84	611	13	77.5		TL-208
1	295.36*	847	331	1.48	654.98	646	25	10.6	6.98E-01	PB-214
1	300.21	220	334	1.73	665.74	646	25	35.8		PB-212
0	328.06	149	294	1.85	727.47	723	10	46.1		
0	338.69	388	448	1.42	751.02	743	13	24.7		AC-228
0	352.03*	1478	371	1.55	780.59	772	14	7.6		PB-214
0	409.56	66	236	1.20	908.11	906	9	87.2		AC-228
0	462.86	109	239	1.75	1026.26	1021	12	59.6		AC-228
0	510.93*	278	257	1.73	1132.79	1126	18	31.8		TL-208
0	583.13*	726	221	1.70	1292.82	1283	16	11.9		TL-208
0	609.32*	934	232	1.51	1350.86	1343	15	9.7		BI-214
0	661.60	394	185	1.58	1466.73	1460	13	17.4		CS-137
0	727.24*	221	143	1.72	1612.20	1603	19	29.3		BI-212
0	768.15	94	157	2.13	1702.89	1697	16	63.2		BI-214
0	794.85	87	126	2.14	1762.06	1755	16	61.2		AC-228
0	861.06	66	119	1.29	1908.79	1902	15	75.4		TL-208
0	911.13*	474	86	1.56	2019.74	2010	19	13.3		AC-228
0	934.39	45	79	1.80	2071.31	2065	13	85.6		BI-214
1	964.97	126	107	2.22	2139.09	2131	29	39.2	1.78E+00	AC-228
1	968.99	288	81	2.22	2148.00	2131	29	18.8		AC-228
0	1120.56*	242	104	2.10	2483.89	2474	23	25.5		BI-214
0	1377.67	56	22	1.63	3053.66	3049	10	41.7		BI-214
0	1408.84	66	20	3.16	3122.72	3116	17	40.5		BI-214
0	1460.79*	771	21	2.30	3237.86	3227	20	7.9		K-40
0	1509.92	54	44	2.37	3346.71	3339	20	66.7		BI-214
0	1729.61	63	13	1.27	3833.53	3823	17	36.4		BI-214
0	1764.48*	183	4	2.05	3910.80	3903	16	16.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.51	203	728	1.33	103.40	98	12	1.88E-02	56.7	2.77E+00	
1	90.04	373	1014	1.47	199.90	190	23	3.45E-02	34.6	3.55E+00	
0	185.85	402	829	1.37	412.27	406	12	3.72E-02	31.1	2.82E+00	
0	328.06	149	294	1.85	727.47	723	10	1.38E-02	46.1	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	6.810E+00	6.693E-01	2.633E-01	1.549E-02	25.866
CS-137	2.323E-01	4.383E-02	4.298E-02	3.095E-03	5.404
TL-208	3.858E-01	5.523E-02	3.338E-02	2.657E-03	11.557
BI-212	1.016E+00	3.069E-01	2.445E-01	1.774E-02	4.155
PB-212	1.189E+00	1.090E-01	5.338E-02	3.990E-03	22.273
BI-214	9.440E-01	1.168E-01	6.735E-02	5.131E-03	14.017
PB-214	1.153E+00	1.271E-01	6.179E-02	4.916E-03	18.658
RA-223	4.129E-01	1.693E-01	1.662E-01	1.471E-02	2.484
AC-228	1.202E+00	1.807E-01	1.317E-01	9.263E-03	9.126
TH-234	1.558E+00	3.761E-01	4.281E-01	3.833E-02	3.639
NP-237	6.793E-01	1.520E-01	1.943E-01	2.165E-02	3.497
AM-243	2.282E-01	5.538E-02	3.428E-02	6.592E-03	6.658

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.445E-02		2.032E-02	3.357E-02	2.043E-03	-0.430
RH-101	2.232E-03		2.040E-02	3.422E-02	5.282E-03	0.065
SB-125	3.904E-02		5.301E-02	9.437E-02	7.801E-03	0.414
EU-155	8.592E-02		5.915E-02	1.038E-01	9.760E-03	0.828
PO-209	2.086E-01		3.782E+00	6.709E+00	1.236E+00	0.031
BI-211	2.698E-01		5.812E-01	1.016E+00	7.317E-02	0.266
PA-233	2.645E-03		3.697E-02	6.191E-02	5.052E-03	0.043
PA-234M	2.354E+00		2.267E+00	4.271E+00	2.916E-01	0.551
U-235	1.109E-01		1.213E-01	2.093E-01	1.554E-02	0.530
NP-236	6.539E-02		3.775E-02	5.608E-02	5.351E-03	1.166
NP-239	4.123E-02		1.351E-01	2.288E-01	3.061E-02	0.180
AM-241	2.813E-02		4.076E-02	6.023E-02	3.812E-03	0.467
CM-243	6.422E-02		5.319E-02	9.299E-02	1.002E-02	0.691
AM-246	5.896E-03		6.943E-02	1.227E-01	1.548E-02	0.048
CF-249	2.466E-02		2.323E-02	4.162E-02	4.145E-03	0.592

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-NOV-2007 12:00:13

Configuration :
SYS$SYSDEVICE: [GAMMA.SCUSR.ARCHIVE]SMP_OH207793312_GAMMA1_400MLSAN_17158.CNF

---- Sample Information ----

Sample ID	: OH207-7933-12		
Sample Title	: SB-CZ-SS-2202-ST		
Sample Quantity	: 4.04200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17158		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 16-NOV-2007 08:59:54
Decay time	: 51 08:59:54.97	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.72

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE: [GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE: [GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE: [GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.55*	111	715	0.93	126.48	122	9	90.4		TH-234
1	74.84*	464	596	1.02	149.09	144	15	19.1	8.78E-01	AM-243
										PB-214
										PB-212
1	77.22*	751	468	0.89	153.86	144	15	11.5		PB-214
										PB-212
4	87.28	416	498	1.29	174.01	171	20	19.4	2.41E+00	NP-237
										PB-214
										PB-212
4	89.93	218	581	1.25	179.30	171	20	39.4		
4	93.02*	332	664	1.41	185.49	171	20	30.0		TH-234
0	129.16	214	648	1.10	257.86	254	10	46.5		AC-228
0	186.12*	435	736	1.31	371.92	367	13	27.9		
0	209.47	194	597	1.18	418.67	414	10	49.5		AC-228
5	238.60*	2011	351	1.03	477.00	472	16	5.4	2.68E+00	PB-212
5	241.55	500	472	1.68	482.91	472	16	21.6		PB-214
0	270.44	224	477	1.92	540.77	534	13	42.5		RA-223
										AC-228
1	295.12*	697	232	1.10	590.17	584	21	10.5	9.45E-01	PB-214
1	300.12	134	258	1.33	600.18	584	21	44.8		PB-212
1	326.87	33	124	1.13	653.75	651	10	111.7	1.66E+00	
1	328.01	116	203	1.38	656.02	651	10	47.2		
0	338.30*	497	342	1.31	676.63	671	14	18.2		AC-228
0	351.75*	1132	345	1.12	703.57	697	14	9.2		PB-214
0	409.15	92	192	1.81	818.49	814	10	60.7		AC-228
0	462.66	123	228	1.44	925.63	920	12	52.3		AC-228
0	510.56*	347	276	1.57	1021.54	1013	17	26.0		TL-208
0	583.00*	701	149	1.48	1166.56	1161	13	10.6		TL-208
0	608.99*	912	192	1.52	1218.60	1210	16	9.6		BI-214
0	661.25	358	123	1.59	1323.23	1317	13	16.6		CS-137
0	726.76*	166	88	1.86	1454.38	1449	10	26.5		BI-212
0	768.64	45	113	1.05	1538.23	1532	11	95.2		BI-214
0	794.27	117	91	1.20	1589.55	1583	14	39.4		AC-228
0	835.42	42	46	1.41	1671.93	1668	8	64.3		
0	860.26	113	84	1.51	1721.65	1715	15	40.0		TL-208
0	910.82*	499	102	1.68	1822.87	1817	15	12.7		AC-228
0	933.81	46	75	2.00	1868.90	1862	12	80.6		BI-214
1	964.24	115	53	1.79	1929.80	1922	27	29.6	9.49E-01	AC-228
1	968.42*	290	35	1.86	1938.17	1922	27	14.8		AC-228
0	1119.48*	178	61	1.55	2240.57	2233	13	24.1		BI-214
0	1237.93	115	54	3.43	2477.68	2470	17	34.9		BI-214
0	1378.73	35	69	2.00	2759.49	2749	16	114.6		BI-214
0	1459.82*	645	39	2.15	2921.82	2912	18	9.2		K-40
5	1587.91	37	19	2.19	3178.18	3171	21	61.3	3.01E+00	AC-228
5	1590.97	60	15	3.23	3184.30	3171	21	43.0		
0	1728.67	31	33	1.96	3459.90	3452	13	85.2		BI-214
0	1763.62*	166	9	2.00	3529.84	3524	14	17.9		BI-214
0	1803.45	8	7	3.56	3609.55	3603	12	135.7		
0	1845.73*	18	13	0.76	3694.18	3686	17	108.5		
0	1920.74	15	11	2.85	3844.29	3837	14	103.4		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.93	218	581	1.25	179.30	171	20	2.02E-02	39.4	2.32E+00	
0	186.12	435	736	1.31	371.92	367	13	4.03E-02	27.9	3.03E+00	
1	326.87	33	124	1.13	653.75	651	10	3.08E-03	****	2.11E+00	
1	328.01	116	203	1.38	656.02	651	10	1.07E-02	47.2	2.11E+00	
0	835.42	42	46	1.41	1671.93	1668	8	3.87E-03	64.3	1.03E+00	
5	1590.97	60	15	3.23	3184.30	3171	21	5.56E-03	43.0	6.63E-01	
0	1803.45	8	7	3.56	3609.55	3603	12	7.84E-04	****	5.98E-01	
0	1845.73	18	13	0.76	3694.18	3686	17	1.67E-03	****	5.86E-01	
0	1920.74	15	11	2.85	3844.29	3837	14	1.42E-03	****	5.65E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.292E+00	6.075E-01	2.588E-01	1.766E-02	20.446
CS-137	2.154E-01	4.259E-02	3.390E-02	3.643E-03	6.354
TL-208	3.857E-01	5.644E-02	3.061E-02	3.072E-03	12.599
BI-212	7.684E-01	2.165E-01	2.326E-01	2.238E-02	3.303
PB-212	1.082E+00	1.017E-01	5.057E-02	3.902E-03	21.396
BI-214	9.503E-01	1.328E-01	5.519E-02	5.622E-03	17.219
PB-214	9.370E-01	1.138E-01	5.605E-02	4.423E-03	16.717
RA-223	4.142E-01	1.799E-01	1.446E-01	1.331E-02	2.864
AC-228	1.232E+00	1.701E-01	1.049E-01	5.796E-03	11.744
TH-234	1.571E+00	5.065E-01	5.406E-01	6.307E-02	2.907
NP-237	9.469E-01	2.295E-01	2.844E-01	4.112E-02	3.330
AM-243	2.524E-01	7.156E-02	5.961E-02	1.251E-02	4.233

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.571E-02		1.746E-02	2.855E-02	1.863E-03	0.550
RH-101	-9.627E-03		1.826E-02	2.949E-02	4.574E-03	-0.326
SB-125	5.816E-03		4.667E-02	8.051E-02	6.603E-03	0.072
EU-155	4.706E-02		6.857E-02	1.181E-01	1.173E-02	0.398
PO-209	-9.569E-01		3.252E+00	5.572E+00	9.972E-01	-0.172
BI-211	3.792E-01		5.090E-01	8.389E-01	6.112E-02	0.452
PA-233	1.683E-02		3.000E-02	5.340E-02	4.484E-03	0.315
PA-234M	1.656E+00		1.868E+00	3.513E+00	2.020E-01	0.471
U-235	7.162E-02		1.142E-01	1.939E-01	1.354E-02	0.369
NP-236	3.089E-02		4.025E-02	6.638E-02	7.292E-03	0.465
NP-239	-5.234E-02		1.201E-01	1.923E-01	2.595E-02	-0.272
AM-241	-6.732E-02		1.189E-01	1.810E-01	1.439E-02	-0.372
CM-243	6.471E-02		6.098E-02	1.060E-01	1.208E-02	0.611
AM-246	4.774E-02		5.457E-02	1.022E-01	1.258E-02	0.467
CF-249	-4.803E-03		1.984E-02	3.372E-02	3.253E-03	-0.142

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-NOV-2007 12:01:13

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793313_GAMMA2_400MLSAN_17159.CNF

---- Sample Information ----

Sample ID	: OH207-7933-13		
Sample Title	: SB-CZ-SS-2203-ST		
Sample Quantity	: 5.32800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17159		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 16-NOV-2007 09:00:54
Decay time	: 51 09:00:54.13	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.85

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.72	564	896	1.19	149.02	144	14	19.7	2.17E+00	AM-243
										PB-214
										PB-212
2	77.04	920	784	0.98	153.64	144	14	11.7		PB-214
										PB-212
4	87.13*	431	794	1.22	173.73	164	27	23.8	1.83E+00	NP-237
										PB-214
										PB-212
4	89.87	273	999	1.48	179.19	164	27	44.4		
4	92.88*	484	869	1.39	185.18	164	27	24.0		
0	129.31	121	740	0.74	257.72	253	7	77.0		AC-228
0	153.66	151	871	2.32	306.22	303	9	72.4		
0	185.98*	498	996	1.22	370.58	365	12	27.3		
0	209.22	235	723	1.04	416.86	413	9	43.3		AC-228
2	238.75*	2526	478	1.11	475.69	468	18	5.0	1.39E+00	PB-212
2	241.00	236	481	1.35	480.16	468	18	51.0		
2	242.00	376	408	1.20	482.16	468	18	22.6		PB-214
3	269.85	196	435	1.67	537.63	532	13	44.1	1.10E+00	RA-223
										AC-228
3	270.79	126	437	1.67	539.51	532	13	68.5		
0	278.06	194	523	1.58	553.99	548	12	49.5		TL-208
0	295.38*	798	507	1.24	588.49	582	12	13.4		PB-214
0	300.40	229	397	1.22	598.51	594	10	35.1		PB-212
0	328.22	110	282	1.06	653.93	651	7	53.9		
0	338.64*	554	428	1.17	674.68	670	12	17.4		AC-228
0	352.10*	1472	452	1.27	701.51	696	12	7.8		PB-214
0	410.11	135	310	1.04	817.11	812	11	53.5		AC-228
0	463.29	157	214	1.19	923.11	918	9	37.1		AC-228
0	511.01*	306	326	1.75	1018.23	1010	17	31.1		TL-208
0	583.33*	840	201	1.31	1162.44	1157	13	9.9		TL-208
0	609.40*	1082	189	1.54	1214.42	1209	13	8.1		BI-214
0	661.65	174	150	1.48	1318.63	1312	12	31.9		CS-137
0	727.20	196	146	1.44	1449.39	1444	13	29.0		BI-212
0	768.50	80	137	1.31	1531.79	1526	11	61.7		BI-214
0	785.65	75	94	2.00	1566.01	1561	10	54.1		BI-212
0	794.96	84	150	1.45	1584.58	1578	12	62.3		AC-228
0	835.98	50	81	1.52	1666.43	1662	9	71.4		
0	860.76	118	78	1.65	1715.89	1711	12	35.1		TL-208
0	911.18*	586	118	1.92	1816.53	1809	19	12.4		AC-228
0	934.51	66	67	1.47	1863.10	1857	14	59.3		BI-214
1	964.45	106	76	1.93	1922.87	1916	22	39.0	1.34E+00	AC-228
1	968.85*	359	64	1.84	1931.65	1916	22	13.9		AC-228
0	1119.96*	229	98	2.07	2233.41	2226	15	23.2		BI-214
0	1238.15*	90	111	1.58	2469.53	2462	17	58.0		BI-214
0	1376.69*	60	60	1.32	2746.41	2738	15	62.5		BI-214
0	1459.75*	825	70	2.04	2912.45	2902	20	8.7		K-40
0	1588.70	109	24	6.61	3170.33	3161	22	31.1		AC-228
0	1728.11	29	22	1.41	3449.28	3442	11	72.8		BI-214
0	1762.69*	182	18	2.20	3518.47	3512	14	18.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.87	273	999	1.48	179.19	164	27	2.53E-02	44.4	2.60E+00	
4	92.88	484	869	1.39	185.18	164	27	4.48E-02	24.0	2.71E+00	T
0	153.66	151	871	2.32	306.22	303	9	1.40E-02	72.4	3.38E+00	
0	185.98	498	996	1.22	370.58	365	12	4.62E-02	27.3	3.21E+00	
2	241.00	236	481	1.35	480.16	468	18	2.19E-02	51.0	2.78E+00	
3	270.79	126	437	1.67	539.51	532	13	1.17E-02	68.5	2.56E+00	
0	328.22	110	282	1.06	653.93	651	7	1.02E-02	53.9	2.20E+00	
0	835.98	50	81	1.52	1666.43	1662	9	4.59E-03	71.4	1.01E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.389E+00	5.828E-01	2.068E-01	1.331E-02	26.061
CS-137	7.927E-02	2.688E-02	2.772E-02	3.154E-03	2.859
TL-208	3.461E-01	4.970E-02	2.518E-02	2.622E-03	13.747
BI-212	6.903E-01	2.141E-01	1.852E-01	2.025E-02	3.728
PB-212	9.783E-01	8.915E-02	4.187E-02	3.199E-03	23.368
BI-214	8.473E-01	1.135E-01	4.440E-02	4.728E-03	19.081
PB-214	8.862E-01	9.708E-02	4.892E-02	3.751E-03	18.115
RA-223	2.611E-01	1.174E-01	1.218E-01	1.083E-02	2.144
AC-228	1.123E+00	1.697E-01	8.995E-02	7.817E-03	12.481
NP-237	6.594E-01	1.775E-01	1.922E-01	2.416E-02	3.430
AM-243	1.993E-01	5.591E-02	4.697E-02	9.363E-03	4.243

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-2.201E-03		1.381E-02	2.111E-02	1.228E-03	-0.104
RH-101	-4.512E-03		1.626E-02	2.601E-02	4.061E-03	-0.173
SB-125	-1.447E-02		3.844E-02	6.379E-02	5.230E-03	-0.227
EU-155	1.219E-02		5.587E-02	9.357E-02	8.761E-03	0.130
PO-209	2.046E+00		2.615E+00	4.772E+00	9.150E-01	0.429
BI-211	3.500E-02		4.559E-01	6.916E-01	6.770E-02	0.051
PA-233	-1.428E-02		2.645E-02	4.432E-02	3.569E-03	-0.322
PA-234M	2.182E-03		1.686E+00	2.919E+00	2.278E-01	0.001
TH-234	1.558E+00	+	4.053E-01	5.371E-01	5.372E-02	2.900
U-235	2.328E-03		9.990E-02	1.640E-01	1.197E-02	0.014
NP-236	7.444E-03		3.461E-02	5.541E-02	5.508E-03	0.134
NP-239	2.640E-02		9.713E-02	1.690E-01	2.281E-02	0.156
AM-241	-9.613E-03		8.172E-02	1.388E-01	9.105E-03	-0.069
CM-243	-1.026E-02		5.076E-02	8.413E-02	9.096E-03	-0.122
AM-246	3.769E-02		4.871E-02	8.877E-02	1.135E-02	0.425
CF-249	2.385E-02		1.704E-02	3.035E-02	2.908E-03	0.786

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-NOV-2007 12:02:06

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793314_GAMMA3_400MLSAN_17160.CNF

---- Sample Information ----

Sample ID	: OH207-7933-14
Sample Title	: SB-CZ-SS-2204-ST
Sample Quantity	: 5.50400E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17160

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 16-NOV-2007 09:01:50
Decay time	: 51 09:01:50.58	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.13

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**}2 + a5*x^{**}3 + a6*x^{**}4 + a7*x^{**}5$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/19/2007
11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.88*	655	1036	1.44	166.29	159	20	20.7	5.22E+00	AM-243
										PB-214
										PB-212
1	77.32*	1135	995	1.45	171.71	159	20	12.6		PB-214
										PB-212
3	87.24	370	1055	1.52	193.69	181	31	34.1	2.44E+00	NP-237
										PB-214
										PB-212
3	90.04	155	621	0.98	199.90	181	31	53.5		
3	92.79*	336	908	1.31	206.00	181	31	36.8		
0	128.95	122	455	0.93	286.15	283	6	58.5		AC-228
0	185.95*	282	694	1.38	412.49	408	10	38.2		
0	209.68	161	593	1.20	465.09	460	11	61.0		AC-228
2	238.64*	1871	440	1.43	529.27	523	20	6.4	1.70E+00	PB-212
2	241.69	567	486	1.85	536.03	523	20	20.7		PB-214
0	270.04	158	409	1.31	598.88	594	10	50.3		RA-223
										AC-228
1	295.28*	812	288	1.64	654.82	649	22	10.8	1.00E+00	PB-214
1	299.94	175	326	1.74	665.15	649	22	44.1		PB-212
0	327.91	77	278	1.39	727.13	724	9	80.4		
0	338.69	372	397	1.13	751.04	744	14	25.0		AC-228
0	352.03*	1353	369	1.48	780.61	772	16	8.4		PB-214
0	409.68	70	315	1.28	908.39	901	15	113.1		AC-228
0	510.99*	224	224	2.29	1132.92	1123	17	36.2		TL-208
0	583.10*	586	117	1.58	1292.75	1286	13	11.4		TL-208
0	609.36*	948	161	1.62	1350.95	1343	17	9.1		BI-214
0	661.67	350	219	1.65	1466.89	1460	17	22.1		CS-137
0	727.61*	181	126	2.00	1613.04	1605	18	33.3		BI-212
7	767.74	78	132	2.99	1701.96	1695	24	65.9	2.04E+00	BI-214
7	772.81	35	97	2.44	1713.20	1695	24	119.7		
0	794.84	92	87	1.86	1762.03	1754	16	50.1		AC-228
0	861.36	96	93	2.08	1909.44	1899	18	51.7		TL-208
0	911.15*	353	75	1.85	2019.80	2013	13	14.9		AC-228
0	934.39	54	45	1.53	2071.30	2067	11	55.2		BI-214
1	964.45	70	78	2.21	2137.93	2132	26	57.3	1.88E+00	AC-228
1	969.01	194	78	1.96	2148.04	2132	26	23.7		AC-228
0	1000.69*	48	68	4.72	2218.23	2210	16	83.8		PA-234M
0	1120.38*	238	80	1.45	2483.48	2475	17	21.8		BI-214
0	1238.19	69	77	2.26	2744.56	2737	14	58.9		BI-214
0	1460.81*	503	72	2.38	3237.90	3226	24	12.8		K-40
0	1590.99	69	22	6.63	3526.37	3517	19	41.6		
0	1730.29	39	11	1.75	3835.03	3827	16	50.4		BI-214
0	1764.76*	172	21	2.21	3911.41	3903	17	19.9		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	90.04	155	621	0.98	199.90	181	31	1.44E-02	53.5	3.55E+00	
3	92.79	336	908	1.31	206.00	181	31	3.11E-02	36.8	3.55E+00	T
0	185.95	282	694	1.38	412.49	408	10	2.61E-02	38.2	2.81E+00	
0	327.91	77	278	1.39	727.13	724	9	7.16E-03	80.4	1.90E+00	
7	772.81	35	97	2.44	1713.20	1695	24	3.28E-03	****	9.21E-01	
0	1590.99	69	22	6.63	3526.37	3517	19	6.35E-03	41.6	5.26E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.847E+00	5.418E-01	2.214E-01	1.302E-02	17.379
CS-137	1.784E-01	4.144E-02	2.832E-02	2.039E-03	6.299
TL-208	2.695E-01	3.756E-02	2.623E-02	2.088E-03	10.275
BI-212	7.181E-01	2.449E-01	2.016E-01	1.463E-02	3.562
PB-212	8.178E-01	8.073E-02	4.598E-02	3.437E-03	17.786
BI-214	8.298E-01	9.824E-02	4.994E-02	3.805E-03	16.614
PB-214	9.136E-01	1.058E-01	5.401E-02	4.297E-03	16.915
RA-223	2.385E-01	1.218E-01	1.428E-01	1.264E-02	1.670
AC-228	7.755E-01	1.281E-01	1.099E-01	7.726E-03	7.057
PA-234M	3.491E+00	2.935E+00	3.222E+00	2.200E-01	1.083
NP-237	3.819E-01	1.372E-01	1.355E-01	1.510E-02	2.818
AM-243	1.249E-01	3.526E-02	2.721E-02	5.232E-03	4.590

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.035E-02		1.742E-02	2.588E-02	1.373E-03	-0.400
RH-101	-2.201E-03		1.687E-02	2.812E-02	4.340E-03	-0.078
SB-125	1.758E-03		4.309E-02	7.494E-02	6.196E-03	0.023
EU-155	6.231E-02		4.712E-02	8.291E-02	7.796E-03	0.752
PO-209	-1.059E+00		3.090E+00	5.340E+00	9.839E-01	-0.198
BI-211	-3.447E-01		4.752E-01	7.672E-01	5.525E-02	-0.449
PA-233	-3.439E-03		3.028E-02	5.042E-02	4.115E-03	-0.068
TH-234	7.954E-01	+	3.010E-01	4.335E-01	2.884E-02	1.835
U-235	8.847E-02		1.010E-01	1.745E-01	1.295E-02	0.507
NP-236	4.080E-02		2.941E-02	4.572E-02	4.363E-03	0.892
NP-239	-3.275E-02		1.068E-01	1.779E-01	2.380E-02	-0.184
AM-241	-9.019E-02		3.112E-02	4.638E-02	2.935E-03	-1.945
CM-243	-1.768E-02		4.276E-02	7.276E-02	7.841E-03	-0.243
AM-246	4.768E-02		5.579E-02	1.042E-01	1.315E-02	0.458
CF-249	1.371E-02		1.766E-02	3.167E-02	3.154E-03	0.433

BENCH SHEET

Method:	Gamma Spec (DOE 4.5.2.3)	Project Name:	Cabrera Services-Oahu, HI
Analysis Type:	Gamma (DOE 21 day ing	Project Location:	
Matrix:	Soil	Project Number:	FOAH2/L
Date Received:	9/27/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7933 7936 8			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7934-PB		9/27/2007 8:45:00 AM	
SCAQC	7934-LD1 OH207-7934-01	SB-CA-SS-2191-SD	9/26/2007	
SCAQC	7934-LC1		9/27/2007 8:45:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7934-01	SB-CA-SS-2191-SD	9/26/2007	
OH207	7934-02	SB-CA-SS-2192-SD	9/26/2007	
OH207	7934-03	SB-CA-SS-2193-SD	9/26/2007	
OH207	7934-04	SB-CA-SS-2194-SD	9/26/2007	
OH207	7934-05	SB-CA-SS-2195-SD	9/26/2007	
OH207	7934-06	SB-CA-SS-2196-SD	9/26/2007	
OH207	7934-07	SB-CA-SS-2197-SD	9/26/2007	
OH207	7934-08	SB-CA-SS-2198-SD	9/26/2007	
OH207	7934-09	SB-CA-SS-2199-SD	9/26/2007	
OH207	7934-10	SB-CA-SS-2200-SD	9/26/2007	
OH207	7934-11	SB-CA-SS-2201-SD	9/26/2007	
OH207	7934-12	SB-CA-SS-2202-SD	9/26/2007	
OH207	7934-13	SB-CA-SS-2203-SD	9/26/2007	
OH207	7934-14	SB-CA-SS-2204-SD	9/26/2007	

Radiochemistry Reviewer 11/19/07 Date

QA Reviewer 11/19/2007 Date

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-14-07 2102 G2	500	SCAQC	8051	LD1	–	10-31-07 0830	DUP 8051-01	LIQUID	1 Liter	400 mL Liquid □ / 1 Liter Liquid ☑ / 10 mL Sand □ / 20 mL Sand □ / 40 mL Sand □ / 200 mL Sand □ / 400 mL Sand □ ____ □
11-14-07 2104 G3	500	VWH07	8051	01	–	↓	07-07	LIQUID	1 Liter	400 mL Liquid □ / 1 Liter Liquid ☑ / 10 mL Sand □ / 20 mL Sand □ / 40 mL Sand □ / 200 mL Sand □ / 400 mL Sand □ ____ □
11-14-07 12:06 G-1 M.S.	180	SCAQC	7934	PB1	–	9/27/07 0845	PREP BLK	LIQUID	400g	400 mL Liquid □ / 1 Liter Liquid □ / 10 mL Sand □ / 20 mL Sand □ / 40 mL Sand □ / 200 mL Sand □ / 400 mL Sand ☑ ____ □
11-17-07 1113 G-1	60	↓	↓	LC1	–	↓	CTRL SAMP S-142	SOIL	640g	400 mL Liquid □ / 1 Liter Liquid □ / 10 mL Sand □ / 20 mL Sand □ / 40 mL Sand □ / 200 mL Sand □ / 400 mL Sand ☑ ____ □
11-14-07 12:08 G-2 M.S.	180	↓	↓	LD1	–	9/26/07	DUP 7934-01	↓	415.5 gdry	400 mL Liquid □ / 1 Liter Liquid □ / 10 mL Sand □ / 20 mL Sand □ / 40 mL Sand □ / 200 mL Sand □ / 400 mL Sand ☑ ____ □
11-14-07 15:21 G-3 M.S.	↓	0H207	↓	01	–	↓	SB-CA-SS-2191-SD	↓	415.5 gdry	400 mL Liquid □ / 1 Liter Liquid □ / 10 mL Sand □ / 20 mL Sand □ / 40 mL Sand □ / 200 mL Sand □ / 400 mL Sand ☑ ____ □
11-14-07 12:11 G-3 M.S.	↓	↓	↓	02	–	↓	2192-SD	↓	476.0 gdry	400 mL Liquid □ / 1 Liter Liquid □ / 10 mL Sand □ / 20 mL Sand □ / 40 mL Sand □ / 200 mL Sand □ / 400 mL Sand ☑ ____ □
11-14-07 15:19 G-1 M.S.	↓	↓	↓	03	–	↓	2193-SD	↓	446.1 gdry	400 mL Liquid □ / 1 Liter Liquid □ / 10 mL Sand □ / 20 mL Sand □ / 40 mL Sand □ / 200 mL Sand □ / 400 mL Sand ☑ ____ □
11-14-07 15:19 G-2 M.S.	↓	↓	↓	04	–	↓	2194-SD	↓	475.4 gdry	400 mL Liquid □ / 1 Liter Liquid □ / 10 mL Sand □ / 20 mL Sand □ / 40 mL Sand □ / 200 mL Sand □ / 400 mL Sand ☑ ____ □
11-16-07 1839 G11C	↓	↓	↓	05	–	↓	2195-SD	✓	472.4 gdry	400 mL Liquid □ / 1 Liter Liquid □ / 10 mL Sand □ / 20 mL Sand □ / 40 mL Sand □ / 200 mL Sand □ / 400 mL Sand ☑ ____ □

amp1 = G1
amp2 = G2

SC&A - Southeastern Environmental Laboratory
SCA-Form 012 Rev. 1

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-16-07 1841 G2 IC	180	OH207	7934	06	–	9/26/07	SB-CA-SS-2196-SD	SOIL	484.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-16-07 1842 G3 IC				07	–		2197-SD		501.6 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-16-07 2201 G3 CW				08	–		2198-SD		457.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 0923 G2 IC				09	–		2199-SD		445.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 0928 G3				10	–		2200-SD		485.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 1222 G1				11	–		2201-SD		458.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 1227 G2				12	–		2202-SD		387.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 1228 G3				13	–		2203-SD		483.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 1537 2038 CW 11-17-07 G1 CW				14	–	✓	2204-SD	✓	511.6 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 1538 G3 CW	180	SCAQC	7935	PB1	–	9/27/07 0845	PREP BLK	LIQUID	400 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

anna1 = G1
anna2 = G2

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SCA-Form 012 Rev. 1

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-NOV-2007 15:06:20

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7934PB1_GAMMA1_400MLSA_17161.CNF

---- Sample Information ----

Sample ID	: SCAQC-7934-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17161		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 16-NOV-2007 12:06:01
Decay time	: 50 03:21:01.37	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.20

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw %Err	Fit	Nuclides
0	510.56*	40	68	2.51	1021.53	1013	15123.4		
0	760.91	25	18	1.28	1522.76	1516	12 77.6		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	510.56	40	68	2.51	1021.53	1013	15	3.68E-03	****	1.48E+00	T
0	760.91	25	18	1.28	1522.76	1516	12	2.35E-03	77.6	1.10E+00	

Flags: "T" = Tentatively associated

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	7.302E-02		1.206E-01	2.551E-01	1.741E-02	0.286
CO-60	2.109E-03		9.091E-03	1.733E-02	1.058E-03	0.122
RH-101	-2.598E-03		9.629E-03	1.622E-02	2.516E-03	-0.160
SB-125	6.071E-03		2.900E-02	5.191E-02	4.257E-03	0.117
CS-137	7.832E-03		8.888E-03	1.809E-02	1.944E-03	0.433
EU-155	-3.040E-02		3.131E-02	5.078E-02	5.042E-03	-0.599
TL-208	6.727E-04		1.075E-02	1.958E-02	1.965E-03	0.034
PO-209	1.961E+00		2.203E+00	4.324E+00	7.739E-01	0.454
BI-211	-1.286E-01		2.762E-01	4.776E-01	3.480E-02	-0.269
BI-212	-1.155E-02		8.036E-02	1.444E-01	1.389E-02	-0.080
PB-212	2.636E-03		1.718E-02	3.039E-02	2.345E-03	0.087
BI-214	9.101E-03		2.280E-02	4.150E-02	4.227E-03	0.219
PB-214	-1.156E-02		2.103E-02	3.528E-02	2.784E-03	-0.328
RA-223	-2.222E-03		4.785E-02	8.554E-02	7.871E-03	-0.026
AC-228	-1.710E-02		4.115E-02	7.137E-02	3.944E-03	-0.240
PA-233	4.566E-04		1.700E-02	3.051E-02	2.562E-03	0.015
PA-234M	3.991E-01		1.378E+00	2.575E+00	1.480E-01	0.155
TH-234	-6.812E-02		1.793E-01	3.288E-01	3.836E-02	-0.207
U-235	-2.948E-02		5.982E-02	9.857E-02	6.881E-03	-0.299
NP-236	2.879E-03		1.926E-02	3.286E-02	3.609E-03	0.088
NP-237	-1.276E-02		6.873E-02	1.192E-01	1.723E-02	-0.107
NP-239	5.752E-02		6.224E-02	1.106E-01	1.492E-02	0.520
AM-241	4.438E-03		5.525E-02	9.895E-02	7.866E-03	0.045
AM-243	-1.527E-02		1.652E-02	2.663E-02	5.587E-03	-0.573
CM-243	1.193E-02		2.814E-02	5.045E-02	5.750E-03	0.237
AM-246	-3.030E-04		2.639E-02	4.965E-02	6.111E-03	-0.006
CF-249	-7.681E-04		1.098E-02	1.940E-02	1.871E-03	-0.040

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-NOV-2007 12:14:25

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7934LC1_GAMMA1_400MLSA_17175.CNF

---- Sample Information ----

Sample ID	: SCAQC-7934-LC1		
Sample Title	: CTRL SAMP S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17175		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 17-NOV-2007 11:13:51
Decay time	: 51 02:28:51.63	% dead time	: 0.4%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:14.95

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**2} + a5*x^{**3} + a6*x^{**4} + a7*x^{**5}$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	59.61	20784	6759	1.00	118.60	113	10	2.0		AM-241
0	88.12	9730	4481	1.03	175.68	171	11	3.4		
0	122.11	1621	3258	1.04	243.74	240	9	13.6		
0	136.37	276	2360	1.25	272.30	270	7	59.7		
0	238.64*	264	2604	0.99	477.09	473	8	68.0		
0	351.61*	193	1623	1.25	703.29	700	8	73.7		
0	608.72*	185	1101	2.48	1218.06	1212	11	71.0		
0	661.61	27397	1532	1.50	1323.96	1315	18	1.4		CS-137
0	1173.11	21437	724	1.83	2347.92	2339	19	1.5		CO-60
0	1332.33	19509	209	1.93	2666.63	2656	21	1.5		CO-60
0	1460.94*	64	28	1.18	2924.06	2917	14	43.4		K-40

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	88.12	9730	4481	1.03	175.68	171	11	2.70E+00	3.4	2.26E+00	T
0	122.11	1621	3258	1.04	243.74	240	9	4.50E-01	13.6	3.05E+00	
0	136.37	276	2360	1.25	272.30	270	7	7.66E-02	59.7	3.15E+00	
0	238.64	264	2604	0.99	477.09	473	8	7.34E-02	68.0	2.66E+00	T
0	351.61	193	1623	1.25	703.29	700	8	5.36E-02	73.7	1.99E+00	T
0	608.72	185	1101	2.48	1218.06	1212	11	5.14E-02	71.0	1.29E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	1.002E+00	4.402E-01	5.048E-01	3.445E-02	1.984
CO-60	3.111E+01	1.954E+00	8.919E-02	5.820E-03	348.765
CS-137	3.124E+01	3.384E+00	1.631E-01	1.753E-02	191.492
AM-241	7.549E+01	6.193E+00	1.002E+00	7.964E-02	75.356

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
RH-101	4.243E-03		7.850E-02	1.272E-01	1.973E-02	0.033
SB-125	-1.625E-01		2.719E-01	4.473E-01	3.668E-02	-0.363
EU-155	-6.846E-02		2.590E-01	4.309E-01	4.278E-02	-0.159
TL-208	6.410E-02		9.650E-02	1.600E-01	1.605E-02	0.401
PO-209	9.571E+00		2.443E+01	4.109E+01	7.355E+00	0.233
BI-211	-1.658E+00		3.040E+00	5.057E+00	3.684E-01	-0.328
BI-212	3.734E-01		7.033E-01	1.212E+00	1.166E-01	0.308
PB-212	2.694E-01	+	1.842E-01	2.438E-01	1.881E-02	1.105
BI-214	3.652E-01	+	2.619E-01	3.118E-01	3.176E-02	1.171
PB-214	3.026E-01	+	2.242E-01	3.101E-01	2.447E-02	0.976
RA-223	-1.692E-01		4.205E-01	7.144E-01	6.574E-02	-0.237
AC-228	3.517E-02		4.704E-01	7.868E-01	4.348E-02	0.045
PA-233	5.331E-04		1.579E-01	2.680E-01	2.251E-02	0.002
PA-234M	-5.296E+00		1.396E+01	2.297E+01	1.321E+00	-0.231
TH-234	2.769E-01		1.231E+00	1.873E+00	2.185E-01	0.148
U-235	-2.407E-01		4.443E-01	7.251E-01	5.062E-02	-0.332
NP-236	-1.670E-02		1.487E-01	2.489E-01	2.734E-02	-0.067
NP-237	1.244E+01		1.999E+00	1.555E+00	2.248E-01	7.999
NP-239	6.246E-01		5.688E-01	9.182E-01	1.239E-01	0.680
AM-243	-6.494E-02		1.479E-01	2.479E-01	5.200E-02	-0.262
CM-243	2.904E-04		2.364E-01	3.954E-01	4.506E-02	0.001
AM-246	2.537E-01		4.320E-01	7.211E-01	8.875E-02	0.352
CF-249	-5.849E-03		1.079E-01	1.807E-01	1.743E-02	-0.032

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 16:36:44

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7934LD1_GAMMA2_400MLSA_17162.CNF

---- Sample Information ----

Sample ID	: SCAQC-7934-LD1		
Sample Title	: DUP 7934-01		
Sample Quantity	: 4.15500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17162		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 16-NOV-2007 12:08:58
Decay time	: 51 12:08:58.18	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.21

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Mead Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.19*	97	444	0.94	126.06	123	7	77.6		TH-234
2	74.84	403	528	1.19	149.27	142	17	21.6	1.34E+00	AM-243
										PB-214
										PB-212
2	77.08	562	425	1.01	153.72	142	17	14.7		PB-214
										PB-212
0	87.10*	198	577	1.20	173.68	171	7	43.1		NP-237
										PB-214
										PB-212
0	93.49*	184	921	1.24	186.40	180	11	67.8		TH-234
0	128.84	88	418	1.28	256.79	254	7	79.2		AC-228
0	185.92*	282	583	1.22	370.46	365	12	37.2		
0	209.79	189	365	1.10	418.00	414	8	38.1		AC-228
5	238.73*	1507	249	1.14	475.64	468	18	6.3	2.85E+00	PB-212
5	241.74	360	258	1.97	481.63	468	18	19.3		PB-214
0	270.51	147	271	1.30	538.94	535	9	43.4		RA-223
										AC-228
0	295.46*	401	326	1.19	588.66	584	11	20.4		PB-214
0	300.69	125	246	1.27	599.07	595	9	48.7		PB-212
0	328.08	76	192	1.32	653.65	650	8	66.6		
0	338.56*	292	275	1.28	674.53	669	11	25.3		AC-228
0	352.00*	772	204	1.17	701.32	694	12	10.5		PB-214
0	462.73	113	167	1.33	921.99	916	13	50.5		AC-228
0	511.29*	191	217	2.24	1018.80	1010	18	42.5		TL-208
0	583.36*	400	157	1.47	1162.50	1157	11	16.0		TL-208
0	609.45*	473	151	1.36	1214.52	1209	14	14.7		BI-214
0	662.24	165	127	1.56	1319.80	1313	16	34.4		CS-137
0	727.21	102	67	1.51	1449.40	1444	10	36.2		BI-212
0	795.10	74	50	1.07	1584.86	1579	12	45.2		AC-228
0	860.79	43	65	0.63	1715.95	1710	10	76.5		TL-208
0	911.19*	334	68	1.47	1816.54	1810	15	15.6		AC-228
4	964.69	57	29	2.00	1923.35	1920	18	38.5	2.15E+00	AC-228
4	968.81*	176	41	1.74	1931.57	1920	18	21.4		AC-228
0	1120.14*	122	58	1.67	2233.76	2226	17	34.8		BI-214
0	1377.28*	29	25	1.12	2747.58	2742	15	86.4		BI-214
0	1459.68*	412	36	2.28	2912.32	2903	21	12.7		K-40
0	1509.17	24	31	0.90	3011.28	3004	17	113.8		BI-214
0	1727.47	25	12	1.04	3447.99	3442	12	68.9		BI-214
0	1762.60*	111	9	2.42	3518.30	3511	16	23.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	185.92	282	583	1.22	370.46	365	12	2.61E-02	37.2	3.21E+00	
0	328.08	76	192	1.32	653.65	650	8	7.07E-03	66.6	2.20E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.447E+00	4.900E-01	2.281E-01	1.469E-02	15.111
CS-137	9.631E-02	3.487E-02	2.524E-02	2.871E-03	3.816
TL-208	2.113E-01	4.036E-02	2.768E-02	2.883E-03	7.634
BI-212	4.595E-01	1.737E-01	2.026E-01	2.215E-02	2.268
PB-212	7.484E-01	7.431E-02	3.916E-02	2.993E-03	19.109
BI-214	4.749E-01	8.625E-02	4.788E-02	5.099E-03	9.917
PB-214	5.959E-01	7.728E-02	4.985E-02	3.822E-03	11.954
RA-223	2.522E-01	1.118E-01	1.233E-01	1.097E-02	2.046
AC-228	8.210E-01	1.465E-01	8.438E-02	7.332E-03	9.730
TH-234	7.612E-01	5.217E-01	4.248E-01	4.249E-02	1.792
NP-237	3.876E-01	1.739E-01	2.227E-01	2.799E-02	1.741
AM-243	1.826E-01	5.371E-02	4.696E-02	9.361E-03	3.888

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	8.223E-03		1.495E-02	2.423E-02	1.410E-03	0.339
RH-101	-1.413E-02		1.618E-02	2.516E-02	3.928E-03	-0.562
SB-125	1.911E-03		4.077E-02	6.972E-02	5.716E-03	0.027
EU-155	6.394E-02		5.430E-02	9.425E-02	8.825E-03	0.678
PO-209	-1.275E+00		2.843E+00	4.784E+00	9.171E-01	-0.267
BI-211	-6.152E-01		4.260E-01	6.492E-01	6.355E-02	-0.948
PA-233	-1.761E-02		2.746E-02	4.588E-02	3.695E-03	-0.384
PA-234M	4.082E-01		1.837E+00	3.278E+00	2.559E-01	0.125
U-235	5.738E-02		9.949E-02	1.673E-01	1.221E-02	0.343
NP-236	1.592E-02		3.230E-02	5.276E-02	5.245E-03	0.302
NP-239	4.780E-02		9.799E-02	1.730E-01	2.335E-02	0.276
AM-241	5.248E-02		9.102E-02	1.435E-01	9.411E-03	0.366
CM-243	-4.023E-02		5.012E-02	8.138E-02	8.798E-03	-0.494
AM-246	1.489E-02		4.817E-02	8.721E-02	1.115E-02	0.171
CF-249	-4.186E-03		1.726E-02	2.914E-02	2.792E-03	-0.144

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-NOV-2007 18:22:09

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793401_GAMMA3_400MLSAN_17166.CNF

---- Sample Information ----

Sample ID : OH207-7934-01
Sample Title : SB-CA-SS-2191-SD
Sample Quantity : 4.15500E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17166

---- Sample Decay/Count Information ----

Collection Date : 26-SEP-2007 00:00:00 Acquisition date : 16-NOV-2007 15:21:54
Decay time : 51 15:21:54.38 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:00.90

---- Detector Parameters ----

Energy cal. time : 30-OCT-2006 16:06:41 Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA3 Counting geometry: 400 ml sand
Effic. cal. time : 7-FEB-2007 13:40:24. Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**2} + a5*x^{**3} + a6*x^{**4} + a7*x^{**5}$$

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.85663E+00 a3=8.12782E-01 a4=8.53513E-02
a5=-4.88423E-02 a6=-7.49502E-03 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
5	74.91*	529	949	1.58	166.37	161	17	25.3	3.78E+00	AM-243
										PB-214
										PB-212
5	77.14*	949	779	1.45	171.30	161	17	13.6		PB-214
										PB-212
1	87.25	314	727	1.47	193.70	181	32	33.5	2.69E+00	NP-237
										PB-214
										PB-212
1	89.77	228	555	1.20	199.29	181	32	38.4		
0	186.05*	221	506	1.55	412.70	407	12	44.8		
0	209.23	127	326	1.18	464.09	460	9	54.3		AC-228
1	238.67*	1383	310	1.45	529.34	524	19	7.4	1.64E+00	PB-212
1	241.56	217	321	1.68	535.74	524	19	42.9		PB-214
0	270.97	142	386	1.76	600.93	594	16	64.3		RA-223
										AC-228
0	295.20*	401	202	1.56	654.65	649	12	17.5		PB-214
0	300.03	63	209	1.48	665.34	661	10	89.6		PB-212
0	327.77	107	179	1.59	726.82	721	11	52.0		
0	338.25	260	279	1.20	750.05	743	15	30.5		AC-228
0	351.98*	631	287	1.74	780.50	772	16	14.6		PB-214
0	511.03*	180	178	2.08	1133.02	1126	18	42.1		TL-208
0	583.19*	427	106	1.48	1292.95	1287	15	14.6		TL-208
0	609.35*	418	117	1.40	1350.93	1344	13	14.7		BI-214
0	661.68	137	91	1.60	1466.90	1459	13	33.5		CS-137
0	727.14*	63	94	1.24	1611.99	1604	14	71.4		BI-212
0	794.81	68	60	2.45	1761.96	1754	14	53.6		AC-228
0	911.09*	310	72	2.02	2019.68	2010	22	18.3		AC-228
2	964.69	77	54	2.44	2138.45	2130	26	44.0	2.10E+00	AC-228
2	968.93	122	27	2.05	2147.86	2130	26	29.4		AC-228
0	1120.70*	92	39	2.11	2484.21	2478	13	36.4		BI-214
0	1460.72*	362	15	2.34	3237.70	3229	19	12.0		K-40
0	1729.62	37	0	2.61	3833.54	3827	14	32.9		BI-214
0	1764.25*	97	5	2.31	3910.28	3900	21	24.4		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	89.77	228	555	1.20	199.29	181	32	2.11E-02	38.4	3.55E+00	
0	186.05	221	506	1.55	412.70	407	12	2.05E-02	44.8	2.81E+00	
0	327.77	107	179	1.59	726.82	721	11	9.92E-03	52.0	1.90E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.667E+00	4.905E-01	2.842E-01	1.672E-02	12.901
CS-137	9.228E-02	3.164E-02	3.590E-02	2.585E-03	2.570
TL-208	2.599E-01	4.318E-02	3.088E-02	2.458E-03	8.415
BI-212	3.295E-01	2.365E-01	2.617E-01	1.899E-02	1.259
PB-212	8.005E-01	8.436E-02	5.097E-02	3.810E-03	15.705
BI-214	4.843E-01	8.036E-02	5.840E-02	4.450E-03	8.293
PB-214	5.646E-01	9.376E-02	6.193E-02	4.927E-03	9.117
RA-223	2.832E-01	1.837E-01	1.619E-01	1.433E-02	1.749
AC-228	9.006E-01	1.764E-01	1.061E-01	7.461E-03	8.487
NP-237	4.302E-01	1.519E-01	1.504E-01	1.676E-02	2.860
AM-243	1.337E-01	4.243E-02	3.158E-02	6.072E-03	4.233

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	5.377E-03		1.909E-02	3.349E-02	1.776E-03	0.161
RH-101	-6.874E-03		1.844E-02	3.045E-02	4.699E-03	-0.226
SB-125	-1.319E-02		4.679E-02	8.066E-02	6.668E-03	-0.163
EU-155	7.098E-03		5.166E-02	8.956E-02	8.422E-03	0.079
PO-209	7.403E-01		3.703E+00	6.702E+00	1.235E+00	0.110
BI-211	-2.405E-01		5.351E-01	8.861E-01	6.381E-02	-0.271
PA-233	-4.693E-03		3.396E-02	5.676E-02	4.632E-03	-0.083
PA-234M	7.450E-01		2.150E+00	3.963E+00	2.706E-01	0.188
TH-234	1.007E+00		2.952E-01	5.101E-01	4.566E-02	1.975
U-235	-2.791E-02		1.099E-01	1.854E-01	1.377E-02	-0.150
NP-236	1.449E-02		3.484E-02	5.045E-02	4.814E-03	0.287
NP-239	-1.293E-03		1.193E-01	2.018E-01	2.700E-02	-0.006
AM-241	-1.169E-01		3.829E-02	5.631E-02	3.564E-03	-2.076
CM-243	4.008E-03		4.726E-02	8.182E-02	8.817E-03	0.049
AM-246	-1.228E-02		6.282E-02	1.101E-01	1.389E-02	-0.112
CF-249	6.532E-03		2.157E-02	3.819E-02	3.804E-03	0.171

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-NOV-2007 15:11:53

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793402_GAMMA3_400MLSAN_17163.CNF

---- Sample Information ----

Sample ID	: OH207-7934-02
Sample Title	: SB-CA-SS-2192-SD
Sample Quantity	: 4.76000E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17163

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 16-NOV-2007 12:11:24
Decay time	: 51 12:11:24.94	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.94

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T K Mead Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.86*	533	785	1.44	166.24	158	20	22.7	1.52E+00	AM-243
										PB-214
										PB-212
1	77.14*	962	697	1.29	171.29	158	20	12.4		PB-214
										PB-212
1	87.25	393	705	1.47	193.70	179	35	26.9	3.68E+00	NP-237
										PB-214
										PB-212
1	89.95	272	652	1.47	199.70	179	35	39.0		
0	129.24	116	483	1.25	286.78	282	9	70.8		AC-228
0	186.59*	398	794	1.74	413.90	406	19	36.2		
0	209.54	143	389	1.00	464.78	460	10	54.4		AC-228
3	238.67*	1557	325	1.50	529.34	521	21	6.8	1.56E+00	PB-212
3	241.71	373	321	2.04	536.08	521	21	27.2		PB-214
0	269.95	96	373	1.09	598.67	593	13	85.0		RA-223
										AC-228
0	277.48*	97	256	0.95	615.37	609	11	68.6		TL-208
0	295.34*	440	360	1.37	654.95	648	14	20.8		PB-214
0	300.44	69	237	1.21	666.24	662	9	84.1		PB-212
0	328.00	106	244	1.99	727.35	720	13	63.6		
0	338.50	371	320	1.64	750.61	743	16	23.9		AC-228
0	352.07*	758	239	1.56	780.69	775	11	10.9		PB-214
0	463.21	132	177	1.69	1027.03	1019	17	49.5		AC-228
0	511.11*	155	167	2.13	1133.20	1126	17	46.9		TL-208
0	583.20*	512	113	1.74	1292.98	1286	15	13.0		TL-208
0	609.26*	557	149	1.70	1350.72	1342	16	13.1		BI-214
0	661.68	64	96	2.47	1466.92	1461	11	64.6		CS-137
0	727.16*	123	101	1.76	1612.03	1604	18	42.9		BI-212
0	860.28	64	62	1.56	1907.06	1900	13	56.2		TL-208
0	911.08*	319	71	1.99	2019.65	2012	15	16.4		AC-228
5	964.46	68	33	1.99	2137.94	2133	26	38.1	1.78E+00	AC-228
5	969.07	196	40	2.21	2148.16	2133	26	20.7		AC-228
0	1120.43*	168	40	2.01	2483.59	2476	20	24.4		BI-214
0	1238.39	48	58	1.42	2745.01	2737	15	75.2		BI-214
0	1460.85*	383	44	2.34	3237.99	3229	23	13.7		K-40
0	1764.54*	98	16	2.22	3910.93	3904	15	27.4		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	89.95	272	652	1.47	199.70	179	35	2.52E-02	39.0	3.55E+00	
0	186.59	398	794	1.74	413.90	406	19	3.68E-02	36.2	2.81E+00	
0	328.00	106	244	1.99	727.35	720	13	9.84E-03	63.6	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.385E+00	5.043E-01	2.598E-01	1.529E-02	13.028
CS-137	3.767E-02	2.447E-02	3.238E-02	2.331E-03	1.164
TL-208	2.722E-01	4.142E-02	2.755E-02	2.193E-03	9.881
BI-212	5.672E-01	2.471E-01	2.054E-01	1.491E-02	2.761
PB-212	7.868E-01	7.964E-02	4.304E-02	3.217E-03	18.281
BI-214	5.640E-01	8.542E-02	5.569E-02	4.243E-03	10.128
PB-214	5.915E-01	7.976E-02	5.739E-02	4.566E-03	10.307
RA-223	1.677E-01	1.433E-01	1.392E-01	1.233E-02	1.204
AC-228	8.100E-01	1.444E-01	1.003E-01	7.054E-03	8.074
NP-237	4.697E-01	1.368E-01	1.369E-01	1.526E-02	3.430
AM-243	1.177E-01	3.505E-02	2.771E-02	5.329E-03	4.246

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	3.829E-03		1.558E-02	2.511E-02	1.332E-03	0.152
RH-101	5.899E-03		1.676E-02	2.834E-02	4.374E-03	0.208
SB-125	2.144E-02		4.152E-02	7.447E-02	6.156E-03	0.288
EU-155	3.311E-02		4.804E-02	8.418E-02	7.916E-03	0.393
PO-209	1.861E+00		3.287E+00	6.070E+00	1.118E+00	0.307
BI-211	-2.539E-01		4.798E-01	7.885E-01	5.679E-02	-0.322
PA-233	-1.413E-02		3.038E-02	4.993E-02	4.074E-03	-0.283
PA-234M	1.980E+00		2.063E+00	3.918E+00	2.675E-01	0.506
TH-234	9.282E-01		2.826E-01	4.573E-01	4.094E-02	2.030
U-235	6.586E-02		1.011E-01	1.746E-01	1.296E-02	0.377
NP-236	1.410E-02		3.189E-02	4.614E-02	4.403E-03	0.305
NP-239	1.033E-01		1.106E-01	1.915E-01	2.562E-02	0.540
AM-241	-1.070E-01		3.426E-02	5.030E-02	3.183E-03	-2.128
CM-243	7.167E-04		4.336E-02	7.483E-02	8.064E-03	0.010
AM-246	-2.472E-03		5.563E-02	9.874E-02	1.246E-02	-0.025
CF-249	-8.456E-03		1.868E-02	3.194E-02	3.181E-03	-0.265

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-NOV-2007 18:17:38

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793403_GAMMA1_400MLSAN_17164.CNF

---- Sample Information ----

Sample ID	: OH207-7934-03		
Sample Title	: SB-CA-SS-2193-SD		
Sample Quantity	: 4.46100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17164		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 16-NOV-2007 15:17:19
Decay time	: 51 15:17:19.06	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.10

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**2} + a5*x^{**3} + a6*x^{**4} + a7*x^{**5}$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: TM Moore Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.88*	227	339	0.84	149.18	145	14	27.8	1.12E+00	AM-243
										PB-214
										PB-212
1	77.20*	431	388	0.96	153.81	145	14	17.6		PB-214
										PB-212
0	87.51	119	392	0.93	174.47	171	6	55.8		NP-237
										PB-214
										PB-212
0	93.07*	173	588	1.36	185.59	182	9	55.0		
0	186.02*	225	454	1.36	371.71	367	11	40.2		
0	209.44	114	343	1.35	418.62	415	9	61.8		AC-228
4	238.58*	1240	250	1.06	476.97	472	15	7.0	2.21E+00	PB-212
4	241.42	270	304	1.51	482.64	472	15	30.7		PB-214
0	270.41	112	275	1.17	540.70	536	10	58.8		RA-223
										AC-228
0	277.07	81	251	1.06	554.03	549	10	77.0		TL-208
0	295.12*	403	253	1.17	590.18	586	11	18.3		PB-214
0	300.00	103	193	1.11	599.94	596	9	52.9		PB-212
0	327.46	127	196	1.72	654.92	651	10	44.7		
0	338.47*	293	327	1.39	676.97	669	16	30.2		AC-228
0	351.64*	603	238	1.16	703.35	696	14	13.7		PB-214
0	409.01	65	146	1.64	818.21	813	10	74.1		AC-228
0	462.72	70	153	0.99	925.76	921	11	71.9		AC-228
0	510.85*	222	157	2.23	1022.11	1013	19	33.6		TL-208
0	582.94*	440	126	1.40	1166.45	1161	13	14.5		TL-208
0	609.09*	491	93	1.36	1218.81	1214	13	12.4		BI-214
0	661.19	353	85	1.76	1323.11	1317	13	15.1		CS-137
0	726.70*	130	48	1.68	1454.26	1448	12	28.1		BI-212
0	755.72	23	40	1.49	1512.37	1506	9	109.5		
0	860.09	51	54	1.50	1721.32	1717	10	59.7		TL-208
0	910.68*	321	55	1.65	1822.58	1814	17	15.6		AC-228
1	964.37	47	48	1.87	1930.07	1925	19	56.9	1.80E+00	AC-228
1	968.46*	191	34	1.62	1938.25	1925	19	19.3		AC-228
0	1119.60*	133	22	1.77	2240.82	2235	11	22.6		BI-214
0	1238.39	37	65	1.69	2478.59	2472	18	107.4		BI-214
0	1377.40	47	9	1.59	2756.84	2752	12	39.2		BI-214
0	1459.85*	236	41	1.66	2921.86	2913	18	18.5		K-40
0	1629.40	18	12	0.93	3261.21	3256	9	88.5		
0	1763.21*	66	10	1.29	3529.02	3522	14	33.5		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	93.07	173	588	1.36	185.59	182	9	1.60E-02	55.0	2.43E+00	T
0	186.02	225	454	1.36	371.71	367	11	2.08E-02	40.2	3.03E+00	
0	327.46	127	196	1.72	654.92	651	10	1.18E-02	44.7	2.11E+00	
0	755.72	23	40	1.49	1512.37	1506	9	2.10E-03	****	1.10E+00	
0	1629.40	18	12	0.93	3261.21	3256	9	1.63E-03	88.5	6.51E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.758E+00	3.467E-01	1.766E-01	1.205E-02	9.955
CS-137	1.923E-01	3.570E-02	2.405E-02	2.584E-03	7.998
TL-208	2.192E-01	3.861E-02	2.401E-02	2.409E-03	9.129
BI-212	5.434E-01	1.616E-01	1.596E-01	1.535E-02	3.406
PB-212	6.043E-01	6.300E-02	3.873E-02	2.989E-03	15.603
BI-214	4.634E-01	7.420E-02	4.345E-02	4.426E-03	10.664
PB-214	4.522E-01	7.161E-02	4.356E-02	3.437E-03	10.382
RA-223	1.868E-01	1.111E-01	1.118E-01	1.028E-02	1.672
AC-228	7.167E-01	1.187E-01	7.513E-02	4.152E-03	9.540
NP-237	2.451E-01	1.413E-01	2.162E-01	3.127E-02	1.133
AM-243	1.116E-01	3.888E-02	4.494E-02	9.429E-03	2.484

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.911E-03		1.167E-02	2.116E-02	1.381E-03	0.232
RH-101	-7.334E-03		1.482E-02	2.403E-02	3.727E-03	-0.305
SB-125	-2.116E-02		3.464E-02	5.748E-02	4.714E-03	-0.368
EU-155	5.718E-02		5.120E-02	9.007E-02	8.943E-03	0.635
PO-209	-9.954E-01		2.527E+00	4.314E+00	7.721E-01	-0.231
BI-211	-2.267E-01		3.738E-01	6.290E-01	4.582E-02	-0.360
PA-233	-2.908E-03		2.470E-02	4.288E-02	3.601E-03	-0.068
PA-234M	-1.644E-01		1.351E+00	2.396E+00	1.377E-01	-0.069
TH-234	7.401E-01	+	4.158E-01	5.214E-01	6.083E-02	1.419
U-235	1.623E-02		8.692E-02	1.464E-01	1.022E-02	0.111
NP-236	3.066E-03		3.078E-02	4.990E-02	5.482E-03	0.061
NP-239	1.167E-03		9.177E-02	1.507E-01	2.033E-02	0.008
AM-241	-1.565E-02		8.122E-02	1.407E-01	1.119E-02	-0.111
CM-243	-6.515E-03		4.594E-02	7.784E-02	8.871E-03	-0.084
AM-246	1.119E-03		4.232E-02	7.506E-02	9.238E-03	0.015
CF-249	1.350E-02		1.616E-02	2.907E-02	2.804E-03	0.464

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-NOV-2007 18:20:02

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793404_GAMMA2_400MLSAN_17165.CNF

---- Sample Information ----

Sample ID	: OH207-7934-04		
Sample Title	: SB-CA-SS-2194-SD		
Sample Quantity	: 4.75400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17165		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 16-NOV-2007 15:19:46
Decay time	: 51 15:19:46.89	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.35

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.68491E+00 a3=7.34327E-01 a4=7.12916E-02
a5=8.21331E-02 a6=-7.02143E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Phil Mood Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.88	360	742	1.16	149.35	145	15	27.0	9.94E-01	AM-243
										PB-214
										PB-212
3	77.06	558	498	0.86	153.69	145	15	14.9		PB-214
										PB-212
4	87.24*	232	677	1.16	173.95	170	21	38.8	1.65E+00	NP-237
										PB-214
										PB-212
4	89.84	159	635	1.09	179.13	170	21	54.7		
4	92.67*	292	597	1.22	184.76	170	21	32.0		
0	129.84	241	756	1.11	258.78	254	11	46.3		AC-228
0	143.62	101	496	0.85	286.21	283	7	75.4		U-235
0	185.97*	319	664	1.51	370.56	366	10	33.0		
0	209.38	136	664	1.13	417.18	413	11	75.5		AC-228
1	238.79*	1871	334	1.16	475.76	468	20	5.7	1.61E+00	PB-212
1	241.04	159	349	1.34	480.24	468	20	64.1		
1	242.04	279	343	1.32	482.24	468	20	28.2		PB-214
0	270.12	236	397	1.21	538.18	532	12	36.1		RA-223
										AC-228
0	295.26*	556	455	1.25	588.26	581	13	18.1		PB-214
0	300.35	78	324	1.05	598.40	594	9	86.2		PB-212
0	328.25	193	298	1.32	654.00	647	13	39.6		
0	338.44*	417	333	1.41	674.29	669	12	20.2		AC-228
0	352.16*	826	324	1.16	701.62	696	12	11.3		PB-214
0	463.29	84	282	1.49	923.11	919	15	89.6		AC-228
0	511.13*	175	235	1.74	1018.49	1011	16	46.0		TL-208
0	583.31*	570	162	1.36	1162.39	1156	13	12.6		TL-208
0	609.49*	672	122	1.35	1214.61	1209	14	10.7		BI-214
0	661.61	272	183	1.49	1318.55	1312	15	24.7		CS-137
0	727.52	178	100	1.70	1450.02	1442	18	30.3		BI-212
0	768.13	77	51	1.81	1531.04	1526	10	41.1		BI-214
0	795.04	104	69	1.38	1584.75	1578	12	37.4		AC-228
0	860.85	112	42	1.71	1716.06	1711	13	31.1		TL-208
0	911.12*	439	75	1.48	1816.40	1808	14	12.7		AC-228
2	964.54	64	50	1.82	1923.05	1916	24	47.8	4.20E+00	AC-228
2	968.81*	253	38	1.86	1931.56	1916	24	15.9		AC-228
0	1119.64*	169	42	1.59	2232.77	2226	14	22.9		BI-214
0	1237.56*	65	52	2.15	2468.34	2462	14	52.0		BI-214
0	1377.23*	50	8	1.99	2747.48	2740	16	39.7		BI-214
0	1459.71*	426	14	2.07	2912.37	2906	17	10.8		K-40
5	1625.95	9	0	1.51	3244.85	3243	14	58.6	7.00E-01	
5	1629.43	27	3	1.99	3251.81	3243	14	45.4		
0	1659.68	29	7	1.77	3312.33	3305	13	52.6		
0	1729.08	66	5	8.81	3451.20	3441	24	31.3		BI-214
0	1762.55*	97	15	2.00	3518.19	3511	17	28.9		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.84	159	635	1.09	179.13	170	21	1.47E-02	54.7	2.60E+00	
4	92.67	292	597	1.22	184.76	170	21	2.71E-02	32.0	2.70E+00	T
0	185.97	319	664	1.51	370.56	366	10	2.95E-02	33.0	3.21E+00	
1	241.04	159	349	1.34	480.24	468	20	1.47E-02	64.1	2.78E+00	
0	328.25	193	298	1.32	654.00	647	13	1.79E-02	39.6	2.20E+00	
5	1625.95	9	0	1.51	3244.85	3243	14	8.70E-04	58.6	6.22E-01	
5	1629.43	27	3	1.99	3251.81	3243	14	2.46E-03	45.4	6.21E-01	
0	1659.68	29	7	1.77	3312.33	3305	13	2.64E-03	52.6	6.13E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.118E+00	3.933E-01	1.753E-01	1.129E-02	17.783
CS-137	1.389E-01	3.776E-02	2.665E-02	3.032E-03	5.210
TL-208	2.633E-01	4.303E-02	2.249E-02	2.342E-03	11.705
BI-212	7.024E-01	2.261E-01	1.649E-01	1.803E-02	4.260
PB-212	8.118E-01	7.749E-02	3.824E-02	2.922E-03	21.228
BI-214	5.901E-01	8.888E-02	4.262E-02	4.538E-03	13.846
PB-214	5.577E-01	7.607E-02	4.749E-02	3.641E-03	11.744
RA-223	3.532E-01	1.314E-01	1.178E-01	1.048E-02	2.997
AC-228	9.418E-01	1.453E-01	6.280E-02	5.457E-03	14.998
U-235	1.435E-01	1.087E-01	1.487E-01	1.085E-02	0.965
NP-237	3.978E-01	1.623E-01	2.185E-01	2.746E-02	1.821
AM-243	1.426E-01	4.788E-02	4.528E-02	9.025E-03	3.150

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	5.623E-03		1.277E-02	2.172E-02	1.263E-03	0.259
RH-101	8.755E-04		1.498E-02	2.436E-02	3.802E-03	0.036
SB-125	3.072E-02		3.812E-02	6.748E-02	5.532E-03	0.455
EU-155	5.875E-02		5.414E-02	9.303E-02	8.711E-03	0.631
PO-209	3.370E+00		2.436E+00	4.677E+00	8.966E-01	0.721
BI-211	1.413E-01		4.108E-01	7.346E-01	7.191E-02	0.192
PA-233	-1.158E-02		2.641E-02	4.452E-02	3.586E-03	-0.260
PA-234M	6.490E-01		1.431E+00	2.638E+00	2.059E-01	0.246
TH-234	1.054E+00	+	3.536E-01	5.218E-01	5.219E-02	2.020
NP-236	2.518E-02		3.227E-02	5.284E-02	5.252E-03	0.477
NP-239	5.352E-03		9.088E-02	1.581E-01	2.134E-02	0.034
AM-241	4.164E-02		7.918E-02	1.375E-01	9.017E-03	0.303
CM-243	-9.143E-03		4.860E-02	8.081E-02	8.737E-03	-0.113
AM-246	3.651E-02		4.211E-02	8.004E-02	1.024E-02	0.456
CF-249	3.755E-03		1.660E-02	2.861E-02	2.741E-03	0.131

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-NOV-2007 21:40:11

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793405_GAMMA1_400MLSAN_17167.CNF

---- Sample Information ----

Sample ID	: OH207-7934-05		
Sample Title	: SB-CA-SS-2195-SD		
Sample Quantity	: 4.72400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17167		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 16-NOV-2007 18:39:52
Decay time	: 51 18:39:52.47	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.76

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.65904E+00 a3=6.59172E-01 a4=3.93115E-02
a5=1.38137E-01 a6=-8.70295E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: TM Mead Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.95*	484	596	1.19	149.32	142	17	19.4	1.66E+00	AM-243
										PB-214
										PB-212
3	77.18*	676	500	0.99	153.77	142	17	13.3		PB-214
										PB-212
2	87.21	277	597	1.15	173.86	162	31	31.7	2.13E+00	NP-237
										PB-214
										PB-212
2	89.93	231	579	1.16	179.31	162	31	37.6		
0	128.73	170	697	1.15	257.00	253	9	57.7		AC-228
0	186.29*	468	818	1.23	372.27	366	13	27.4		
0	209.79	222	730	1.16	419.31	413	12	50.9		AC-228
2	238.56*	2082	364	1.10	476.93	470	22	5.4	1.19E+00	PB-212
2	240.83	229	364	1.25	481.46	470	22	41.4		
2	241.87	293	269	1.07	483.55	470	22	23.8		PB-214
0	270.21	254	408	1.43	540.31	535	11	33.2		RA-223
										AC-228
0	277.18	64	292	1.12	554.26	552	7	91.7		TL-208
0	295.11*	663	384	1.19	590.15	584	12	14.2		PB-214
0	300.27	195	293	1.17	600.48	596	11	37.2		PB-212
0	327.82	128	244	1.06	655.64	652	8	45.7		
0	338.31*	472	283	1.20	676.66	672	12	17.1		AC-228
0	351.74*	1093	303	1.24	703.54	698	12	8.9		PB-214
0	408.86	48	182	1.23	817.92	815	8	100.5		AC-228
0	418.29	37	114	1.26	836.79	834	6	96.7		
0	462.75	103	191	1.05	925.82	922	10	53.6		AC-228
0	510.56*	261	249	1.57	1021.54	1014	15	31.5		TL-208
0	582.76*	746	122	1.44	1166.08	1159	15	9.8		TL-208
0	608.97*	810	127	1.40	1218.57	1214	11	8.9		BI-214
0	726.79*	221	120	1.26	1454.44	1448	13	24.6		BI-212
0	767.69	89	123	1.35	1536.33	1529	12	54.2		BI-214
1	785.51	64	54	1.76	1572.01	1564	40	53.0	1.86E+00	BI-212
1	794.62	116	51	1.76	1590.23	1564	40	31.7		AC-228
0	860.14	100	64	1.90	1721.41	1717	12	37.1		TL-208
0	910.77*	505	82	1.68	1822.76	1817	13	11.7		AC-228
0	933.95	30	73	1.28	1869.17	1862	10	113.1		BI-214
2	964.19	111	55	2.06	1929.71	1921	22	32.5	1.56E+00	AC-228
2	968.37*	336	37	1.71	1938.08	1921	22	13.2		AC-228
0	1119.65*	175	72	1.42	2240.90	2235	13	25.2		BI-214
0	1237.79	84	85	2.59	2477.40	2470	16	53.5		BI-214
0	1378.28	66	59	3.47	2758.60	2745	27	63.5		BI-214
0	1459.92*	896	30	2.21	2922.01	2916	18	7.4		K-40
0	1728.95	30	13	2.17	3460.46	3449	17	66.3		BI-214
0	1763.23*	165	13	2.36	3529.06	3520	22	19.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.93	231	579	1.16	179.31	162	31	2.13E-02	37.6	2.33E+00	
0	186.29	468	818	1.23	372.27	366	13	4.33E-02	27.4	3.03E+00	
2	240.83	229	364	1.25	481.46	470	22	2.12E-02	41.4	2.64E+00	
0	327.82	128	244	1.06	655.64	652	8	1.19E-02	45.7	2.11E+00	
0	418.29	37	114	1.26	836.79	834	6	3.45E-03	96.7	1.73E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	6.293E+00	6.316E-01	1.668E-01	1.138E-02	37.741
TL-208	3.510E-01	4.931E-02	2.467E-02	2.476E-03	14.230
BI-212	8.768E-01	2.318E-01	2.010E-01	1.934E-02	4.362
PB-212	9.585E-01	9.024E-02	4.204E-02	3.244E-03	22.800
BI-214	7.219E-01	9.777E-02	5.111E-02	5.206E-03	14.125
PB-214	7.741E-01	9.193E-02	5.016E-02	3.958E-03	15.431
RA-223	4.020E-01	1.385E-01	1.293E-01	1.190E-02	3.109
AC-228	1.067E+00	1.383E-01	9.797E-02	5.414E-03	10.887
NP-237	5.401E-01	1.881E-01	2.042E-01	2.953E-02	2.645
AM-243	2.252E-01	6.433E-02	5.008E-02	1.051E-02	4.497

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.360E-02		1.593E-02	2.206E-02	1.439E-03	-0.617
RH-101	1.353E-04		1.594E-02	2.631E-02	4.081E-03	0.005
SB-125	-2.840E-02		4.105E-02	6.763E-02	5.546E-03	-0.420
CS-137	1.898E-02		1.661E-02	3.088E-02	3.318E-03	0.615
EU-155	4.923E-02		5.886E-02	1.017E-01	1.010E-02	0.484
PO-209	-3.029E+00		2.982E+00	4.726E+00	8.459E-01	-0.641
BI-211	-3.717E-01		4.355E-01	7.167E-01	5.222E-02	-0.519
PA-233	1.729E-02		2.679E-02	4.770E-02	4.006E-03	0.362
PA-234M	1.808E+00		1.786E+00	3.338E+00	1.919E-01	0.542
TH-234	1.404E+00		3.509E-01	5.907E-01	6.892E-02	2.376
U-235	2.746E-04		1.031E-01	1.716E-01	1.198E-02	0.002
NP-236	2.781E-02		3.730E-02	5.802E-02	6.374E-03	0.479
NP-239	-5.094E-02		1.069E-01	1.708E-01	2.304E-02	-0.298
AM-241	-7.169E-02		9.155E-02	1.547E-01	1.230E-02	-0.463
CM-243	2.365E-02		5.238E-02	8.988E-02	1.024E-02	0.263
AM-246	-1.049E-02		5.364E-02	9.133E-02	1.124E-02	-0.115
CF-249	-2.780E-03		1.730E-02	2.951E-02	2.847E-03	-0.094

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-NOV-2007 21:41:25

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793406_GAMMA2_400MLSAN_17168.CNF

---- Sample Information ----

Sample ID	: OH207-7934-06
Sample Title	: SB-CA-SS-2196-SD
Sample Quantity	: 4.84800E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17168

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 16-NOV-2007 18:41:06
Decay time	: 51 18:41:06.93	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.61

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.68491E+00 a3=7.34327E-01 a4=7.12916E-02
a5=8.21331E-02 a6=-7.02143E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.84	544	788	1.13	149.26	142	17	19.4	2.39E+00	AM-243
										PB-214
										PB-212
2	77.03	767	658	1.02	153.63	142	17	12.9		PB-214
										PB-212
0	87.07*	271	801	1.29	173.62	171	7	36.9		NP-237
										PB-214
										PB-212
4	90.04	171	680	0.97	179.54	177	12	50.1	1.25E+00	
4	92.73*	343	775	1.21	184.89	177	12	30.1		
0	129.02	148	891	1.10	257.15	253	9	75.0		AC-228
0	186.17*	448	966	1.30	370.96	364	14	31.4		
0	209.26	278	630	0.93	416.94	412	10	35.9		AC-228
3	238.77*	2093	508	1.10	475.71	471	16	5.6	5.26E+00	PB-212
3	241.31	294	440	1.26	480.78	471	16	33.4		
3	242.46	196	363	1.16	483.07	471	16	41.3		PB-214
1	269.96	134	321	1.38	537.85	533	12	51.7	2.50E+00	RA-223
										AC-228
1	271.04	114	272	1.25	540.00	533	12	55.2		
0	277.51	49	278	0.73	552.90	550	6	110.6		TL-208
0	295.35*	647	370	1.19	588.44	584	9	13.4		PB-214
0	300.56	150	328	1.20	598.82	595	8	45.0		PB-212
0	328.39	119	329	1.37	654.27	649	10	60.1		
0	338.71*	450	395	1.16	674.82	670	12	20.4		AC-228
0	352.07*	1266	336	1.30	701.45	694	14	8.4		PB-214
0	409.87	49	254	0.83	816.64	812	10	123.5		AC-228
0	463.18	172	255	1.40	922.88	915	14	42.4		AC-228
0	510.79*	251	281	1.84	1017.81	1010	18	36.0		TL-208
0	583.45*	747	184	1.38	1162.68	1157	14	10.9		TL-208
0	609.41*	860	186	1.68	1214.44	1207	14	9.7		BI-214
0	661.71	312	143	1.73	1318.75	1314	10	18.3		CS-137
0	727.49	169	155	1.54	1449.98	1442	16	36.3		BI-212
0	768.05	106	114	1.50	1530.89	1524	12	44.8		BI-214
0	785.66	62	75	1.44	1566.03	1560	10	58.0		BI-212
0	795.10	111	85	2.20	1584.85	1579	17	43.3		AC-228
0	860.87	103	89	1.33	1716.11	1708	16	46.8		TL-208
0	911.11*	514	99	1.77	1816.38	1809	17	12.6		AC-228
0	934.46	32	88	1.14	1863.01	1859	11	116.5		BI-214
1	964.19	90	54	1.93	1922.35	1918	23	36.0	2.01E+00	AC-228
1	968.89*	288	45	1.93	1931.72	1918	23	15.8		AC-228
0	1120.35*	203	96	2.15	2234.19	2224	21	28.6		BI-214
0	1238.33*	78	90	2.36	2469.88	2463	18	62.5		BI-214
0	1376.45*	46	39	1.82	2745.91	2740	12	62.8		BI-214
0	1406.97	49	23	1.86	2806.94	2800	13	49.0		BI-214
0	1459.58*	806	32	1.99	2912.13	2904	16	7.9		K-40
0	1661.88	32	15	0.73	3316.74	3310	19	67.2		
0	1677.87	15	2	2.32	3348.73	3345	8	60.0		
0	1727.42	55	14	1.37	3447.89	3440	14	39.6		BI-214
0	1762.48*	162	9	2.16	3518.06	3509	18	18.5		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	90.04	171	680	0.97	179.54	177	12	1.58E-02	50.1	2.61E+00	
4	92.73	343	775	1.21	184.89	177	12	3.18E-02	30.1	2.70E+00	T
0	186.17	448	966	1.30	370.96	364	14	4.15E-02	31.4	3.21E+00	
3	241.31	294	440	1.26	480.78	471	16	2.72E-02	33.4	2.78E+00	
1	271.04	114	272	1.25	540.00	533	12	1.05E-02	55.2	2.56E+00	
0	328.39	119	329	1.37	654.27	649	10	1.10E-02	60.1	2.20E+00	
0	1661.88	32	15	0.73	3316.74	3310	19	2.95E-03	67.2	6.12E-01	
0	1677.87	15	2	2.32	3348.73	3345	8	1.41E-03	60.0	6.07E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.782E+00	5.880E-01	2.143E-01	1.379E-02	26.982
CS-137	1.561E-01	3.358E-02	2.958E-02	3.366E-03	5.277
TL-208	3.384E-01	5.111E-02	2.528E-02	2.633E-03	13.387
BI-212	6.568E-01	2.493E-01	1.848E-01	2.020E-02	3.554
PB-212	8.908E-01	8.450E-02	4.452E-02	3.402E-03	20.010
BI-214	7.406E-01	1.067E-01	5.051E-02	5.378E-03	14.662
PB-214	8.376E-01	9.519E-02	4.912E-02	3.767E-03	17.051
RA-223	1.966E-01	1.031E-01	1.256E-01	1.117E-02	1.565
AC-228	1.081E+00	1.657E-01	8.262E-02	7.180E-03	13.085
NP-237	4.553E-01	1.774E-01	2.205E-01	2.771E-02	2.064
AM-243	2.114E-01	5.877E-02	4.666E-02	9.302E-03	4.531

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.358E-02		1.546E-02	2.142E-02	1.246E-03	0.634
RH-101	1.183E-02		1.643E-02	2.705E-02	4.223E-03	0.438
SB-125	1.763E-03		4.063E-02	6.899E-02	5.656E-03	0.026
EU-155	4.386E-02		5.692E-02	9.682E-02	9.065E-03	0.453
PO-209	-7.469E-01		2.982E+00	5.079E+00	9.737E-01	-0.147
BI-211	-9.305E-02		4.245E-01	7.277E-01	7.123E-02	-0.128
PA-233	1.495E-02		2.697E-02	4.727E-02	3.808E-03	0.316
PA-234M	1.502E+00		1.821E+00	3.340E+00	2.607E-01	0.450
TH-234	1.215E+00	+	3.848E-01	5.585E-01	5.586E-02	2.175
U-235	9.906E-02		1.011E-01	1.705E-01	1.244E-02	0.581
NP-236	5.161E-02		3.343E-02	5.768E-02	5.734E-03	0.895
NP-239	4.736E-02		9.927E-02	1.740E-01	2.348E-02	0.272
AM-241	-2.219E-02		8.345E-02	1.413E-01	9.271E-03	-0.157
CM-243	1.539E-02		5.099E-02	8.589E-02	9.286E-03	0.179
AM-246	-1.133E-02		5.049E-02	8.550E-02	1.094E-02	-0.133
CF-249	7.012E-03		1.763E-02	3.048E-02	2.920E-03	0.230

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-NOV-2007 21:42:39

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793407_GAMMA3_400MLSAN_17169.CNF

---- Sample Information ----

Sample ID	: OH207-7934-07		
Sample Title	: SB-CA-SS-2197-SD		
Sample Quantity	: 5.01600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17169		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 16-NOV-2007 18:42:09
Decay time	: 51 18:42:09.02	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.14

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1

Nuclide Lib File	: SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File	: SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title	: SCHOFIELD BARRACKS
Use Variable Tol	: Yes
Variable Tol	: 1.1000

Reviewer's Signature: T M Moore Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.41*	121	560	1.87	103.18	98	11	80.8		
0	63.19*	189	847	1.25	140.38	136	10	62.1		TH-234
1	74.88*	752	1072	1.44	166.29	160	24	18.4	2.17E+00	AM-243
										PB-214
										PB-212
1	77.14*	1219	883	1.36	171.29	160	24	11.1		PB-214
										PB-212
0	84.17*	171	652	1.84	186.89	184	7	52.9		
0	87.25	391	765	1.46	193.71	191	7	25.4		NP-237
										PB-214
										PB-212
0	93.30*	231	1425	1.32	207.11	201	12	70.3		TH-234
0	186.06*	386	699	1.52	412.74	407	11	29.5		
0	209.56	234	672	1.46	464.82	459	12	46.2		AC-228
2	238.70*	2145	401	1.43	529.42	524	18	5.6	1.20E+00	PB-212
2	241.56	543	494	1.85	535.74	524	18	22.2		PB-214
0	270.51	288	570	1.45	599.90	591	17	39.7		RA-223
										AC-228
0	295.37*	764	365	1.29	655.01	649	13	12.7		PB-214
0	300.00	131	257	2.16	665.29	662	9	47.4		PB-212
0	328.40	131	315	1.13	728.22	723	12	57.1		
0	338.34	392	303	1.49	750.26	745	12	20.4		AC-228
0	352.07*	1002	344	1.47	780.68	775	13	10.0		PB-214
0	462.69	140	250	1.75	1025.87	1019	16	53.1		AC-228
0	510.53*	238	262	2.04	1131.91	1123	19	37.6		TL-208
0	583.13*	658	176	1.74	1292.82	1286	16	12.1		TL-208
0	609.34*	765	188	1.44	1350.91	1343	15	10.7		BI-214
0	661.30	59	105	0.86	1466.05	1461	11	72.2		CS-137
0	727.30*	142	135	1.57	1612.33	1604	15	39.8		BI-212
0	794.55	76	80	2.58	1761.38	1756	11	50.7		AC-228
0	860.77	65	84	1.31	1908.14	1901	13	63.3		TL-208
0	911.33*	393	133	1.87	2020.20	2013	18	17.2		AC-228
1	964.73	77	85	2.22	2138.55	2131	39	57.3	1.65E+00	AC-228
1	969.07	260	62	1.99	2148.16	2131	39	17.8		AC-228
0	1120.60*	192	80	2.01	2483.97	2473	20	27.2		BI-214
0	1238.28	99	51	1.70	2744.77	2738	16	38.4		BI-214
0	1378.59	54	47	1.22	3055.70	3045	21	72.1		BI-214
0	1460.91*	775	64	2.12	3238.11	3225	26	9.3		K-40
0	1620.42	23	24	1.07	3591.59	3581	16	104.0		BI-212
0	1729.51	31	13	0.53	3833.31	3823	18	66.0		BI-214
0	1764.63*	119	31	2.72	3911.13	3901	21	30.4		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.41	121	560	1.87	103.18	98	11	1.12E-02	80.8	2.76E+00	
0	84.17	171	652	1.84	186.89	184	7	1.58E-02	52.9	3.55E+00	
0	186.06	386	699	1.52	412.74	407	11	3.57E-02	29.5	2.81E+00	
0	328.40	131	315	1.13	728.22	723	12	1.21E-02	57.1	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	6.505E+00	7.140E-01	2.277E-01	1.340E-02	28.567
CS-137	3.294E-02	2.391E-02	3.212E-02	2.312E-03	1.026
TL-208	3.321E-01	4.820E-02	2.965E-02	2.360E-03	11.201
BI-212	6.180E-01	2.500E-01	2.186E-01	1.586E-02	2.828
PB-212	1.028E+00	9.590E-02	4.957E-02	3.705E-03	20.747
BI-214	7.346E-01	9.675E-02	5.575E-02	4.248E-03	13.176
PB-214	7.420E-01	9.511E-02	6.147E-02	4.890E-03	12.071
RA-223	4.764E-01	1.939E-01	1.505E-01	1.333E-02	3.165
AC-228	9.458E-01	1.756E-01	1.032E-01	7.255E-03	9.167
TH-234	6.010E-01	4.257E-01	3.877E-01	3.471E-02	1.550
NP-237	4.431E-01	1.231E-01	1.580E-01	1.761E-02	2.805
AM-243	1.574E-01	4.184E-02	3.026E-02	5.820E-03	5.201

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-2.366E-03		1.856E-02	2.871E-02	1.522E-03	-0.082
RH-101	1.031E-02		1.821E-02	3.083E-02	4.759E-03	0.334
SB-125	1.722E-02		4.575E-02	8.081E-02	6.681E-03	0.213
EU-155	4.155E-02		5.256E-02	9.175E-02	8.627E-03	0.453
PO-209	3.674E-01		3.319E+00	5.937E+00	1.094E+00	0.062
BI-211	3.499E-02		5.452E-01	9.305E-01	6.702E-02	0.038
PA-233	1.930E-02		3.206E-02	5.497E-02	4.486E-03	0.351
PA-234M	2.323E+00		2.205E+00	4.146E+00	2.831E-01	0.560
U-235	1.613E-01		1.113E-01	1.940E-01	1.440E-02	0.831
NP-236	4.757E-02		3.440E-02	5.086E-02	4.854E-03	0.935
NP-239	-5.761E-02		1.229E-01	2.034E-01	2.721E-02	-0.283
AM-241	3.501E-02		3.526E-02	5.290E-02	3.348E-03	0.662
CM-243	-1.360E-02		4.691E-02	8.010E-02	8.631E-03	-0.170
AM-246	4.042E-02		6.175E-02	1.138E-01	1.437E-02	0.355
CF-249	3.781E-03		2.015E-02	3.531E-02	3.517E-03	0.107

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-NOV-2007 01:02:03

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793408_GAMMA3_400MLSAN_17172.CNF

---- Sample Information ----

Sample ID	: OH207-7934-08		
Sample Title	: SB-CA-SS-2198-SD		
Sample Quantity	: 4.57300E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17172		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 16-NOV-2007 22:01:48
Decay time	: 51 22:01:48.22	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.15

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Mead Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.39*	228	895	1.58	140.83	136	9	51.7		TH-234
2	74.92*	959	1099	1.38	166.37	161	15	14.5	1.44E+00	AM-243
										PB-214
										PB-212
2	77.14*	1586	953	1.31	171.30	161	15	9.2		PB-214
										PB-212
2	87.34	588	1066	1.62	193.92	181	32	23.2	1.93E+00	NP-237
										PB-214
										PB-212
2	90.01	418	742	1.27	199.82	181	32	25.1		
2	92.83*	532	876	1.52	206.07	181	32	25.0		TH-234
0	129.24	196	946	1.43	286.77	283	12	64.1		AC-228
0	185.99*	338	640	1.39	412.58	408	10	31.2		
0	209.49	307	564	1.45	464.65	460	12	33.2		AC-228
3	238.70*	2574	368	1.52	529.41	520	30	4.9	2.49E+00	PB-212
3	241.63	516	512	2.03	535.89	520	30	26.8		PB-214
0	270.03	235	489	1.56	598.86	594	15	43.0		RA-223
										AC-228
0	277.43*	90	274	1.36	615.26	612	8	68.1		TL-208
0	295.28*	553	391	1.39	654.81	649	13	17.1		PB-214
0	300.10	134	267	1.30	665.50	661	9	47.4		PB-212
0	328.02	214	298	1.85	727.39	721	13	36.0		
0	338.57	573	391	1.44	750.78	744	16	17.6		AC-228
0	352.02*	962	372	1.46	780.59	773	17	11.3		PB-214
0	409.46	75	199	1.60	907.90	902	10	74.5		AC-228
0	463.04	100	203	1.70	1026.65	1021	12	60.4		AC-228
0	510.57*	266	223	2.29	1132.00	1125	16	30.4		TL-208
0	583.16*	717	191	1.55	1292.88	1287	13	11.1		TL-208
0	609.08*	712	158	1.77	1350.33	1342	15	10.9		BI-214
0	702.73	89	200	3.71	1557.88	1545	24	86.9		
0	727.30*	156	95	1.83	1612.35	1607	11	29.4		BI-212
0	795.26	80	89	0.97	1762.97	1756	12	52.7		AC-228
0	911.12*	525	98	1.90	2019.72	2012	20	12.8		AC-228
1	964.50	114	69	2.21	2138.03	2131	25	37.0	8.72E-01	AC-228
1	968.94	330	55	2.22	2147.88	2131	25	15.1		AC-228
0	1120.15*	213	40	1.39	2482.98	2474	18	19.8		BI-214
0	1460.70*	639	13	2.46	3237.66	3225	25	8.6		K-40
3	1587.82	68	17	3.05	3519.33	3511	25	33.5	1.24E+00	AC-228
3	1592.30	45	4	2.66	3529.26	3511	25	44.1		
0	1621.04	31	19	3.39	3592.96	3585	18	73.2		BI-212
0	1630.77	22	6	3.34	3614.51	3608	12	60.6		
0	1730.86	20	26	0.57	3836.29	3828	13	112.9		BI-214
0	1764.45*	102	16	2.30	3910.73	3902	16	27.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	90.01	418	742	1.27	199.82	181	32	3.87E-02	25.1	3.55E+00	
0	185.99	338	640	1.39	412.58	408	10	3.13E-02	31.2	2.81E+00	
0	328.02	214	298	1.85	727.39	721	13	1.98E-02	36.0	1.89E+00	
0	702.73	89	200	3.71	1557.88	1545	24	8.29E-03	86.9	9.98E-01	
3	1592.30	45	4	2.66	3529.26	3511	25	4.15E-03	44.1	5.25E-01	
0	1630.77	22	6	3.34	3614.51	3608	12	2.07E-03	60.6	5.17E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.881E+00	6.137E-01	2.364E-01	1.391E-02	24.880
TL-208	3.969E-01	5.407E-02	3.556E-02	2.831E-03	11.160
BI-212	7.465E-01	2.263E-01	2.610E-01	1.895E-02	2.860
PB-212	1.354E+00	1.213E-01	5.263E-02	3.934E-03	25.730
BI-214	7.499E-01	9.976E-02	6.107E-02	4.653E-03	12.280
PB-214	7.822E-01	1.080E-01	6.236E-02	4.961E-03	12.542
RA-223	4.253E-01	1.865E-01	1.753E-01	1.552E-02	2.425
AC-228	1.386E+00	2.022E-01	1.152E-01	8.098E-03	12.037
TH-234	1.515E+00	4.024E-01	3.970E-01	3.555E-02	3.817
NP-237	7.313E-01	1.880E-01	1.725E-01	1.923E-02	4.239
AM-243	2.202E-01	5.300E-02	3.473E-02	6.679E-03	6.340

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-3.225E-03		2.101E-02	3.071E-02	1.629E-03	-0.105
RH-101	-7.661E-03		2.007E-02	3.317E-02	5.120E-03	-0.231
SB-125	-1.748E-02		5.140E-02	8.788E-02	7.265E-03	-0.199
CS-137	-1.397E-02		2.189E-02	3.606E-02	2.596E-03	-0.387
EU-155	7.433E-02		5.826E-02	1.023E-01	9.622E-03	0.726
PO-209	1.348E-01		3.556E+00	6.340E+00	1.168E+00	0.021
BI-211	-1.457E-01		5.862E-01	9.805E-01	7.062E-02	-0.149
PA-233	1.706E-02		3.352E-02	5.744E-02	4.688E-03	0.297
PA-234M	-7.382E-01		2.266E+00	3.928E+00	2.682E-01	-0.188
U-235	2.422E-02		1.197E-01	2.039E-01	1.514E-02	0.119
NP-236	7.880E-03		3.826E-02	5.463E-02	5.213E-03	0.144
NP-239	4.145E-03		1.251E-01	2.111E-01	2.824E-02	0.020
AM-241	8.844E-03		4.294E-02	6.240E-02	3.949E-03	0.142
CM-243	5.034E-03		5.284E-02	9.103E-02	9.810E-03	0.055
AM-246	4.762E-02		6.479E-02	1.206E-01	1.523E-02	0.395
CF-249	1.019E-02		2.163E-02	3.834E-02	3.818E-03	0.266

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 09:46:13

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793409_GAMMA2_400MLSAN_17173.CNF

---- Sample Information ----

Sample ID	: OH207-7934-09
Sample Title	: SB-CA-SS-2199-SD
Sample Quantity	: 4.45700E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17173

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 17-NOV-2007 09:23:47
Decay time	: 52 09:23:47.12	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.61

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Wilson Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.15*	158	730	1.17	126.00	122	8	62.4		TH-234
2	73.06	102	567	1.17	145.72	143	16	71.7	1.73E+00	
2	74.82	609	784	1.16	149.23	143	16	17.6		AM-243
										PB-214
										PB-212
2	77.06	920	663	1.08	153.69	143	16	11.5		PB-214
										PB-212
5	87.20*	434	766	1.35	173.88	162	30	24.2	2.57E+00	NP-237
										PB-214
										PB-212
5	89.86	314	643	1.23	179.16	162	30	29.7		
5	92.85*	447	691	1.41	185.12	162	30	24.0		TH-234
0	128.94	171	789	1.03	256.99	253	9	61.4		AC-228
0	186.02*	332	817	1.26	370.65	366	10	34.8		
0	209.24	186	557	0.97	416.89	413	9	48.2		AC-228
6	238.75*	2358	361	1.17	475.68	468	21	5.0	2.13E+00	PB-212
6	241.68	565	546	1.95	481.52	468	21	23.2		PB-214
0	270.51	206	439	1.26	538.95	534	10	40.4		RA-223
										AC-228
3	295.38*	670	246	1.14	588.50	583	22	11.0	1.94E+00	PB-214
3	300.23	209	326	1.71	598.17	583	22	36.2		PB-212
0	328.43	173	394	1.60	654.35	648	12	48.4		
0	338.71*	539	424	1.43	674.82	669	14	18.5		AC-228
0	352.05*	1065	384	1.26	701.42	695	13	9.8		PB-214
0	463.34	163	201	1.42	923.21	918	11	37.2		AC-228
0	510.67*	274	276	1.61	1017.57	1010	17	32.3		TL-208
0	583.34*	753	158	1.44	1162.46	1157	12	10.0		TL-208
0	609.35*	935	196	1.41	1214.33	1206	16	9.5		BI-214
0	661.63	160	191	1.25	1318.58	1313	13	38.7		CS-137
0	727.51	150	128	1.46	1450.01	1442	12	34.6		BI-212
0	768.46	105	81	1.71	1531.70	1525	12	39.9		BI-214
0	772.75	35	53	1.05	1540.27	1536	8	78.4		
0	785.40	80	49	1.74	1565.51	1561	9	39.1		BI-212
0	794.65	105	91	1.73	1583.96	1577	13	42.2		AC-228
0	835.72	40	100	1.22	1665.92	1662	12	102.3		
0	860.60	84	70	1.76	1715.58	1708	12	45.0		TL-208
0	911.04*	529	78	1.60	1816.24	1810	13	11.2		AC-228
0	934.31	38	81	1.27	1862.70	1858	13	101.9		BI-214
2	964.73	118	50	2.12	1923.42	1917	21	32.5	1.33E+00	AC-228
2	968.82*	334	40	2.00	1931.58	1917	21	13.8		AC-228
0	1120.08*	198	50	1.64	2233.64	2228	14	21.4		BI-214
0	1237.96*	63	63	2.44	2469.14	2462	11	55.7		BI-214
3	1375.99*	31	22	1.96	2745.00	2741	11	69.8	3.45E+00	
3	1377.49*	19	14	2.10	2747.99	2741	11	111.6		BI-214
0	1459.73*	573	46	1.95	2912.42	2904	19	10.4		K-40
0	1586.99*	52	33	0.86	3166.92	3159	13	53.3		AC-228
0	1727.80	41	19	1.49	3448.65	3443	11	51.9		BI-214
0	1762.53*	154	32	2.44	3518.14	3508	18	23.9		BI-214
0	1845.71	43	7	2.28	3684.65	3677	13	39.3		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	73.06	102	567	1.17	145.72	143	16	9.49E-03	71.7	1.87E+00	
5	89.86	314	643	1.23	179.16	162	30	2.90E-02	29.7	2.60E+00	
0	186.02	332	817	1.26	370.65	366	10	3.07E-02	34.8	3.21E+00	
0	328.43	173	394	1.60	654.35	648	12	1.60E-02	48.4	2.20E+00	
0	772.75	35	53	1.05	1540.27	1536	8	3.27E-03	78.4	1.08E+00	
0	835.72	40	100	1.22	1665.92	1662	12	3.75E-03	****	1.01E+00	
3	1375.99	31	22	1.96	2745.00	2741	11	2.90E-03	69.8	7.05E-01	
0	1845.71	43	7	2.28	3684.65	3677	13	3.98E-03	39.3	5.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.476E+00	5.466E-01	2.161E-01	1.391E-02	20.715
CS-137	8.721E-02	3.521E-02	2.984E-02	3.395E-03	2.922
TL-208	3.710E-01	5.364E-02	2.804E-02	2.920E-03	13.233
BI-212	6.319E-01	2.296E-01	2.295E-01	2.509E-02	2.754
PB-212	1.091E+00	9.949E-02	4.392E-02	3.356E-03	24.849
BI-214	8.760E-01	1.248E-01	5.204E-02	5.541E-03	16.833
PB-214	7.664E-01	9.552E-02	5.234E-02	4.013E-03	14.643
RA-223	3.291E-01	1.361E-01	1.409E-01	1.253E-02	2.336
AC-228	1.212E+00	1.722E-01	9.194E-02	7.989E-03	13.184
TH-234	1.718E+00	4.465E-01	4.490E-01	4.491E-02	3.827
NP-237	7.932E-01	2.162E-01	2.122E-01	2.667E-02	3.738
AM-243	2.574E-01	6.840E-02	5.274E-02	1.051E-02	4.879

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.574E-02		1.498E-02	2.452E-02	1.355E-03	-0.642
RH-101	-1.004E-02		1.736E-02	2.745E-02	4.286E-03	-0.366
SB-125	4.713E-03		4.599E-02	7.819E-02	6.411E-03	0.060
EU-155	1.226E-01		6.423E-02	1.110E-01	1.040E-02	1.104
PO-209	-2.714E-01		2.864E+00	4.975E+00	9.539E-01	-0.055
BI-211	5.401E-01		4.511E-01	7.721E-01	7.558E-02	0.699
PA-233	-1.572E-02		2.819E-02	4.725E-02	3.806E-03	-0.333
PA-234M	6.918E-01		1.851E+00	3.317E+00	2.589E-01	0.209
U-235	1.233E-01		1.090E-01	1.844E-01	1.346E-02	0.668
NP-236	4.945E-02		3.916E-02	6.097E-02	6.061E-03	0.811
NP-239	-2.023E-02		1.040E-01	1.791E-01	2.417E-02	-0.113
AM-241	-5.958E-03		1.033E-01	1.577E-01	1.035E-02	-0.038
CM-243	1.490E-02		5.729E-02	9.629E-02	1.041E-02	0.155
AM-246	2.200E-02		4.911E-02	8.914E-02	1.140E-02	0.247
CF-249	1.549E-02		1.877E-02	3.304E-02	3.165E-03	0.469

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-NOV-2007 12:25:31

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793410_GAMMA3_400MLSAN_17174.CNF

---- Sample Information ----

Sample ID	: OH207-7934-10		
Sample Title	: SB-CA-SS-2200-SD		
Sample Quantity	: 4.85200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17174		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 17-NOV-2007 09:25:14
Decay time	: 52 09:25:14.03	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.09

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.47*	150	423	1.27	103.31	99	9	55.0		
0	62.72*	222	880	1.44	139.33	133	11	55.8		TH-234
1	74.88*	703	995	1.44	166.29	160	17	19.0	8.36E-01	AM-243
										PB-214
										PB-212
1	77.12*	1172	759	1.27	171.24	160	17	10.6		PB-214
										PB-212
3	87.26	432	946	1.51	193.72	183	30	28.1	2.99E+00	NP-237
										PB-214
										PB-212
3	89.82	297	1083	1.78	199.40	183	30	47.7		
3	92.85*	445	835	1.54	206.11	183	30	28.8		TH-234
0	186.03*	386	764	1.56	412.67	406	13	32.1		
0	209.04	213	473	1.35	463.67	460	10	40.4		AC-228
3	238.66*	1928	440	1.40	529.32	524	32	6.1	1.47E+00	PB-212
3	241.62	464	538	1.96	535.88	524	32	28.6		PB-214
0	269.95	143	401	1.64	598.66	594	12	58.4		RA-223
										AC-228
0	277.41*	85	333	1.73	615.22	610	11	87.0		TL-208
1	295.35*	576	312	1.47	654.96	647	27	14.3	9.45E-01	PB-214
1	300.19	123	296	1.47	665.70	647	27	55.6		PB-212
0	338.50	359	335	1.46	750.62	744	12	23.0		AC-228
0	351.99*	991	420	1.54	780.51	774	15	11.1		PB-214
0	462.77	135	150	1.94	1026.05	1020	14	42.2		AC-228
0	510.69*	216	251	1.81	1132.25	1124	17	39.3		TL-208
0	583.20*	639	135	1.77	1292.96	1286	14	11.3		TL-208
0	609.28*	785	131	1.64	1350.76	1344	14	9.6		BI-214
0	661.52	133	97	1.68	1466.56	1461	12	34.3		CS-137
0	727.26*	153	124	1.69	1612.24	1602	19	38.6		BI-212
0	767.51	51	153	1.14	1701.47	1699	14	105.3		BI-214
0	795.60	57	102	1.93	1763.72	1754	16	84.6		AC-228
0	862.39	163	70	2.68	1911.74	1901	26	33.5		TL-208
0	911.06*	446	75	2.03	2019.59	2012	17	13.1		AC-228
2	964.84	100	88	2.44	2138.78	2127	30	49.1	1.28E+00	AC-228
2	968.98	250	77	2.07	2147.96	2127	30	19.8		AC-228
0	1120.16*	203	61	1.87	2483.01	2474	20	23.6		BI-214
0	1237.72	81	41	1.80	2743.51	2736	15	41.2		BI-214
0	1379.51	66	68	3.86	3057.73	3044	30	77.0		BI-214
0	1460.63*	578	34	1.90	3237.49	3227	20	9.9		K-40
0	1764.67*	113	13	1.55	3911.22	3903	18	24.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.47	150	423	1.27	103.31	99	9	1.39E-02	55.0	2.76E+00	
3	89.82	297	1083	1.78	199.40	183	30	2.75E-02	47.7	3.55E+00	
0	186.03	386	764	1.56	412.67	406	13	3.57E-02	32.1	2.81E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.008E+00	5.763E-01	2.549E-01	1.500E-02	19.649
CS-137	7.686E-02	2.692E-02	3.213E-02	2.313E-03	2.392
TL-208	3.332E-01	4.594E-02	2.932E-02	2.334E-03	11.364
BI-212	6.908E-01	2.715E-01	2.244E-01	1.629E-02	3.078
PB-212	9.557E-01	9.218E-02	5.015E-02	3.749E-03	19.056
BI-214	7.792E-01	9.539E-02	5.783E-02	4.406E-03	13.473
PB-214	7.592E-01	1.039E-01	6.115E-02	4.865E-03	12.414
RA-223	2.440E-01	1.442E-01	1.458E-01	1.291E-02	1.674
AC-228	1.111E+00	1.652E-01	1.152E-01	8.097E-03	9.646
TH-234	1.196E+00	3.604E-01	3.602E-01	3.225E-02	3.321
NP-237	5.056E-01	1.526E-01	1.565E-01	1.744E-02	3.230
AM-243	1.522E-01	4.119E-02	3.054E-02	5.874E-03	4.983

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.201E-03		1.820E-02	2.816E-02	1.493E-03	-0.043
RH-101	-1.661E-03		1.853E-02	3.092E-02	4.773E-03	-0.054
SB-125	1.468E-02		4.715E-02	8.308E-02	6.868E-03	0.177
EU-155	4.217E-02		5.290E-02	9.245E-02	8.693E-03	0.456
PO-209	-1.295E+00		3.500E+00	6.034E+00	1.112E+00	-0.215
BI-211	-4.449E-01		5.570E-01	8.941E-01	6.439E-02	-0.498
PA-233	7.282E-03		3.379E-02	5.706E-02	4.656E-03	0.128
PA-234M	1.036E+00		2.087E+00	3.837E+00	2.620E-01	0.270
U-235	-5.976E-02		1.116E-01	1.866E-01	1.385E-02	-0.320
NP-236	1.380E-02		3.445E-02	4.959E-02	4.732E-03	0.278
NP-239	-1.803E-02		1.179E-01	1.976E-01	2.644E-02	-0.091
AM-241	6.625E-02		3.651E-02	5.621E-02	3.557E-03	1.179
CM-243	-1.944E-02		4.725E-02	8.043E-02	8.667E-03	-0.242
AM-246	5.037E-02		5.981E-02	1.124E-01	1.418E-02	0.448
CF-249	2.119E-02		1.964E-02	3.560E-02	3.546E-03	0.595

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-NOV-2007 15:22:39

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793411_GAMMA1_400MLSAN_17176.CNF

---- Sample Information ----

Sample ID	: OH207-7934-11		
Sample Title	: SB-CA-SS-2201-SD		
Sample Quantity	: 4.58000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17176		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 17-NOV-2007 12:22:17
Decay time	: 52 12:22:17.71	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.98

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Mooney Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.94*	518	732	1.12	149.30	143	16	19.6	7.80E-01	AM-243
										PB-214
										PB-212
2	77.21*	762	599	0.94	153.83	143	16	12.7		PB-214
										PB-212
4	87.32	370	638	1.22	174.08	164	27	25.0	1.48E+00	NP-237
										PB-214
										PB-212
4	90.02	309	626	1.20	179.50	164	27	29.2		
4	92.94*	382	703	1.32	185.34	164	27	27.5		
0	129.12	126	756	0.95	257.78	254	8	77.7		AC-228
0	185.94*	393	625	1.02	371.56	367	9	25.6		
0	209.31	241	590	1.31	418.35	414	9	38.5		AC-228
5	238.67*	2521	368	1.08	477.15	472	17	4.7	2.14E+00	PB-212
5	241.57	539	560	1.67	482.96	472	17	21.8		PB-214
0	270.19	283	548	1.28	540.26	534	13	36.1		RA-223
										AC-228
0	278.05	89	432	1.10	556.00	550	10	90.1		TL-208
3	295.25*	739	244	1.17	590.44	587	11	10.2	2.55E+00	PB-214
3	297.35	58	203	1.07	594.64	587	11	103.5		
0	300.41	196	298	1.11	600.77	597	9	34.9		PB-212
0	328.31	187	379	0.94	656.64	651	12	44.1		
0	338.29*	512	334	1.30	676.61	672	10	16.1		AC-228
0	351.93*	1203	446	1.22	703.93	697	14	9.5		PB-214
0	409.71	85	249	1.43	819.61	815	10	73.7		AC-228
0	462.84	163	245	1.25	925.99	920	12	41.6		AC-228
0	510.88*	347	256	1.53	1022.17	1015	16	25.1		TL-208
0	583.19*	787	220	1.38	1166.95	1160	15	11.0		TL-208
0	609.29*	940	150	1.46	1219.20	1212	13	8.5		BI-214
0	661.38	111	144	1.59	1323.49	1319	11	46.0		CS-137
0	665.53	41	77	0.67	1331.81	1329	7	78.2		
0	727.29*	212	95	1.24	1455.44	1452	11	22.8		BI-212
0	784.70	96	94	1.11	1570.37	1563	14	47.8		BI-212
0	794.93	96	88	1.97	1590.85	1585	11	42.9		AC-228
0	835.87	52	70	1.68	1672.82	1668	10	66.5		
0	860.73	82	99	1.27	1722.59	1717	13	54.3		TL-208
0	911.08*	643	98	1.57	1823.39	1815	15	10.4		AC-228
0	933.71	81	45	2.52	1868.68	1864	11	38.7		BI-214
1	964.67	100	52	1.87	1930.66	1926	20	34.0	1.53E+00	AC-228
1	968.82*	346	68	1.72	1938.97	1926	20	14.2		AC-228
0	1120.16*	203	58	1.80	2241.93	2235	13	21.1		BI-214
0	1239.39	67	122	1.88	2480.59	2473	19	82.9		BI-214
0	1379.24	34	70	0.74	2760.53	2751	13	109.1		BI-214
0	1407.54	53	12	2.45	2817.17	2813	10	37.1		BI-214
0	1460.62*	949	33	2.16	2923.41	2914	19	7.2		K-40
0	1587.86	54	24	2.19	3178.07	3171	12	45.4		AC-228
0	1729.67	43	11	2.86	3461.89	3457	10	42.8		BI-214
0	1764.36*	195	15	1.65	3531.32	3524	15	17.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	90.02	309	626	1.20	179.50	164	27	2.86E-02	29.2	2.33E+00	
4	92.94	382	703	1.32	185.34	164	27	3.54E-02	27.5	2.43E+00	T
0	185.94	393	625	1.02	371.56	367	9	3.64E-02	25.6	3.03E+00	
3	297.35	58	203	1.07	594.64	587	11	5.37E-03	****	2.27E+00	
0	328.31	187	379	0.94	656.64	651	12	1.73E-02	44.1	2.10E+00	
0	665.53	41	77	0.67	1331.81	1329	7	3.79E-03	78.2	1.21E+00	
0	835.87	52	70	1.68	1672.82	1668	10	4.80E-03	66.5	1.03E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	6.875E+00	6.808E-01	2.017E-01	1.377E-02	34.079
CS-137	5.882E-02	2.777E-02	2.933E-02	3.152E-03	2.005
TL-208	3.820E-01	5.680E-02	2.602E-02	2.611E-03	14.684
BI-212	8.666E-01	2.142E-01	1.964E-01	1.889E-02	4.412
PB-212	1.197E+00	1.080E-01	4.508E-02	3.479E-03	26.552
BI-214	8.648E-01	1.148E-01	4.826E-02	4.916E-03	17.917
PB-214	8.783E-01	1.084E-01	5.262E-02	4.152E-03	16.691
RA-223	4.612E-01	1.718E-01	1.403E-01	1.291E-02	3.287
AC-228	1.400E+00	1.652E-01	9.548E-02	5.277E-03	14.666
NP-237	7.428E-01	2.143E-01	2.226E-01	3.219E-02	3.336
AM-243	2.487E-01	7.142E-02	5.542E-02	1.163E-02	4.488

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	3.133E-03		1.656E-02	2.461E-02	1.606E-03	0.127
RH-101	5.343E-03		1.721E-02	2.860E-02	4.436E-03	0.187
SB-125	-3.051E-04		4.263E-02	7.293E-02	5.981E-03	-0.004
EU-155	2.818E-02		6.222E-02	1.065E-01	1.058E-02	0.265
PO-209	-3.729E-01		3.336E+00	5.761E+00	1.031E+00	-0.065
BI-211	4.772E-02		4.714E-01	7.272E-01	5.298E-02	0.066
PA-233	1.635E-02		2.956E-02	5.226E-02	4.388E-03	0.313
PA-234M	1.199E+00		1.960E+00	3.546E+00	2.038E-01	0.338
TH-234	1.595E+00	+	4.770E-01	6.312E-01	7.364E-02	2.527
U-235	2.749E-02		1.108E-01	1.854E-01	1.295E-02	0.148
NP-236	4.148E-04		3.837E-02	6.177E-02	6.786E-03	0.007
NP-239	1.940E-02		1.125E-01	1.844E-01	2.488E-02	0.105
AM-241	-5.288E-03		1.032E-01	1.785E-01	1.419E-02	-0.030
CM-243	-8.715E-03		5.687E-02	9.580E-02	1.092E-02	-0.091
AM-246	-2.702E-02		5.407E-02	8.959E-02	1.103E-02	-0.302
CF-249	9.975E-03		1.838E-02	3.230E-02	3.116E-03	0.309

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-NOV-2007 15:27:54

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793412_GAMMA2_400MLSAN_17177.CNF

---- Sample Information ----

Sample ID	: OH207-7934-12		
Sample Title	: SB-CA-SS-2202-SD		
Sample Quantity	: 3.87400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17177		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 17-NOV-2007 12:27:27
Decay time	: 52 12:27:27.78	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.36

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Woad Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.27*	177	758	0.90	126.23	122	9	58.8		TH-234
2	74.81	532	649	1.09	149.21	142	17	18.3	1.85E+00	AM-243
										PB-214
										PB-212
2	77.12	808	508	1.04	153.81	142	17	11.5		PB-214
										PB-212
0	87.09*	272	676	1.28	173.66	171	7	34.1		NP-237
										PB-214
										PB-212
6	90.01	237	365	1.07	179.46	177	14	25.2	3.95E+00	
6	93.05*	407	876	1.81	185.51	177	14	31.5		TH-234
0	128.93	163	501	1.06	256.97	253	7	48.3		AC-228
0	186.15*	266	612	1.14	370.92	366	10	38.0		
0	209.40	199	668	1.33	417.21	412	12	53.8		AC-228
2	238.77*	2034	324	1.14	475.72	470	17	5.4	3.12E+00	PB-212
2	241.08	176	323	1.24	480.33	470	17	46.6		
2	241.84	239	322	1.13	481.84	470	17	30.6		PB-214
1	269.55	54	268	1.38	537.05	533	12	116.9	1.05E+00	RA-223
1	270.64	156	265	1.38	539.20	533	12	40.5		AC-228
0	295.46*	397	279	1.11	588.66	584	10	19.0		PB-214
0	300.06	89	238	1.24	597.81	595	8	63.1		PB-212
0	328.46	176	338	1.70	654.41	648	14	46.9		
0	338.44*	432	304	1.32	674.29	669	11	18.6		AC-228
0	352.10*	727	313	1.25	701.51	695	14	12.8		PB-214
0	463.20	159	165	1.26	922.94	916	12	36.0		AC-228
0	511.45*	283	217	2.23	1019.13	1012	18	30.0		TL-208
0	563.08	77	108	1.09	1122.06	1117	11	57.2		
0	583.15*	681	174	1.36	1162.08	1155	15	11.5		TL-208
0	609.39*	479	164	1.31	1214.41	1209	13	14.5		BI-214
0	661.97	62	86	1.73	1319.26	1315	9	59.5		CS-137
0	727.21	157	110	1.55	1449.42	1444	13	31.6		BI-212
0	769.41	163	94	6.69	1533.60	1525	20	33.3		BI-214
0	795.12	125	50	1.93	1584.90	1577	13	29.2		AC-228
0	837.73	61	84	0.79	1669.93	1664	15	71.9		
0	860.79	71	99	1.28	1715.94	1709	15	65.1		TL-208
0	911.11*	568	54	1.71	1816.40	1810	16	10.4		AC-228
1	964.53	112	47	1.91	1923.02	1915	30	30.9	1.41E+00	AC-228
1	968.88*	295	49	1.70	1931.70	1915	30	14.8		AC-228
0	1120.08*	148	45	1.85	2233.65	2226	18	27.4		BI-214
0	1459.61*	431	23	2.17	2912.17	2902	17	11.2		K-40
0	1587.40*	28	25	1.96	3167.74	3163	9	75.6		AC-228
0	1727.86	37	10	1.95	3448.77	3442	13	47.6		BI-214
0	1762.90*	91	4	1.94	3518.88	3511	15	24.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
6	90.01	237	365	1.07	179.46	177	14	2.20E-02	25.2	2.61E+00	
0	186.15	266	612	1.14	370.92	366	10	2.47E-02	38.0	3.21E+00	
2	241.08	176	323	1.24	480.33	470	17	1.63E-02	46.6	2.78E+00	
0	328.46	176	338	1.70	654.41	648	14	1.63E-02	46.9	2.20E+00	
0	563.08	77	108	1.09	1122.06	1117	11	7.08E-03	57.2	1.39E+00	
0	837.73	61	84	0.79	1669.93	1664	15	5.66E-03	71.9	1.01E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.874E+00	5.009E-01	2.052E-01	1.321E-02	18.884
CS-137	3.882E-02	2.352E-02	3.180E-02	3.618E-03	1.221
TL-208	3.861E-01	5.986E-02	2.855E-02	2.973E-03	13.523
BI-212	7.622E-01	2.547E-01	2.173E-01	2.376E-02	3.508
PB-212	1.083E+00	1.013E-01	4.873E-02	3.724E-03	22.232
BI-214	5.155E-01	9.281E-02	5.611E-02	5.975E-03	9.187
PB-214	6.019E-01	8.992E-02	5.708E-02	4.377E-03	10.544
RA-223	9.845E-02	1.155E-01	1.451E-01	1.291E-02	0.679
AC-228	1.497E+00	2.027E-01	9.761E-02	8.481E-03	15.338
TH-234	1.800E+00	5.954E-01	4.567E-01	4.568E-02	3.941
NP-237	5.720E-01	2.081E-01	2.552E-01	3.207E-02	2.241
AM-243	2.590E-01	7.009E-02	5.611E-02	1.118E-02	4.615

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-4.959E-03		1.733E-02	2.726E-02	1.586E-03	-0.182
RH-101	-1.011E-02		1.815E-02	2.874E-02	4.487E-03	-0.352
SB-125	1.752E-02		4.514E-02	7.851E-02	6.437E-03	0.223
EU-155	7.352E-02		6.409E-02	1.105E-01	1.035E-02	0.665
PO-209	2.237E+00		3.260E+00	5.989E+00	1.148E+00	0.373
BI-211	3.455E-01		5.402E-01	8.755E-01	8.571E-02	0.395
PA-233	3.657E-02		3.161E-02	5.680E-02	4.575E-03	0.644
PA-234M	1.138E+00		1.966E+00	3.609E+00	2.818E-01	0.315
U-235	6.258E-02		1.150E-01	1.926E-01	1.406E-02	0.325
NP-236	7.974E-02		4.000E-02	6.709E-02	6.669E-03	1.188
NP-239	5.217E-02		1.112E-01	1.957E-01	2.641E-02	0.267
AM-241	-1.622E-02		1.070E-01	1.630E-01	1.069E-02	-0.100
CM-243	3.687E-03		5.721E-02	9.602E-02	1.038E-02	0.038
AM-246	-6.258E-03		5.515E-02	9.517E-02	1.217E-02	-0.066
CF-249	-6.771E-03		1.985E-02	3.327E-02	3.188E-03	-0.203

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-NOV-2007 15:29:00

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793413_GAMMA3_400MLSAN_17178.CNF

---- Sample Information ----

Sample ID	: OH207-7934-13
Sample Title	: SB-CA-SS-2203-SD
Sample Quantity	: 4.83100E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17178

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 17-NOV-2007 12:28:41
Decay time	: 52 12:28:41.73	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.12

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.10*	214	1079	1.26	140.17	135	13	66.6		TH-234
3	74.82*	885	1135	1.75	166.15	157	19	17.8	2.21E+00	AM-243
										PB-214
										PB-212
3	77.20*	1095	740	1.18	171.43	157	19	11.1		PB-214
										PB-212
3	87.33	450	841	1.41	193.88	179	35	25.1	1.06E+00	NP-237
										PB-214
										PB-212
3	89.98	284	711	1.22	199.75	179	35	35.4		
3	92.87*	425	923	1.70	206.17	179	35	32.2		TH-234
0	129.39	124	615	1.16	287.12	283	8	71.6		AC-228
0	185.73*	503	831	1.70	412.00	403	15	27.1		
0	209.47	212	535	1.44	464.61	460	10	43.3		AC-228
4	238.67*	2018	401	1.44	529.33	520	24	6.0	1.65E+00	PB-212
4	241.84	530	513	2.24	536.37	520	24	26.3		PB-214
0	270.42	175	483	1.53	599.72	594	13	54.1		RA-223
										AC-228
0	295.37*	639	366	1.54	655.01	650	12	14.5		PB-214
0	300.02	126	217	1.10	665.32	662	8	44.0		PB-212
0	328.02	149	367	2.52	727.39	722	14	56.7		
0	338.47	360	363	1.75	750.55	745	12	23.7		AC-228
0	352.07*	1116	364	1.50	780.69	772	17	9.9		PB-214
0	463.54	102	183	1.48	1027.77	1022	11	55.2		AC-228
0	510.69*	232	197	1.88	1132.25	1126	17	33.5		TL-208
0	583.17*	597	232	1.73	1292.91	1284	20	15.2		TL-208
0	609.26*	845	169	1.70	1350.74	1344	13	9.5		BI-214
0	661.40	215	148	1.60	1466.28	1458	15	28.3		CS-137
0	727.47*	154	126	1.77	1612.72	1607	15	36.1		BI-212
0	796.07	140	104	1.75	1764.76	1757	19	40.1		AC-228
0	860.64	79	99	5.07	1907.85	1898	18	63.4		TL-208
0	911.27*	408	121	1.80	2020.06	2009	21	16.9		AC-228
0	968.96	225	106	1.86	2147.92	2143	14	23.9		AC-228
0	1119.88*	225	63	2.06	2482.37	2470	21	22.3		BI-214
0	1377.56	52	16	2.03	3053.40	3046	13	42.6		BI-214
0	1460.78*	592	46	2.30	3237.83	3228	23	10.3		K-40
0	1513.10	38	48	6.16	3353.77	3337	25	111.0		
0	1729.61	39	5	2.38	3833.52	3828	11	39.9		BI-214
0	1764.38*	149	10	2.27	3910.58	3900	21	20.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.98	284	711	1.22	199.75	179	35	2.63E-02	35.4	3.55E+00	
0	185.73	503	831	1.70	412.00	403	15	4.65E-02	27.1	2.82E+00	
0	328.02	149	367	2.52	727.39	722	14	1.38E-02	56.7	1.89E+00	
0	1513.10	38	48	6.16	3353.77	3337	25	3.49E-03	****	5.44E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.153E+00	6.119E-01	2.775E-01	1.633E-02	18.572
CS-137	1.250E-01	3.650E-02	3.610E-02	2.599E-03	3.463
TL-208	3.126E-01	5.351E-02	3.049E-02	2.426E-03	10.253
BI-212	6.968E-01	2.563E-01	2.721E-01	1.975E-02	2.560
PB-212	1.005E+00	9.635E-02	5.026E-02	3.757E-03	19.990
BI-214	8.423E-01	1.023E-01	5.880E-02	4.480E-03	14.324
PB-214	8.588E-01	1.094E-01	6.083E-02	4.839E-03	14.119
RA-223	2.998E-01	1.643E-01	1.583E-01	1.402E-02	1.894
AC-228	1.021E+00	1.868E-01	1.241E-01	8.727E-03	8.226
TH-234	1.146E+00	3.830E-01	3.714E-01	3.325E-02	3.087
NP-237	5.299E-01	1.456E-01	1.614E-01	1.799E-02	3.284
AM-243	1.923E-01	5.043E-02	3.100E-02	5.962E-03	6.202

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.384E-02		1.789E-02	2.913E-02	1.545E-03	-0.475
RH-101	1.088E-04		1.887E-02	3.158E-02	4.875E-03	0.003
SB-125	2.989E-03		4.697E-02	8.191E-02	6.772E-03	0.036
EU-155	6.457E-02		5.382E-02	9.455E-02	8.891E-03	0.683
PO-209	2.697E+00		3.488E+00	6.453E+00	1.189E+00	0.418
BI-211	-4.556E-01		5.589E-01	8.959E-01	6.452E-02	-0.509
PA-233	7.380E-03		3.406E-02	5.751E-02	4.693E-03	0.128
PA-234M	6.631E-01		2.040E+00	3.717E+00	2.538E-01	0.178
U-235	-2.526E-02		1.109E-01	1.871E-01	1.389E-02	-0.135
NP-236	3.991E-02		3.590E-02	5.272E-02	5.031E-03	0.757
NP-239	-4.057E-02		1.199E-01	1.996E-01	2.671E-02	-0.203
AM-241	1.953E-02		3.564E-02	5.269E-02	3.334E-03	0.371
CM-243	-1.549E-02		4.859E-02	8.291E-02	8.934E-03	-0.187
AM-246	5.168E-02		6.109E-02	1.146E-01	1.446E-02	0.451
CF-249	-1.419E-02		2.120E-02	3.580E-02	3.565E-03	-0.396

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-NOV-2007 18:36:32

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793414_GAMMA1_400MLSAN_17179.CNF

---- Sample Information ----

Sample ID	: OH207-7934-14		
Sample Title	: SB-CA-SS-2204-SD		
Sample Quantity	: 5.11600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17179		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 17-NOV-2007 15:36:12
Decay time	: 52 15:36:12.92	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.75

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/19/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.97*	349	658	1.12	149.35	145	13	26.7	3.51E-01	AM-243
										PB-214
										PB-212
2	77.23*	569	533	0.96	153.87	145	13	15.6		PB-214
										PB-212
5	87.33	349	635	1.37	174.11	161	31	27.2	1.25E+00	NP-237
										PB-214
										PB-212
5	89.99	208	541	1.16	179.44	161	31	40.1		
5	92.93*	362	676	1.44	185.31	161	31	29.5		
0	129.08	162	595	1.56	257.70	255	8	54.4		AC-228
0	185.86*	463	771	1.14	371.40	365	13	26.8		
0	209.60	181	540	1.07	418.93	414	9	48.7		AC-228
1	238.67*	1953	376	1.10	477.15	472	17	5.7	7.28E-01	PB-212
1	240.71	204	363	1.28	481.23	472	17	55.7		
1	241.98	391	297	1.18	483.77	472	17	19.8		PB-214
0	270.35	263	397	1.38	540.57	535	11	31.8		RA-223
										AC-228
0	277.61	101	340	1.16	555.10	551	9	68.4		TL-208
3	295.26*	626	247	1.21	590.45	586	19	11.5	1.52E+00	PB-214
3	300.14	171	269	1.48	600.22	586	19	38.9		PB-212
0	327.95	88	312	1.13	655.91	652	9	75.0		
0	338.27*	345	369	1.11	676.57	671	11	24.3		AC-228
0	351.86*	1183	409	1.24	703.78	697	14	9.4		PB-214
0	409.37	74	153	1.76	818.93	816	8	62.0		AC-228
0	462.69	163	190	1.07	925.70	920	12	37.1		AC-228
0	510.88*	252	244	1.69	1022.19	1016	15	32.3		TL-208
0	583.14*	663	183	1.50	1166.84	1161	12	11.4		TL-208
0	609.20*	825	214	1.30	1219.03	1212	15	10.5		BI-214
0	661.34	74	124	1.09	1323.41	1319	10	61.4		CS-137
0	727.36*	176	89	1.53	1455.58	1450	12	26.5		BI-212
0	768.81	172	173	1.99	1538.57	1530	20	40.6		BI-214
0	795.09	104	131	1.33	1591.18	1583	16	53.3		AC-228
0	860.53	104	65	1.85	1722.20	1715	13	37.4		TL-208
0	911.21*	495	135	1.53	1823.64	1817	16	14.2		AC-228
0	934.08	44	42	0.83	1869.43	1866	7	57.9		BI-214
1	964.32	62	75	1.87	1929.96	1922	24	56.6	1.78E+00	AC-228
1	968.85*	306	56	1.87	1939.04	1922	24	15.2		AC-228
0	1120.27*	170	108	1.86	2242.16	2235	17	32.4		BI-214
0	1238.04	93	62	2.25	2477.89	2473	11	38.4		BI-214
0	1378.07	81	29	2.08	2758.17	2751	17	38.0		BI-214
0	1460.50*	861	32	2.30	2923.17	2915	16	7.5		K-40
0	1631.43	22	27	0.79	3265.28	3258	16	107.8		
0	1764.15*	151	22	1.80	3530.91	3523	18	22.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	89.99	208	541	1.16	179.44	161	31	1.93E-02	40.1	2.33E+00	
5	92.93	362	676	1.44	185.31	161	31	3.35E-02	29.5	2.43E+00	T
0	185.86	463	771	1.14	371.40	365	13	4.28E-02	26.8	3.03E+00	
1	240.71	204	363	1.28	481.23	472	17	1.89E-02	55.7	2.64E+00	
0	327.95	88	312	1.13	655.91	652	9	8.16E-03	75.0	2.11E+00	
0	1631.43	22	27	0.79	3265.28	3258	16	2.07E-03	****	6.51E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.583E+00	5.658E-01	1.860E-01	1.269E-02	30.024
CS-137	3.499E-02	2.181E-02	2.696E-02	2.897E-03	1.298
TL-208	2.883E-01	4.371E-02	2.438E-02	2.447E-03	11.826
BI-212	6.446E-01	1.818E-01	1.833E-01	1.763E-02	3.517
PB-212	8.301E-01	7.951E-02	3.983E-02	3.074E-03	20.840
BI-214	6.791E-01	9.925E-02	4.179E-02	4.257E-03	16.249
PB-214	7.735E-01	9.469E-02	4.672E-02	3.686E-03	16.556
RA-223	3.843E-01	1.274E-01	1.205E-01	1.109E-02	3.190
AC-228	9.657E-01	1.472E-01	9.332E-02	5.157E-03	10.348
NP-237	6.274E-01	1.931E-01	1.873E-01	2.708E-02	3.350
AM-243	1.500E-01	5.091E-02	4.677E-02	9.812E-03	3.208

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-2.810E-03		1.401E-02	1.845E-02	1.204E-03	-0.152
RH-101	-7.431E-03		1.499E-02	2.422E-02	3.757E-03	-0.307
SB-125	-1.971E-02		3.525E-02	5.859E-02	4.805E-03	-0.336
EU-155	5.866E-02		5.391E-02	9.370E-02	9.303E-03	0.626
PO-209	9.374E-01		2.536E+00	4.575E+00	8.189E-01	0.205
BI-211	-3.792E-01		4.229E-01	6.938E-01	5.055E-02	-0.547
PA-233	9.708E-03		2.525E-02	4.447E-02	3.735E-03	0.218
PA-234M	5.095E-01		1.521E+00	2.739E+00	1.574E-01	0.186
TH-234	1.355E+00	+	4.295E-01	5.311E-01	6.196E-02	2.551
U-235	7.736E-02		9.595E-02	1.632E-01	1.139E-02	0.474
NP-236	2.689E-02		3.439E-02	5.355E-02	5.883E-03	0.502
NP-239	4.180E-02		9.465E-02	1.569E-01	2.117E-02	0.266
AM-241	-2.513E-02		8.346E-02	1.435E-01	1.141E-02	-0.175
CM-243	3.292E-02		4.861E-02	8.383E-02	9.553E-03	0.393
AM-246	3.224E-02		4.653E-02	8.527E-02	1.049E-02	0.378
CF-249	3.961E-03		1.673E-02	2.900E-02	2.798E-03	0.137

BENCH SHEET

Method:	Gamma Spec (DOE 4.5.2.3)	Project Name:	Cabrera Services-Oahu, HI
Analysis Type:	Gamma (DOE 21 day ing	Project Location:	
Matrix:	Soil	Project Number:	FOAH2/L
Date Received:	9/27/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7933 7936 8			

qy

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7935-PB		9/27/2007 8:45:00 AM	
SCAQC	7935-LD1 OH207-7935-01	SB-CA-SS-2205-ST	9/26/2007	
SCAQC	7935-LC1		9/27/2007 8:45:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7935-01	SB-CA-SS-2205-ST	9/26/2007	
OH207	7935-02	SB-CA-SS-2206-ST	9/26/2007	
OH207	7935-03	SB-CA-SS-2207-ST	9/26/2007	
OH207	7935-04	SB-CA-SS-2208-ST	9/26/2007	
OH207	7935-05	SB-CA-SS-2209-ST	9/26/2007	

Radiochemistry Reviewer 11/19/07 Date

QA Reviewer 11/20/2007 Date

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-16-07 1841 G2 IC	180	OH207	7934	06	–	9/26/07	SB-CA-SS-2196-SD	SOIL	484.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-16-07 1842 G3 IC				07	–		2197-SD		501.6 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-16-07 2201 G3 CW				08	–		2198-SD		457.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 0923 G2 IC				09	–		2199-SD		445.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 0928 G3				10	–		2200-SD		485.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 1222 G1				11	–		2201-SD		458.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 1227 G2				12	–		2202-SD		387.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 1228 G3				13	–		2203-SD		483.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 1537 2018 11-17-07 G1 CW	✓	✓	✓	14	–	✓	2204-SD	✓	511.6 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-17-07 1538 G3 CW	180	SCAQC	7935	PB1	–	9/27/07 0845	PREP BLK	LIQUID	400 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

amsel = G1
amse2 = G2

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SC&A - Southeastern Environmental Laboratory
SCA-Form 012 Rev. 1

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-17-07 1539 G2 CW	60	SCAQC	7935	LC1	—	9/27/07 0845	CTRL SAMP S-142	SOIL	640g	400 mL Liquid □ 1 Liter Liquid □ 10 mL Sand □ 20 mL Sand □ 40 mL Sand □ 200 mL Sand □ 400 mL Sand □ _____ □
11-17-07 1648 G2 CW	180	SCAQC	7935	LD1	—	9/26/07	DUP 7935-01		464.8 gdry	400 mL Liquid □ 1 Liter Liquid □ 10 mL Sand □ 20 mL Sand □ 40 mL Sand □ 200 mL Sand □ 400 mL Sand □ _____ □
11-18-07 0850 G1 IC		OH207		01	—		SB-CA-SS-2205-ST		464.8 gdry	400 mL Liquid □ 1 Liter Liquid □ 10 mL Sand □ 20 mL Sand □ 40 mL Sand □ 200 mL Sand □ 400 mL Sand □ _____ □
11-18-07 0852 G2 IC				02	—		2206-ST		441.6 gdry	400 mL Liquid □ 1 Liter Liquid □ 10 mL Sand □ 20 mL Sand □ 40 mL Sand □ 200 mL Sand □ 400 mL Sand □ _____ □
11-18-07 0853 G3 IC				03	—		2207-ST		426.7 gdry	400 mL Liquid □ 1 Liter Liquid □ 10 mL Sand □ 20 mL Sand □ 40 mL Sand □ 200 mL Sand □ 400 mL Sand □ _____ □
11-18-07 12:00 G1 HS				04	—		2208-ST		426.6 gdry	400 mL Liquid □ 1 Liter Liquid □ 10 mL Sand □ 20 mL Sand □ 40 mL Sand □ 200 mL Sand □ 400 mL Sand □ _____ □
11-18-07 12:01 G2 HS				05	—		2209-ST		397.0 gdry	400 mL Liquid □ 1 Liter Liquid □ 10 mL Sand □ 20 mL Sand □ 40 mL Sand □ 200 mL Sand □ 400 mL Sand □ _____ □
11-18-07 12:05 G3 HS	180	SCAQC	7936	PB1	—	9/27/07 0845	PREP BLK	LIQUID	400g	400 mL Liquid □ 1 Liter Liquid □ 10 mL Sand □ 20 mL Sand □ 40 mL Sand □ 200 mL Sand □ 400 mL Sand □ _____ □
11-18-07 1502 G1 CW	60			LC1	—		CTRL SAMP S-142	SOIL	640g	400 mL Liquid □ 1 Liter Liquid □ 10 mL Sand □ 20 mL Sand □ 40 mL Sand □ 200 mL Sand □ 400 mL Sand □ _____ □
11-18-07 1503 G2 CW	180			LD1	—	9/26/07	DUP 7936-01		466.6 gdry	400 mL Liquid □ 1 Liter Liquid □ 10 mL Sand □ 20 mL Sand □ 40 mL Sand □ 200 mL Sand □ 400 mL Sand □ _____ □

amp1 = G1
amp2 = G2

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-NOV-2007 18:38:16

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7935PB1_GAMMA3_400MLSA_17180.CNF

---- Sample Information ----

Sample ID	: SCAQC-7935-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17180		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 17-NOV-2007 15:38:02
Decay time	: 51 06:53:02.20	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.54

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Mc Mahan Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw %Err	Fit	Nuclides
0	98.51*	41	116	1.40	218.66	214	8104.1		NP-236
0	185.88*	78	108	1.52	412.32	408	10 65.6		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	185.88	78	108	1.52	412.32	408	10	7.20E-03	65.6	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
NP-236	1.910E-02	1.996E-02	2.976E-02	2.840E-03	0.642

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	-1.112E-01		1.537E-01	2.811E-01	1.654E-02	-0.395
CO-60	-8.268E-04		1.365E-02	2.104E-02	1.116E-03	-0.039
RH-101	-2.365E-03		1.227E-02	2.026E-02	3.128E-03	-0.117
SB-125	-7.890E-03		3.216E-02	5.647E-02	4.668E-03	-0.140
CS-137	-3.227E-03		1.291E-02	2.239E-02	1.612E-03	-0.144
EU-155	1.453E-02		3.275E-02	5.857E-02	5.508E-03	0.248
TL-208	-9.272E-03		1.499E-02	2.561E-02	2.038E-03	-0.362
PO-209	2.526E+00		2.746E+00	5.417E+00	9.980E-01	0.466
BI-211	-4.898E-02		3.931E-01	6.837E-01	4.924E-02	-0.072
BI-212	-3.616E-02		9.378E-02	1.613E-01	1.170E-02	-0.224
PB-212	-8.913E-03		2.441E-02	4.072E-02	3.043E-03	-0.219
BI-214	-1.854E-02		2.837E-02	4.870E-02	3.711E-03	-0.381
PB-214	2.202E-02		2.892E-02	5.125E-02	4.078E-03	0.430
RA-223	-1.285E-02		5.988E-02	1.017E-01	9.001E-03	-0.126
AC-228	-4.329E-02		5.086E-02	8.632E-02	6.069E-03	-0.501
PA-233	-1.265E-02		2.322E-02	3.822E-02	3.119E-03	-0.331
PA-234M	-5.372E-01		1.643E+00	2.935E+00	2.004E-01	-0.183
TH-234	-2.083E-01		1.922E-01	3.349E-01	2.998E-02	-0.622
U-235	5.026E-02		7.141E-02	1.258E-01	9.336E-03	0.400
NP-237	6.300E-03		6.324E-02	1.056E-01	1.177E-02	0.060
NP-239	-4.237E-02		7.865E-02	1.308E-01	1.750E-02	-0.324
AM-241	-6.994E-02		2.461E-02	3.482E-02	2.203E-03	-2.009
AM-243	-8.645E-03		1.197E-02	1.894E-02	3.643E-03	-0.456
CM-243	2.328E-02		2.972E-02	5.269E-02	5.678E-03	0.442
AM-246	3.773E-02		4.510E-02	9.102E-02	1.149E-02	0.415
CF-249	-3.125E-04		1.408E-02	2.515E-02	2.505E-03	-0.012

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-NOV-2007 16:39:26

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7935LC1_GAMMA2_400MLSA_17181.CNF

---- Sample Information ----

Sample ID	: SCAQC-7935-LC1		
Sample Title	: CTRL SAMP S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17181		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 17-NOV-2007 15:39:01
Decay time	: 51 06:54:01.39	% dead time	: 0.3%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:09.56

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**}2 + a5*x^{**}3 + a6*x^{**}4 + a7*x^{**}5$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
8	58.03	2139	6814	1.85	115.79	113	12	11.9	4.39E+00	
8	59.49	25832	5089	0.97	118.70	113	12	1.6		AM-241
0	88.02*	10425	4799	1.10	175.51	171	10	3.2		
0	122.06	1821	3772	1.04	243.29	239	10	13.5		
0	136.85	249	2565	1.53	272.74	270	7	68.6		
0	238.51*	335	2838	1.37	475.21	471	9	58.3		
0	583.19*	134	855	0.91	1162.17	1159	8	77.7		
0	661.75	26915	1438	1.51	1318.83	1311	15	1.4		CS-137
0	1172.77	20719	868	1.86	2338.89	2329	19	1.5		CO-60
0	1331.73	18709	234	2.00	2656.54	2647	18	1.5		CO-60

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
8	58.03	2139	6814	1.85	115.79	113	12	5.94E-01	11.9	1.04E+00	
0	88.02	10425	4799	1.10	175.51	171	10	2.90E+00	3.2	2.54E+00	T
0	122.06	1821	3772	1.04	243.29	239	10	5.06E-01	13.5	3.30E+00	
0	136.85	249	2565	1.53	272.74	270	7	6.93E-02	68.6	3.38E+00	
0	238.51	335	2838	1.37	475.21	471	9	9.31E-02	58.3	2.80E+00	T
0	583.19	134	855	0.91	1162.17	1159	8	3.73E-02	77.7	1.35E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
CO-60	3.129E+01	1.795E+00	1.065E-01	6.197E-03	293.714
CS-137	3.060E+01	3.506E+00	1.676E-01	1.906E-02	182.601
AM-241	7.482E+01	5.046E+00	9.968E-01	6.539E-02	75.062

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	2.364E-01		4.019E-01	7.577E-01	4.877E-02	0.312
RH-101	2.059E-02		7.785E-02	1.249E-01	1.951E-02	0.165
SB-125	-1.255E-01		2.738E-01	4.477E-01	3.670E-02	-0.280
EU-155	-9.047E-02		2.565E-01	4.205E-01	3.937E-02	-0.215
TL-208	1.381E-01	+	1.082E-01	1.624E-01	1.691E-02	0.850
PO-209	-5.594E-01		2.538E+01	4.216E+01	8.082E+00	-0.013
BI-211	-5.283E-01		3.091E+00	5.153E+00	5.044E-01	-0.103
BI-212	4.314E-01		7.359E-01	1.259E+00	1.376E-01	0.343
PB-212	3.240E-01	+	1.907E-01	2.342E-01	1.790E-02	1.383
BI-214	3.240E-01		1.793E-01	3.121E-01	3.323E-02	1.038
PB-214	1.977E-01		1.784E-01	3.023E-01	2.318E-02	0.654
RA-223	6.200E-02		4.167E-01	7.071E-01	6.291E-02	0.088
AC-228	4.531E-01		4.825E-01	8.132E-01	7.067E-02	0.557
PA-233	5.204E-02		1.558E-01	2.632E-01	2.120E-02	0.198
PA-234M	4.021E+00		1.447E+01	2.402E+01	1.875E+00	0.167
TH-234	-2.440E-01		1.226E+00	1.816E+00	1.816E-01	-0.134
U-235	-3.327E-01		4.487E-01	7.199E-01	5.255E-02	-0.462
NP-236	-6.035E-02		1.467E-01	2.410E-01	2.395E-02	-0.250
NP-237	1.874E+01		2.521E+00	1.648E+00	2.071E-01	11.369
NP-239	1.489E-01		5.119E-01	8.761E-01	1.182E-01	0.170
AM-243	-1.220E-01		1.416E-01	2.304E-01	4.592E-02	-0.530
CM-243	-6.237E-02		2.353E-01	3.866E-01	4.180E-02	-0.161
AM-246	1.302E-01		4.429E-01	7.314E-01	9.355E-02	0.178
CF-249	-2.125E-02		1.059E-01	1.752E-01	1.678E-02	-0.121

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-NOV-2007 19:48:59

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7935LD1_GAMMA2_400MLSA_17182.CNF

---- Sample Information ----

Sample ID	: SCAQC-7935-LD1		
Sample Title	: DUP 7935-01		
Sample Quantity	: 4.64800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17182		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 17-NOV-2007 16:48:38
Decay time	: 52 16:48:38.99	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.43

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Hoar Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.13*	103	485	0.97	125.96	123	6	72.4		TH-234
2	74.83	471	666	1.19	149.25	142	16	20.7	1.67E+00	AM-243
										PB-214
										PB-212
2	77.11	689	545	1.00	153.79	142	16	13.4		PB-214
										PB-212
4	87.31*	317	636	1.24	174.10	164	26	28.8	1.96E+00	NP-237
										PB-214
										PB-212
4	89.78	172	556	1.01	179.02	164	26	46.1		
4	92.86*	241	663	1.13	185.14	164	26	38.7		TH-234
0	128.98	189	594	1.17	257.07	253	8	46.9		AC-228
0	186.12*	307	679	1.04	370.85	366	10	34.8		
1	208.90	119	365	1.30	416.24	413	9	54.4	7.45E+00	AC-228
1	209.67	119	459	1.30	417.76	413	9	66.8		
2	238.75*	1869	363	1.16	475.67	469	17	5.8	1.43E+00	PB-212
2	241.75	437	393	1.48	481.65	469	17	21.6		PB-214
0	270.37	189	374	1.19	538.66	534	12	43.4		RA-223
										AC-228
0	277.40	95	328	1.10	552.68	549	9	71.7		TL-208
5	295.36*	608	221	1.38	588.46	581	25	11.8	2.11E+00	PB-214
5	300.28	164	310	2.07	598.27	581	25	47.2		PB-212
0	327.98	92	305	0.99	653.45	649	10	73.7		
0	338.54*	346	247	1.16	674.50	670	9	20.0		AC-228
0	352.09*	1057	253	1.31	701.48	695	12	8.7		PB-214
0	463.35	78	169	0.99	923.23	919	9	64.2		AC-228
0	510.89*	217	245	1.79	1018.00	1011	17	38.7		TL-208
0	583.37*	561	160	1.39	1162.52	1157	12	12.5		TL-208
0	609.40*	647	175	1.31	1214.43	1206	15	12.1		BI-214
0	661.76	285	113	1.40	1318.86	1313	13	19.4		CS-137
0	727.59	168	83	1.82	1450.16	1445	13	27.0		BI-212
0	794.91	83	79	1.99	1584.48	1579	12	48.5		AC-228
0	861.07	67	80	2.44	1716.52	1710	15	66.2		TL-208
0	911.06*	451	97	1.94	1816.29	1810	17	13.9		AC-228
0	934.46	39	72	1.43	1863.00	1856	15	99.4		BI-214
1	964.48	66	85	1.93	1922.94	1916	30	56.2	1.31E+00	AC-228
1	968.85*	232	55	1.86	1931.65	1916	30	18.6		AC-228
0	1100.68	43	32	3.88	2194.90	2188	13	63.0		
0	1119.95*	151	63	1.92	2233.39	2226	14	28.0		BI-214
0	1237.82*	56	87	1.52	2468.86	2460	17	80.5		BI-214
0	1378.63*	39	50	2.10	2750.27	2741	22	97.6		BI-214
0	1406.35	34	11	1.62	2805.69	2800	12	53.2		BI-214
0	1459.72*	578	50	2.18	2912.39	2902	22	10.6		K-40
0	1619.21	29	12	1.51	3231.38	3226	12	60.5		BI-212
0	1762.51*	122	3	2.47	3518.12	3512	14	20.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.78	172	556	1.01	179.02	164	26	1.59E-02	46.1	2.60E+00	
0	186.12	307	679	1.04	370.85	366	10	2.84E-02	34.8	3.21E+00	
1	209.67	119	459	1.30	417.76	413	9	1.10E-02	66.8	3.03E+00	
0	327.98	92	305	0.99	653.45	649	10	8.53E-03	73.7	2.20E+00	
0	1100.68	43	32	3.88	2194.90	2188	13	3.95E-03	63.0	8.28E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.326E+00	5.368E-01	2.104E-01	1.354E-02	20.561
CS-137	1.489E-01	3.351E-02	2.538E-02	2.887E-03	5.866
TL-208	2.648E-01	4.316E-02	2.428E-02	2.528E-03	10.909
BI-212	6.797E-01	1.980E-01	1.841E-01	2.013E-02	3.692
PB-212	8.295E-01	7.953E-02	4.082E-02	3.119E-03	20.322
BI-214	5.806E-01	9.357E-02	4.801E-02	5.112E-03	12.094
PB-214	7.298E-01	8.455E-02	4.644E-02	3.561E-03	15.716
RA-223	2.887E-01	1.279E-01	1.286E-01	1.144E-02	2.246
AC-228	9.902E-01	1.626E-01	9.136E-02	7.939E-03	10.838
TH-234	8.886E-01	3.549E-01	4.194E-01	4.195E-02	2.119
NP-237	5.553E-01	1.747E-01	1.982E-01	2.491E-02	2.801
AM-243	1.910E-01	5.484E-02	4.719E-02	9.406E-03	4.047

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	2.825E-03		1.566E-02	2.307E-02	1.342E-03	0.122
RH-101	-9.256E-03		1.562E-02	2.469E-02	3.854E-03	-0.375
SB-125	2.200E-02		4.006E-02	6.994E-02	5.734E-03	0.314
EU-155	5.137E-02		5.499E-02	9.424E-02	8.823E-03	0.545
PO-209	-8.353E-01		2.496E+00	4.256E+00	8.160E-01	-0.196
BI-211	-2.290E-01		4.288E-01	7.181E-01	7.030E-02	-0.319
PA-233	9.209E-04		2.663E-02	4.586E-02	3.694E-03	0.020
PA-234M	2.241E-01		1.790E+00	3.146E+00	2.456E-01	0.071
U-235	-4.554E-03		9.655E-02	1.588E-01	1.159E-02	-0.029
NP-236	4.003E-03		3.109E-02	5.235E-02	5.204E-03	0.076
NP-239	-1.071E-01		9.826E-02	1.627E-01	2.195E-02	-0.658
AM-241	9.627E-02		9.098E-02	1.450E-01	9.513E-03	0.664
CM-243	3.237E-02		5.016E-02	8.538E-02	9.231E-03	0.379
AM-246	2.844E-02		5.079E-02	9.221E-02	1.179E-02	0.308
CF-249	-3.787E-03		1.708E-02	2.879E-02	2.758E-03	-0.132

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-NOV-2007 11:51:01

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793501_GAMMA1_400MLSAN_17186.CNF

---- Sample Information ----

Sample ID : OH207-7935-01
Sample Title : SB-CA-SS-2205-ST
Sample Quantity : 4.64800E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17186

---- Sample Decay/Count Information ----

Collection Date : 26-SEP-2007 00:00:00 Acquisition date : 18-NOV-2007 08:50:44
Decay time : 53 08:50:44.81 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:02.51

---- Detector Parameters ----

Energy cal. time : 23-MAR-2006 15:15:18 Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA1 Counting geometry: 400 ml sand
Effic. cal. time : 23-MAR-2006 15:18:11 Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.65904E+00 a3=6.59172E-01 a4=3.93115E-02
a5=1.38137E-01 a6=-8.70295E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.89*	335	512	1.02	149.19	145	15	23.9	2.71E+00	AM-243
										PB-214
										PB-212
1	77.20*	622	441	1.03	153.83	145	15	13.6		PB-214
										PB-212
4	87.45	258	440	1.40	174.35	171	21	28.2	1.25E+00	NP-237
										PB-214
										PB-212
4	89.87	190	425	1.06	179.20	171	21	37.6		
4	92.89*	260	474	1.21	185.24	171	21	32.5		
0	129.15	128	526	1.06	257.85	254	8	64.4		AC-228
0	185.94*	220	590	1.13	371.56	367	10	44.5		
0	209.24	207	467	1.01	418.22	414	10	41.3		AC-228
4	238.68*	1719	334	1.04	477.16	472	20	5.9	1.87E+00	PB-212
4	241.75	347	403	1.48	483.31	472	20	25.0		PB-214
0	270.41	174	376	1.47	540.70	535	11	45.6		RA-223
										AC-228
0	277.46	93	214	1.33	554.82	552	7	55.7		TL-208
0	295.32*	599	380	1.07	590.57	586	11	15.1		PB-214
0	300.24	115	309	1.09	600.43	596	10	60.5		PB-212
1	327.42	70	134	1.20	654.85	652	9	54.3	1.91E+00	
1	328.62	58	177	1.20	657.25	652	9	84.5		
0	338.55*	480	252	1.25	677.12	671	13	16.6		AC-228
0	351.86*	956	276	1.24	703.79	697	13	9.7		PB-214
0	463.07	100	207	1.15	926.46	921	12	60.8		AC-228
0	510.66*	261	234	1.76	1021.73	1015	17	31.8		TL-208
0	583.04*	648	150	1.46	1166.65	1159	15	11.5		TL-208
0	609.24*	754	121	1.46	1219.10	1212	13	9.5		BI-214
0	661.54	296	107	1.31	1323.82	1318	11	17.8		CS-137
0	727.19*	138	83	1.48	1455.25	1450	11	31.0		BI-212
0	794.54	75	78	1.62	1590.07	1584	14	55.1		AC-228
0	860.07	115	33	1.53	1721.27	1716	11	27.0		TL-208
0	911.03*	437	69	1.83	1823.28	1817	13	12.5		AC-228
0	934.44	38	67	1.42	1870.15	1866	13	93.9		BI-214
1	964.51	57	87	1.87	1930.34	1922	27	62.5	1.88E+00	AC-228
1	968.84*	226	54	1.70	1939.02	1922	27	18.8		AC-228
0	1120.19*	160	75	2.20	2241.99	2234	15	28.7		BI-214
0	1237.64	73	54	1.96	2477.10	2471	12	46.5		BI-214
5	1377.58	46	48	3.07	2757.21	2750	35	63.8	2.78E+00	BI-214
5	1385.99	36	31	3.08	2774.03	2750	35	96.1		
0	1460.45*	685	14	2.28	2923.06	2914	19	8.2		K-40
0	1587.31	28	29	3.96	3176.98	3170	13	89.1		AC-228
0	1730.34	20	29	1.19	3463.24	3452	14	119.2		BI-214
0	1764.26*	137	8	2.43	3531.12	3523	17	20.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.87	190	425	1.06	179.20	171	21	1.76E-02	37.6	2.32E+00	
4	92.89	260	474	1.21	185.24	171	21	2.41E-02	32.5	2.43E+00	T
0	185.94	220	590	1.13	371.56	367	10	2.04E-02	44.5	3.03E+00	
1	327.42	70	134	1.20	654.85	652	9	6.51E-03	54.3	2.11E+00	
1	328.62	58	177	1.20	657.25	652	9	5.40E-03	84.5	2.10E+00	
5	1385.99	36	31	3.08	2774.03	2750	35	3.34E-03	96.1	7.35E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.887E+00	5.210E-01	1.765E-01	1.204E-02	27.693
CS-137	1.550E-01	3.228E-02	2.807E-02	3.016E-03	5.522
TL-208	3.102E-01	4.731E-02	2.414E-02	2.422E-03	12.851
BI-212	5.560E-01	1.806E-01	1.920E-01	1.847E-02	2.895
PB-212	8.044E-01	7.805E-02	4.103E-02	3.167E-03	19.604
BI-214	6.837E-01	9.541E-02	4.885E-02	4.976E-03	13.995
PB-214	6.877E-01	8.625E-02	4.723E-02	3.727E-03	14.562
RA-223	2.804E-01	1.306E-01	1.220E-01	1.123E-02	2.298
AC-228	9.367E-01	1.280E-01	8.577E-02	4.740E-03	10.921
NP-237	5.101E-01	1.616E-01	2.245E-01	3.246E-02	2.272
AM-243	1.584E-01	5.034E-02	4.900E-02	1.028E-02	3.232

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.000E-02		1.413E-02	2.280E-02	1.391E-03	-0.439
RH-101	-8.665E-03		1.529E-02	2.466E-02	3.825E-03	-0.351
SB-125	1.269E-02		3.820E-02	6.683E-02	5.481E-03	0.190
EU-155	7.372E-02		5.622E-02	9.843E-02	9.772E-03	0.749
PO-209	-9.768E-01		2.679E+00	4.570E+00	8.179E-01	-0.214
BI-211	1.301E-03		3.897E-01	6.874E-01	5.008E-02	0.002
PA-233	2.376E-02		2.707E-02	4.861E-02	4.082E-03	0.489
PA-234M	8.273E-01		1.569E+00	2.888E+00	1.660E-01	0.286
TH-234	1.072E+00	+	3.701E-01	5.475E-01	6.388E-02	1.958
U-235	1.390E-02		9.388E-02	1.574E-01	1.099E-02	0.088
NP-236	8.737E-03		3.541E-02	5.425E-02	5.960E-03	0.161
NP-239	8.016E-02		9.841E-02	1.653E-01	2.231E-02	0.485
AM-241	3.617E-02		8.857E-02	1.560E-01	1.240E-02	0.232
CM-243	-5.601E-03		5.076E-02	8.582E-02	9.780E-03	-0.065
AM-246	-2.608E-03		4.621E-02	8.046E-02	9.903E-03	-0.032
CF-249	6.664E-03		1.688E-02	2.961E-02	2.857E-03	0.225

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-NOV-2007 11:52:25

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793502_GAMMA2_400MLSAN_17187.CNF

---- Sample Information ----

Sample ID	: OH207-7935-02		
Sample Title	: SB-CA-SS-2206-ST		
Sample Quantity	: 4.41600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17187		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 18-NOV-2007 08:52:10
Decay time	: 53 08:52:10.15	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.35

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.83	454	584	1.19	149.25	142	16	20.3	3.03E+00	AM-243
										PB-214
										PB-212
2	77.12	698	506	1.01	153.79	142	16	12.9		PB-214
										PB-212
3	87.15*	326	526	1.19	173.77	164	27	26.1	7.71E-01	NP-237
										PB-214
										PB-212
3	89.93	217	520	1.22	179.30	164	27	37.7		
3	92.88*	380	587	1.36	185.18	164	27	25.7		
0	128.85	122	614	1.33	256.79	253	9	75.8		AC-228
0	185.86*	356	611	1.36	370.34	365	11	29.6		
0	209.41	94	494	1.07	417.25	413	8	84.9		AC-228
3	238.75*	1848	291	1.16	475.68	468	20	5.7	2.44E+00	PB-212
3	241.09	226	288	1.12	480.35	468	20	34.7		
3	242.21	197	288	1.24	482.57	468	20	35.0		PB-214
0	270.26	243	334	1.43	538.45	533	11	31.9		RA-223
										AC-228
0	277.25	75	274	1.09	552.38	550	8	79.1		TL-208
0	295.31*	475	276	1.22	588.35	584	9	15.8		PB-214
0	300.45	127	401	1.17	598.60	594	12	65.8		PB-212
0	328.26	145	218	1.58	654.01	650	9	40.5		
0	338.51*	342	298	1.22	674.42	670	11	22.6		AC-228
0	352.17*	817	244	1.28	701.66	696	13	10.7		PB-214
0	409.48	64	129	1.62	815.85	813	8	65.5		AC-228
0	463.06	117	194	1.53	922.64	916	12	51.4		AC-228
0	475.00	34	124	1.05	946.45	941	9	122.3		
0	510.87*	251	216	2.39	1017.96	1010	20	33.8		TL-208
0	583.49*	561	166	1.55	1162.75	1155	14	13.0		TL-208
0	609.51*	544	120	1.37	1214.65	1208	13	12.2		BI-214
0	661.78	280	88	1.44	1318.90	1314	10	17.3		CS-137
0	727.55	135	76	0.92	1450.08	1445	10	29.8		BI-212
0	795.26	80	84	2.03	1585.17	1577	14	53.3		AC-228
0	861.33	104	48	2.04	1717.03	1710	17	35.0		TL-208
0	911.19*	398	89	1.73	1816.55	1808	18	15.2		AC-228
0	934.58	74	84	4.10	1863.23	1853	24	69.5		BI-214
4	964.23	98	41	2.57	1922.43	1915	27	36.1	1.24E+00	AC-228
4	968.83*	276	20	1.71	1931.62	1915	27	13.9		AC-228
0	1119.99*	157	45	1.84	2233.47	2227	16	25.2		BI-214
0	1238.36*	66	49	0.87	2469.93	2463	17	54.4		BI-214
0	1377.45*	28	28	0.82	2747.92	2742	11	87.7		BI-214
0	1459.70*	301	16	1.89	2912.36	2904	16	13.6		K-40
0	1590.05	55	66	5.29	3173.05	3159	28	89.3		AC-228
0	1762.67*	115	14	2.46	3518.43	3509	18	24.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.93	217	520	1.22	179.30	164	27	2.01E-02	37.7	2.61E+00	
3	92.88	380	587	1.36	185.18	164	27	3.52E-02	25.7	2.71E+00	T
0	185.86	356	611	1.36	370.34	365	11	3.30E-02	29.6	3.21E+00	
3	241.09	226	288	1.12	480.35	468	20	2.09E-02	34.7	2.78E+00	
0	328.26	145	218	1.58	654.01	650	9	1.34E-02	40.5	2.20E+00	
0	475.00	34	124	1.05	946.45	941	9	3.16E-03	****	1.60E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.370E+00	3.574E-01	1.800E-01	1.159E-02	13.169
CS-137	1.537E-01	3.184E-02	2.947E-02	3.353E-03	5.215
TL-208	2.791E-01	4.649E-02	2.615E-02	2.723E-03	10.673
BI-212	5.754E-01	1.824E-01	1.831E-01	2.002E-02	3.143
PB-212	8.632E-01	8.217E-02	3.997E-02	3.054E-03	21.598
BI-214	5.144E-01	8.328E-02	4.846E-02	5.160E-03	10.615
PB-214	5.936E-01	7.805E-02	4.715E-02	3.616E-03	12.588
RA-223	3.903E-01	1.294E-01	1.271E-01	1.131E-02	3.072
AC-228	9.186E-01	1.610E-01	8.637E-02	7.505E-03	10.635
NP-237	6.011E-01	1.741E-01	1.906E-01	2.395E-02	3.153
AM-243	1.937E-01	5.512E-02	4.564E-02	9.098E-03	4.245

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.302E-03		1.381E-02	2.359E-02	1.372E-03	-0.055
RH-101	1.639E-02		1.578E-02	2.627E-02	4.101E-03	0.624
SB-125	5.434E-02		4.043E-02	7.336E-02	6.015E-03	0.741
EU-155	1.878E-02		5.427E-02	9.186E-02	8.601E-03	0.204
PO-209	-1.532E+00		2.626E+00	4.348E+00	8.337E-01	-0.352
BI-211	-3.283E-01		4.243E-01	6.962E-01	6.815E-02	-0.472
PA-233	-2.100E-03		2.627E-02	4.513E-02	3.635E-03	-0.047
PA-234M	1.724E+00		1.531E+00	2.980E+00	2.326E-01	0.578
TH-234	1.476E+00	+	4.068E-01	5.640E-01	5.642E-02	2.617
U-235	5.175E-02		9.787E-02	1.640E-01	1.197E-02	0.315
NP-236	1.128E-02		3.195E-02	5.183E-02	5.152E-03	0.218
NP-239	-2.386E-02		9.402E-02	1.620E-01	2.186E-02	-0.147
AM-241	-2.947E-02		8.070E-02	1.365E-01	8.956E-03	-0.216
CM-243	1.405E-02		4.891E-02	8.273E-02	8.944E-03	0.170
AM-246	3.736E-03		4.875E-02	8.571E-02	1.096E-02	0.044
CF-249	1.821E-02		1.712E-02	3.065E-02	2.936E-03	0.594

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-NOV-2007 11:53:44

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793503_GAMMA3_400MLSAN_17188.CNF

---- Sample Information ----

Sample ID	: OH207-7935-03		
Sample Title	: SB-CA-SS-2207-ST		
Sample Quantity	: 4.26700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17188		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 18-NOV-2007 08:53:18
Decay time	: 53 08:53:18.90	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.82

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**2} + a5*x^{**3} + a6*x^{**4} + a7*x^{**5}$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.49*	93	369	1.29	103.36	99	10	84.7		
0	63.38*	102	476	1.46	140.80	137	9	86.2		TH-234
1	74.88*	361	602	1.44	166.29	161	17	28.3	2.56E+00	AM-243
										PB-214
										PB-212
1	77.32*	658	538	1.45	171.71	161	17	16.4		PB-214
										PB-212
4	87.28	297	537	1.85	193.78	183	31	34.0	1.33E+00	NP-237
										PB-214
										PB-212
4	89.96	192	353	1.27	199.70	183	31	38.3		
4	92.78*	307	472	1.59	205.97	183	31	33.4		TH-234
0	185.75*	178	424	1.13	412.05	406	13	52.3		
0	238.52*	722	532	1.30	529.00	521	13	15.5		PB-212
0	241.77	143	277	2.04	536.22	533	8	44.6		PB-214
0	295.37*	253	205	1.51	655.01	648	12	26.3		PB-214
0	338.26	162	222	1.10	750.09	744	13	41.0		AC-228
0	351.98*	425	265	1.63	780.48	774	16	19.9		PB-214
0	462.14	70	140	1.99	1024.65	1018	14	76.0		AC-228
0	510.91*	147	152	1.60	1132.75	1124	19	48.7		TL-208
0	583.30*	299	112	1.81	1293.18	1286	18	20.9		TL-208
0	609.43*	342	128	1.54	1351.10	1343	18	19.3		BI-214
0	661.66	427	94	1.65	1466.86	1457	16	14.0		CS-137
0	768.70	54	52	1.26	1704.10	1699	11	60.0		BI-214
0	911.36*	145	76	1.51	2020.26	2011	16	32.3		AC-228
0	969.49	108	51	1.91	2149.09	2142	14	34.1		AC-228
4	1119.22*	38	23	2.50	2480.92	2475	21	71.9	3.69E+00	
4	1120.61*	60	21	2.09	2484.00	2475	21	46.6		BI-214
0	1460.69*	402	4	2.20	3237.63	3226	20	10.7		K-40
0	1764.30*	67	4	3.86	3910.40	3901	18	30.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.49	93	369	1.29	103.36	99	10	8.62E-03	84.7	2.77E+00	
4	89.96	192	353	1.27	199.70	183	31	1.78E-02	38.3	3.55E+00	
0	185.75	178	424	1.13	412.05	406	13	1.65E-02	52.3	2.82E+00	
4	1119.22	38	23	2.50	2480.92	2475	21	3.48E-03	71.9	6.81E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.959E+00	4.827E-01	2.582E-01	1.519E-02	15.334
CS-137	2.811E-01	4.416E-02	3.073E-02	2.213E-03	9.146
TL-208	1.775E-01	3.971E-02	2.800E-02	2.229E-03	6.340
PB-212	4.071E-01	7.016E-02	5.299E-02	3.961E-03	7.683
BI-214	3.862E-01	8.013E-02	5.594E-02	4.262E-03	6.903
PB-214	3.698E-01	7.939E-02	5.584E-02	4.442E-03	6.623
AC-228	4.118E-01	1.362E-01	1.033E-01	7.265E-03	3.986
TH-234	9.386E-01	3.246E-01	3.054E-01	2.734E-02	3.073
NP-237	3.956E-01	1.416E-01	1.327E-01	1.479E-02	2.981
AM-243	8.883E-02	3.037E-02	2.702E-02	5.196E-03	3.288

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	7.821E-03		1.886E-02	2.556E-02	1.355E-03	0.306
RH-101	2.947E-04		1.641E-02	2.750E-02	4.245E-03	0.011
SB-125	-2.140E-02		4.470E-02	7.622E-02	6.301E-03	-0.281
EU-155	1.034E-02		4.509E-02	7.865E-02	7.396E-03	0.131
PO-209	1.323E+00		3.159E+00	5.871E+00	1.082E+00	0.225
BI-211	-8.087E-02		4.727E-01	8.057E-01	5.802E-02	-0.100
BI-212	3.459E-01		1.505E-01	2.935E-01	2.130E-02	1.179
RA-223	1.696E-01		8.908E-02	1.605E-01	1.421E-02	1.057
PA-233	-1.382E-03		3.044E-02	5.126E-02	4.183E-03	-0.027
PA-234M	-1.409E+00		1.911E+00	3.226E+00	2.203E-01	-0.437
U-235	2.732E-02		9.677E-02	1.661E-01	1.233E-02	0.164
NP-236	2.817E-02		3.001E-02	4.465E-02	4.261E-03	0.631
NP-239	1.668E-02		1.075E-01	1.834E-01	2.453E-02	0.091
AM-241	3.274E-02		3.356E-02	5.101E-02	3.228E-03	0.642
CM-243	5.442E-03		4.085E-02	7.107E-02	7.658E-03	0.077
AM-246	1.729E-02		5.762E-02	1.061E-01	1.339E-02	0.163
CF-249	1.431E-02		1.967E-02	3.556E-02	3.542E-03	0.403

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-NOV-2007 14:59:35

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793504_GAMMA1_400MLSAN_17189.CNF

---- Sample Information ----

Sample ID	: OH207-7935-04
Sample Title	: SB-CA-SS-2208-ST
Sample Quantity	: 4.26600E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17189

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 18-NOV-2007 11:59:16
Decay time	: 53 11:59:16.21	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.98

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: [signature] Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.88*	264	304	1.02	149.18	144	16	24.7	1.16E+00	AM-243
										PB-214
										PB-212
1	77.20*	337	310	1.02	153.81	144	16	20.0		PB-214
										PB-212
5	90.04	121	304	1.18	179.52	177	14	45.7	1.19E+00	
5	93.09*	176	442	1.55	185.63	177	14	49.3		
0	143.28*	77	273	1.41	286.13	283	7	76.3		U-235
0	185.94*	161	328	1.29	371.57	368	8	43.9		
0	208.93	122	289	1.34	417.60	414	9	53.2		AC-228
5	238.66*	1107	160	1.16	477.12	470	20	7.3	2.93E+00	PB-212
5	241.70	362	241	1.87	483.21	470	20	22.6		PB-214
0	270.31	79	301	1.13	540.49	534	12	90.1		RA-223
										AC-228
0	277.88	99	265	1.52	555.66	550	12	68.9		TL-208
0	295.24*	301	212	1.08	590.42	585	9	21.1		PB-214
0	338.24*	263	226	1.56	676.51	670	14	27.5		AC-228
0	351.93*	583	193	1.30	703.92	699	12	12.8		PB-214
0	409.26	49	169	0.81	818.71	814	10	102.4		AC-228
0	462.97	92	114	1.42	926.24	921	10	48.5		AC-228
0	511.10*	157	151	1.98	1022.62	1015	18	45.3		TL-208
0	583.12*	354	93	1.17	1166.82	1160	14	16.0		TL-208
0	609.22*	445	113	1.41	1219.07	1211	15	14.3		BI-214
0	661.62	532	164	1.62	1323.97	1317	16	13.8		CS-137
0	769.79	81	69	7.55	1540.54	1531	20	55.2		BI-214
0	860.36	43	20	1.66	1721.85	1718	8	46.7		TL-208
0	911.09*	226	43	1.64	1823.40	1817	14	18.4		AC-228
0	934.19	31	22	1.89	1869.64	1865	10	67.7		BI-214
1	964.67	43	31	1.87	1930.66	1923	27	61.9	1.54E+00	AC-228
1	968.93*	150	26	1.84	1939.20	1923	27	21.9		AC-228
0	1120.56*	109	15	1.18	2242.73	2237	13	25.1		BI-214
0	1378.55	28	29	1.50	2759.15	2752	14	91.7		BI-214
0	1460.50*	351	27	1.97	2923.18	2913	17	12.8		K-40
0	1764.19*	88	18	1.27	3530.99	3524	14	30.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	90.04	121	304	1.18	179.52	177	14	1.12E-02	45.7	2.33E+00	
5	93.09	176	442	1.55	185.63	177	14	1.63E-02	49.3	2.43E+00	T
0	185.94	161	328	1.29	371.57	368	8	1.50E-02	43.9	3.03E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.731E+00	3.963E-01	2.080E-01	1.420E-02	13.128
CS-137	3.036E-01	5.313E-02	2.390E-02	2.568E-03	12.706
TL-208	1.846E-01	3.488E-02	2.008E-02	2.015E-03	9.194
PB-212	5.641E-01	5.974E-02	3.413E-02	2.634E-03	16.528
BI-214	4.398E-01	7.708E-02	4.201E-02	4.279E-03	10.470
PB-214	4.573E-01	6.874E-02	4.555E-02	3.594E-03	10.039
RA-223	1.390E-01	1.259E-01	1.111E-01	1.022E-02	1.251
AC-228	5.289E-01	1.016E-01	7.938E-02	4.387E-03	6.663
U-235	1.306E-01	1.001E-01	1.360E-01	9.491E-03	0.961
AM-243	1.361E-01	4.414E-02	4.423E-02	9.278E-03	3.077

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	7.853E-03		1.310E-02	2.249E-02	1.468E-03	0.349
RH-101	-7.246E-03		1.417E-02	2.301E-02	3.569E-03	-0.315
SB-125	1.942E-02		3.461E-02	6.217E-02	5.098E-03	0.312
EU-155	4.850E-02		4.964E-02	8.746E-02	8.684E-03	0.555
PO-209	-5.582E-01		2.406E+00	4.198E+00	7.514E-01	-0.133
BI-211	7.196E-02		3.826E-01	6.896E-01	5.024E-02	0.104
BI-212	2.837E-01		1.245E-01	2.444E-01	2.351E-02	1.161
PA-233	-2.398E-03		2.362E-02	4.118E-02	3.458E-03	-0.058
PA-234M	-8.491E-01		1.591E+00	2.683E+00	1.542E-01	-0.316
TH-234	7.889E-01	+	3.996E-01	4.981E-01	5.811E-02	1.584
NP-236	1.186E-02		3.107E-02	5.098E-02	5.600E-03	0.233
NP-237	2.987E-02		1.352E-01	2.094E-01	3.029E-02	0.143
NP-239	7.656E-02		9.408E-02	1.594E-01	2.151E-02	0.480
AM-241	-3.223E-02		7.876E-02	1.355E-01	1.077E-02	-0.238
CM-243	-1.619E-02		4.522E-02	7.603E-02	8.665E-03	-0.213
AM-246	2.046E-02		4.174E-02	7.804E-02	9.605E-03	0.262
CF-249	9.122E-04		1.630E-02	2.830E-02	2.730E-03	0.032

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Montgomery, AL

Gamma Spectroscopy Report Generated 18-NOV-2007 15:01:34

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793505_GAMMA2_400MLSAN_17190.CNF

---- Sample Information ----

Sample ID	: OH207-7935-05
Sample Title	: SB-CA-SS-2209-ST
Sample Quantity	: 3.97000E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17190

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 18-NOV-2007 12:01:18
Decay time	: 53 12:01:18.08	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.28

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Wood Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	62.91*	100	600	0.82	125.52	122	8	88.9		TH-234
2	74.83	389	638	0.98	149.25	146	15	22.3	1.76E+00	AM-243
										PB-214
										PB-212
2	77.10	702	547	1.01	153.77	146	15	13.2		PB-214
										PB-212
3	87.15*	280	625	1.17	173.78	169	24	31.1	1.58E+00	NP-237
										PB-214
										PB-212
3	89.96	193	552	1.18	179.37	169	24	42.8		
3	92.93*	297	541	1.26	185.28	169	24	32.3		TH-234
0	128.77	104	521	0.93	256.65	253	8	78.8		AC-228
3	186.02*	298	445	1.30	370.66	367	9	28.4	2.16E+00	
0	209.22	175	400	1.12	416.87	413	8	42.5		AC-228
4	238.76*	1819	304	1.08	475.71	471	16	5.6	1.80E+00	PB-212
4	241.71	370	447	1.79	481.59	471	16	31.4		PB-214
0	270.53	167	336	1.51	538.98	534	10	43.9		RA-223
										AC-228
0	295.33*	471	326	1.17	588.40	583	11	17.7		PB-214
0	300.32	130	266	1.18	598.35	594	10	50.2		PB-212
0	328.15	121	273	1.22	653.80	650	11	55.4		
0	338.59*	381	260	1.16	674.59	670	11	19.6		AC-228
0	352.12*	784	337	1.20	701.55	697	12	11.9		PB-214
0	463.48	109	147	1.00	923.50	918	10	46.1		AC-228
0	511.17*	203	234	1.81	1018.56	1010	18	41.0		TL-208
0	583.36*	607	116	1.52	1162.49	1157	12	10.9		TL-208
0	609.49*	679	129	1.36	1214.61	1209	13	10.5		BI-214
0	662.07	82	92	1.40	1319.48	1315	9	47.4		CS-137
0	727.42	131	63	1.56	1449.83	1445	9	28.0		BI-212
0	794.87	102	80	1.55	1584.40	1576	17	45.1		AC-228
0	860.60	101	49	1.81	1715.56	1708	14	35.5		TL-208
0	911.23*	435	74	1.88	1816.62	1807	20	13.9		AC-228
1	964.58	52	62	1.93	1923.13	1919	19	55.8	2.32E+00	AC-228
1	968.93*	207	66	1.93	1931.82	1919	19	21.9		AC-228
0	1120.59*	111	80	1.81	2234.66	2226	19	43.8		BI-214
0	1459.78*	309	17	2.25	2912.53	2903	22	13.8		K-40
0	1629.25	17	12	0.88	3251.47	3245	12	94.9		
0	1729.32	50	11	1.26	3451.70	3440	24	45.8		BI-214
0	1762.60*	103	4	2.63	3518.29	3511	17	22.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.96	193	552	1.18	179.37	169	24	1.79E-02	42.8	2.61E+00	
3	186.02	298	445	1.30	370.66	367	9	2.76E-02	28.4	3.21E+00	
0	328.15	121	273	1.22	653.80	650	11	1.12E-02	55.4	2.20E+00	
0	1629.25	17	12	0.88	3251.47	3245	12	1.57E-03	94.9	6.21E-01	

Flags: "T" = Tentatively associated

BENCH SHEET

Method:	Gamma Spec (DOE 4.5.2.3)	Project Name:	Cabrera Services-Oahu, HI
Analysis Type:	Gamma (DOE 21 day ing	Project Location:	
Matrix:	Soil	Project Number:	FOAH2/L
Date Received:	9/27/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7933 7936			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7936-PB		9/27/2007 8:45:00 AM	
SCAQC	7936-LD1 OH207-7936-01	SB-CZ-SS-2205-SD	9/26/2007	
SCAQC	7936-LC1		9/27/2007 8:45:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7936-01	SB-CZ-SS-2205-SD	9/26/2007	
OH207	7936-02	SB-CZ-SS-2206-SD	9/26/2007	
OH207	7936-03	SB-CZ-SS-2207-SD	9/26/2007	
OH207	7936-04	SB-CZ-SS-2208-SD	9/26/2007	
OH207	7936-05	SB-CZ-SS-2209-SD	9/26/2007	

Radiochemistry Reviewer 11/19/07 Date

QA Reviewer 11/20/2007 Date

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-17-07 1539 G2 CW	60	SCAQC	7935	LCI	—	9/27/07 0845	CTRL SAMP S-142	SOIL	640g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-17-07 1648 G2 CW	180	SCAQC	7935	LD1	—	9/26/07	DUP 7935-01	↓	464.8 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-18-07 0850 G1 IC	↓	OH207	↓	01	—	↓	SB-CA-SS-2205-ST	↓	464.8 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-18-07 0852 G2 IC		↓		02	—		2206-ST		441.6 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-18-07 0853 G2 IC				03	—		2207-ST		426.7 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-18-07 12:00 G1 IC				04	—		2208-ST		426.6 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-18-07 12:01 G1 IC				05	—		2209-ST		397.0 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-18-07 12:05 G1 IC	180	SCAQC	7936	PB1	—	9/27/07 0845	PREP BLK	LIQUID	400g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-18-07 1502 G1 CW	60	↓	↓	LC1	—	↓	CTRL SAMP S-142	SOIL	640g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐
11-18-07 1503 G2 CW	180	↓	↓	LD1	—	9/26/07	DUP 7936-01	↓	466.6 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ____ ☐

amma1 = G1
amma2 = G2

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SCA-Form 012 Rev. 1

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-18-07 1923 G1 CW	180	OH207	7936	01	–	9/26/07	SB-CZ-SS-2205-SD	SOIL	466.6 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-18-07 1506 G3 CW				02	–		2206-SD		350.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-18-07 1603 G1 CW				03	–		2207-SD		406.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-18-07 1806 G2 CW				04	–		2208-SD		422.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-18-07 1807 G3 CW				05	–		2209-SD		447.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 0925 G2 LK	180	SCARC	7937	PB1	–	9/27/07 08:45	PREP BLK	LIQUID	400 ml	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1509 G2 LK	60			LC1	–		CTRL SAMP S-NZ	SOIL	640 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 0950 G3 LK	180			LD1	–	9/26/07	DUP 7937-01		445.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 1252 G1 LK		OH207		01	–		SB-CZ-SS-2210-ST		445.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 1253 G2 LK				02	–		2211-ST		464.5 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

amm = G1
amm = G2

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SCA-Form 012 Rev. 1

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SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-NOV-2007 15:05:28

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7936PB1_GAMMA3_400MLSA_17191.CNF

---- Sample Information ----

Sample ID	: SCAQC-7936-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17191		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 18-NOV-2007 12:05:08
Decay time	: 52 03:20:08.74	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.55

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw %Err	Fit	Nuclides
0	510.73*	48	62	2.71	1132.34	1123	18106.0		
0	609.47*	34	69	1.34	1351.18	1345	12107.8		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	510.73	48	62	2.71	1132.34	1123	18	4.48E-03	****	1.31E+00	T
0	609.47	34	69	1.34	1351.18	1345	12	3.18E-03	****	1.13E+00	T

Flags: "T" = Tentatively associated

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	-1.838E-02		1.472E-01	2.924E-01	1.721E-02	-0.063
CO-60	-2.135E-03		1.289E-02	2.326E-02	1.415E-03	-0.092
RH-101	-5.151E-03		1.259E-02	2.053E-02	3.168E-03	-0.251
SB-125	1.796E-02		3.103E-02	5.818E-02	4.810E-03	0.309
CS-137	7.084E-03		1.277E-02	2.402E-02	1.729E-03	0.295
EU-155	-2.009E-03		3.334E-02	5.830E-02	5.482E-03	-0.034
TL-208	4.692E-03		1.488E-02	2.738E-02	2.179E-03	0.171
PO-209	-1.741E+00		2.642E+00	4.464E+00	8.225E-01	-0.390
BI-211	-4.596E-01		3.521E-01	5.140E-01	3.701E-02	-0.894
BI-212	6.335E-02		1.119E-01	2.079E-01	1.509E-02	0.305
PB-212	-1.310E-02		2.457E-02	4.063E-02	3.037E-03	-0.322
BI-214	4.136E-02	+	4.471E-02	6.581E-02	5.014E-03	0.629
PB-214	3.543E-03		2.902E-02	4.949E-02	3.937E-03	0.072
RA-223	2.418E-02		6.212E-02	1.095E-01	9.693E-03	0.221
AC-228	-2.113E-02		5.209E-02	9.292E-02	6.533E-03	-0.227
PA-233	-7.066E-03		2.482E-02	4.160E-02	3.395E-03	-0.170
PA-234M	7.554E-01		1.542E+00	3.026E+00	2.066E-01	0.250
TH-234	-8.124E-02		1.920E-01	3.481E-01	3.117E-02	-0.233
U-235	-6.927E-02		7.584E-02	1.239E-01	9.194E-03	-0.559
NP-236	-1.207E-02		1.961E-02	3.083E-02	2.942E-03	-0.391
NP-237	2.112E-02		6.108E-02	1.033E-01	1.151E-02	0.204
NP-239	-2.460E-02		7.901E-02	1.334E-01	1.785E-02	-0.184
AM-241	-8.002E-02		2.522E-02	3.486E-02	2.206E-03	-2.295
AM-243	-1.546E-02		1.244E-02	1.877E-02	3.610E-03	-0.824
CM-243	5.151E-03		2.993E-02	5.292E-02	5.702E-03	0.097
AM-246	-9.191E-03		4.350E-02	7.824E-02	9.876E-03	-0.117
CF-249	-4.371E-03		1.409E-02	2.463E-02	2.453E-03	-0.177

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-NOV-2007 16:02:33

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7936LC1_GAMMA1_400MLSA_17192.CNF

---- Sample Information ----

Sample ID	: SCAQC-7936-LC1
Sample Title	: CTRL SAMP S-142
Sample Quantity	: 6.40000E+02 G
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17192

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 18-NOV-2007 15:02:00
Decay time	: 52 06:17:00.89	% dead time	: 0.4%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:14.84

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**2} + a5*x^{**3} + a6*x^{**4} + a7*x^{**5}$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Moore Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	59.63	20492	7581	0.98	118.63	113	12	2.2		AM-241
0	88.11	9634	4911	1.01	175.66	170	12	3.6		
0	122.11	1567	2476	0.99	243.74	240	7	11.7		
0	136.43	205	2365	1.02	272.42	270	7	79.8		
0	238.51*	527	2621	1.39	476.83	472	9	36.2		
0	351.74*	148	1628	1.04	703.53	700	8	96.2		
0	583.38*	166	962	1.54	1167.33	1163	9	69.2		
0	661.60	26803	1267	1.50	1323.93	1317	13	1.3		CS-137
0	1173.06	21546	803	1.84	2347.82	2338	18	1.5		CO-60
0	1332.31	19284	316	1.99	2666.58	2657	21	1.5		CO-60

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	88.11	9634	4911	1.01	175.66	170	12	2.68E+00	3.6	2.26E+00	T
0	122.11	1567	2476	0.99	243.74	240	7	4.35E-01	11.7	3.05E+00	
0	136.43	205	2365	1.02	272.42	270	7	5.70E-02	79.8	3.16E+00	
0	238.51	527	2621	1.39	476.83	472	9	1.47E-01	36.2	2.66E+00	T
0	351.74	148	1628	1.04	703.53	700	8	4.10E-02	96.2	1.99E+00	T
0	583.38	166	962	1.54	1167.33	1163	9	4.61E-02	69.2	1.33E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
CO-60	3.128E+01	1.965E+00	8.983E-02	5.862E-03	348.198
CS-137	3.056E+01	3.309E+00	1.647E-01	1.770E-02	185.528
AM-241	7.443E+01	6.146E+00	1.013E+00	8.053E-02	73.479

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	5.366E-01		3.774E-01	7.398E-01	5.049E-02	0.725
RH-101	1.861E-02		7.743E-02	1.258E-01	1.951E-02	0.148
SB-125	2.134E-01		2.718E-01	4.577E-01	3.753E-02	0.466
EU-155	-2.254E-01		2.577E-01	4.233E-01	4.203E-02	-0.532
TL-208	1.729E-01	+	1.209E-01	1.643E-01	1.649E-02	1.052
PO-209	1.377E+01		2.404E+01	4.049E+01	7.248E+00	0.340
BI-211	-1.873E+00		3.047E+00	5.059E+00	3.685E-01	-0.370
BI-212	-2.904E-01		7.027E-01	1.186E+00	1.140E-01	-0.245
PB-212	5.376E-01	+	1.989E-01	2.410E-01	1.860E-02	2.231
BI-214	1.498E-01		1.851E-01	3.065E-01	3.122E-02	0.489
PB-214	2.313E-01	+	2.233E-01	3.068E-01	2.421E-02	0.754
RA-223	7.368E-02		4.092E-01	7.018E-01	6.458E-02	0.105
AC-228	5.047E-01		4.663E-01	7.941E-01	4.388E-02	0.636
PA-233	7.360E-02		1.550E-01	2.649E-01	2.225E-02	0.278
PA-234M	-7.209E+00		1.407E+01	2.309E+01	1.327E+00	-0.312
TH-234	5.930E-01		1.233E+00	1.883E+00	2.197E-01	0.315
U-235	-1.580E-02		4.446E-01	7.319E-01	5.110E-02	-0.022
NP-236	1.230E-01		1.494E-01	2.527E-01	2.776E-02	0.487
NP-237	1.488E+01		2.285E+00	1.536E+00	2.221E-01	9.686
NP-239	3.392E-02		5.468E-01	8.781E-01	1.185E-01	0.039
AM-243	-4.450E-02		1.446E-01	2.434E-01	5.107E-02	-0.183
CM-243	1.234E-01		2.349E-01	3.954E-01	4.506E-02	0.312
AM-246	-3.808E-01		4.313E-01	6.929E-01	8.528E-02	-0.550
CF-249	6.408E-02		1.075E-01	1.817E-01	1.753E-02	0.353

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-NOV-2007 18:03:22

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7936LD1_GAMMA2_400MLSA_17193.CNF

---- Sample Information ----

Sample ID	: SCAQC-7936-LD1		
Sample Title	: DUP 7936-01		
Sample Quantity	: 4.66600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17193		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 18-NOV-2007 15:03:06
Decay time	: 53 15:03:06.70	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.38

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Mowat Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.51*	92	632	1.38	126.71	123	8	99.3		TH-234
3	74.72	427	737	1.31	149.02	142	16	24.7	2.74E+00	AM-243
										PB-214
										PB-212
3	77.07	674	554	0.99	153.70	142	16	13.6		PB-214
										PB-212
0	87.14*	193	570	1.29	173.74	171	6	42.3		NP-237
										PB-214
										PB-212
3	89.86	216	428	1.12	179.17	177	17	31.3	1.64E+00	
3	92.95*	347	637	1.36	185.33	177	17	28.7		TH-234
0	186.16*	237	626	1.38	370.94	366	10	42.9		
0	209.17	179	486	1.26	416.76	413	9	46.9		AC-228
4	238.75*	1950	286	1.20	475.69	469	18	5.4	4.36E+00	PB-212
4	241.46	427	357	1.79	481.09	469	18	26.2		PB-214
3	270.00	123	215	1.24	537.93	532	12	45.9	2.15E+00	RA-223
										AC-228
3	270.99	94	236	1.36	539.90	532	12	65.2		
0	277.90	90	288	0.84	553.68	550	9	71.4		TL-208
3	295.39*	481	253	1.44	588.53	582	22	15.0	3.24E+00	PB-214
3	300.27	192	263	1.71	598.25	582	22	35.3		PB-212
0	328.56	76	338	0.86	654.60	650	10	92.6		
0	338.57*	367	319	1.16	674.55	670	11	21.9		AC-228
0	352.01*	751	290	1.31	701.34	694	14	12.2		PB-214
0	463.57	109	212	1.44	923.66	918	13	58.7		AC-228
0	511.01*	218	174	1.45	1018.25	1012	14	32.5		TL-208
0	583.27*	740	139	1.43	1162.32	1155	15	10.2		TL-208
0	609.50*	481	132	1.45	1214.62	1210	13	13.8		BI-214
0	662.31	71	187	1.82	1319.95	1314	19	95.4		CS-137
0	727.52	168	58	1.51	1450.02	1445	9	22.6		BI-212
0	768.09	55	80	1.02	1530.97	1525	12	71.1		BI-214
0	773.31	49	66	1.64	1541.38	1536	11	69.6		
0	795.84	84	107	1.95	1586.33	1576	20	64.9		AC-228
0	860.18	96	75	1.56	1714.74	1707	15	44.3		TL-208
0	911.10*	463	64	1.29	1816.36	1810	13	11.9		AC-228
1	964.56	75	39	1.93	1923.09	1915	23	43.4	6.96E-01	AC-228
1	968.64*	283	44	1.77	1931.23	1915	23	15.2		AC-228
0	1120.23*	102	77	2.19	2233.95	2224	17	44.6		BI-214
0	1377.22*	31	25	1.64	2747.46	2740	11	74.9		BI-214
0	1459.70*	440	23	1.88	2912.35	2905	16	11.1		K-40
0	1587.64*	46	44	1.53	3168.22	3161	17	71.7		AC-228
0	1763.38*	90	43	3.03	3519.84	3510	18	41.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.86	216	428	1.12	179.17	177	17	2.00E-02	31.3	2.60E+00	
0	186.16	237	626	1.38	370.94	366	10	2.19E-02	42.9	3.21E+00	
3	270.99	94	236	1.36	539.90	532	12	8.68E-03	65.2	2.56E+00	
0	328.56	76	338	0.86	654.60	650	10	7.08E-03	92.6	2.20E+00	
0	773.31	49	66	1.64	1541.38	1536	11	4.58E-03	69.6	1.08E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.277E+00	4.215E-01	1.560E-01	1.004E-02	21.008
CS-137	3.677E-02	3.532E-02	2.562E-02	2.915E-03	1.435
TL-208	3.483E-01	5.080E-02	2.399E-02	2.499E-03	14.517
BI-212	6.756E-01	1.693E-01	1.910E-01	2.089E-02	3.536
PB-212	8.624E-01	8.073E-02	3.932E-02	3.005E-03	21.934
BI-214	4.299E-01	7.479E-02	4.062E-02	4.325E-03	10.585
PB-214	5.163E-01	7.440E-02	4.367E-02	3.348E-03	11.823
RA-223	1.870E-01	8.750E-02	1.213E-01	1.079E-02	1.542
AC-228	1.012E+00	1.493E-01	8.518E-02	7.401E-03	11.880
TH-234	1.275E+00	3.871E-01	3.839E-01	3.840E-02	3.321
NP-237	3.366E-01	1.486E-01	2.240E-01	2.815E-02	1.503
AM-243	1.725E-01	5.471E-02	4.516E-02	9.002E-03	3.819

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.299E-03		1.293E-02	2.234E-02	1.299E-03	-0.058
RH-101	-7.655E-03		1.532E-02	2.434E-02	3.800E-03	-0.315
SB-125	3.720E-02		3.577E-02	6.449E-02	5.287E-03	0.577
EU-155	4.857E-02		5.386E-02	9.231E-02	8.643E-03	0.526
PO-209	1.265E+00		2.686E+00	4.875E+00	9.347E-01	0.259
BI-211	-2.405E-01		4.263E-01	7.122E-01	6.971E-02	-0.338
PA-233	9.933E-03		2.653E-02	4.632E-02	3.731E-03	0.214
PA-234M	-6.197E-02		1.597E+00	2.794E+00	2.181E-01	-0.022
U-235	7.868E-02		9.457E-02	1.597E-01	1.166E-02	0.493
NP-236	3.599E-02		3.435E-02	5.347E-02	5.316E-03	0.673
NP-239	3.805E-02		9.295E-02	1.633E-01	2.204E-02	0.233
AM-241	1.026E-01		8.733E-02	1.401E-01	9.191E-03	0.733
CM-243	3.040E-02		4.824E-02	8.222E-02	8.889E-03	0.370
AM-246	4.066E-02		4.495E-02	8.506E-02	1.088E-02	0.478
CF-249	-9.013E-03		1.641E-02	2.718E-02	2.604E-03	-0.332

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 12:24:55

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793601_GAMMA1_400MLSAN_17199.CNF

---- Sample Information ----

Sample ID	: OH207-7936-01		
Sample Title	: SB-CZ-SS-2205-SD		
Sample Quantity	: 4.66600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17199		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 19-NOV-2007 09:24:37
Decay time	: 54 09:24:37.73	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.38

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.93*	307	453	0.82	149.26	145	14	23.5	6.01E-01	AM-243 PB-214 PB-212
2	77.22*	627	480	1.01	153.85	145	14	13.9		PB-214 PB-212
0	87.31	252	575	1.29	174.07	171	7	34.0		NP-237 PB-214 PB-212
3	89.96	138	434	0.82	179.37	177	13	47.2	1.71E+00	
3	93.02*	218	541	1.24	185.49	177	13	40.0		
0	129.31	124	408	1.05	258.16	255	7	57.4		AC-228
0	186.06*	342	569	1.26	371.80	367	12	30.7		
0	209.22	158	463	1.03	418.17	415	9	51.5		AC-228
5	238.63*	1955	265	1.16	477.06	470	20	5.3	3.77E+00	PB-212
5	241.64	429	365	1.64	483.09	470	20	22.5		PB-214
1	269.57	116	148	1.32	539.02	536	16	40.7	6.60E+00	RA-223
1	270.53	110	173	1.17	540.94	536	16	48.6		AC-228
1	271.68	55	198	1.32	543.24	536	16	105.3		
0	276.87	58	242	1.10	553.64	552	8	96.2		TL-208
0	295.17*	384	267	1.20	590.27	585	10	19.1		PB-214
0	299.80	142	244	1.48	599.55	595	9	43.0		PB-212
0	327.53	122	205	1.29	655.07	651	8	44.4		
0	338.30*	391	255	1.09	676.63	671	11	19.0		AC-228
0	351.82*	652	247	1.25	703.70	699	11	12.3		PB-214
0	409.58	53	135	1.03	819.35	816	8	81.6		AC-228
0	462.96	138	200	1.49	926.23	918	14	46.5		AC-228
0	510.77*	293	196	1.73	1021.96	1015	17	26.9		TL-208
0	562.87	42	57	1.00	1126.26	1123	7	67.4		
0	582.97*	630	185	1.26	1166.51	1161	13	12.1		TL-208
0	609.12*	502	155	1.38	1218.87	1213	13	13.7		BI-214
0	661.61	90	133	1.58	1323.96	1317	15	59.1		CS-137
0	727.47*	103	126	1.16	1455.81	1449	12	48.3		BI-212
0	794.96	89	43	1.13	1590.92	1587	9	34.5		AC-228
0	862.19	47	124	1.64	1725.50	1717	17	112.8		TL-208
0	910.93*	459	58	1.62	1823.08	1818	11	11.5		AC-228
0	933.74	37	65	1.49	1868.75	1862	13	96.2		BI-214
1	964.51	95	49	1.87	1930.34	1925	20	32.3	1.87E+00	AC-228
1	968.69*	289	30	1.81	1938.71	1925	20	14.4		AC-228
0	1120.29*	105	70	2.19	2242.19	2237	16	41.4		BI-214
0	1173.60	24	26	0.96	2348.91	2343	9	87.0		
0	1237.69	46	26	1.99	2477.20	2473	9	50.5		BI-214
0	1460.39*	487	49	1.94	2922.96	2915	17	11.4		K-40
0	1495.11	30	21	1.56	2992.44	2986	14	75.4		
0	1587.96	52	26	0.91	3178.29	3169	15	51.0		AC-228
0	1619.82	32	15	0.92	3242.04	3236	17	62.4		BI-212
0	1763.96*	90	10	2.38	3530.52	3525	14	26.9		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.96	138	434	0.82	179.37	177	13	1.27E-02	47.2	2.33E+00	
3	93.02	218	541	1.24	185.49	177	13	2.02E-02	40.0	2.43E+00	T
0	186.06	342	569	1.26	371.80	367	12	3.17E-02	30.7	3.03E+00	
1	271.68	55	198	1.32	543.24	536	16	5.12E-03	****	2.43E+00	
0	327.53	122	205	1.29	655.07	651	8	1.13E-02	44.4	2.11E+00	
0	562.87	42	57	1.00	1126.26	1123	7	3.89E-03	67.4	1.37E+00	
0	1173.60	24	26	0.96	2348.91	2343	9	2.24E-03	87.0	8.23E-01	T
0	1495.11	30	21	1.56	2992.44	2986	14	2.74E-03	75.4	6.96E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.460E+00	4.603E-01	1.889E-01	1.289E-02	18.323
CS-137	4.717E-02	2.834E-02	2.420E-02	2.601E-03	1.949
TL-208	3.004E-01	4.711E-02	2.416E-02	2.425E-03	12.433
BI-212	4.127E-01	2.032E-01	1.849E-01	1.778E-02	2.233
PB-212	9.110E-01	8.550E-02	3.741E-02	2.887E-03	24.351
BI-214	4.535E-01	7.738E-02	4.582E-02	4.667E-03	9.896
PB-214	4.676E-01	6.849E-02	4.621E-02	3.647E-03	10.119
RA-223	1.859E-01	7.758E-02	1.114E-01	1.025E-02	1.669
AC-228	9.815E-01	1.249E-01	8.397E-02	4.641E-03	11.689
NP-237	4.960E-01	1.833E-01	2.231E-01	3.226E-02	2.223
AM-243	1.447E-01	4.561E-02	4.811E-02	1.009E-02	3.008

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.607E-02	+	1.401E-02	2.009E-02	1.311E-03	0.800
RH-101	2.710E-03		1.478E-02	2.463E-02	3.820E-03	0.110
SB-125	9.702E-03		3.522E-02	6.173E-02	5.063E-03	0.157
EU-155	5.525E-02		5.576E-02	9.703E-02	9.634E-03	0.569
PO-209	-1.463E+00		2.529E+00	4.222E+00	7.557E-01	-0.346
BI-211	-1.378E-01		3.769E-01	6.468E-01	4.712E-02	-0.213
PA-233	-2.147E-03		2.449E-02	4.252E-02	3.571E-03	-0.051
PA-234M	-2.952E-01		1.500E+00	2.609E+00	1.500E-01	-0.113
TH-234	8.926E-01	+	3.718E-01	5.375E-01	6.271E-02	1.661
U-235	1.170E-01		9.204E-02	1.596E-01	1.114E-02	0.733
NP-236	2.201E-02		3.116E-02	5.364E-02	5.893E-03	0.410
NP-239	-2.992E-02		9.714E-02	1.567E-01	2.114E-02	-0.191
AM-241	3.297E-03		8.442E-02	1.472E-01	1.170E-02	0.022
CM-243	-1.396E-03		4.871E-02	8.265E-02	9.419E-03	-0.017
AM-246	-1.598E-03		4.325E-02	7.580E-02	9.329E-03	-0.021
CF-249	8.379E-03		1.623E-02	2.868E-02	2.767E-03	0.292

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-NOV-2007 18:06:18

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793602_GAMMA3_400MLSAN_17194.CNF

---- Sample Information ----

Sample ID	: OH207-7936-02		
Sample Title	: SB-CZ-SS-2206-SD		
Sample Quantity	: 3.50000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17194		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 18-NOV-2007 15:06:03
Decay time	: 53 15:06:03.23	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.01

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.26*	190	688	1.34	140.54	135	12	60.1		TH-234
1	74.88*	562	568	1.44	166.29	157	21	19.2	2.04E+00	AM-243
										PB-214
										PB-212
1	77.12*	902	489	1.30	171.26	157	21	11.9		PB-214
										PB-212
2	87.25	369	543	1.62	193.70	178	36	26.9	1.06E+00	NP-237
										PB-214
										PB-212
2	89.95	215	431	1.39	199.70	178	36	39.0		
2	92.80*	353	459	1.55	206.00	178	36	28.8		TH-234
0	128.87	104	454	1.88	285.97	282	11	81.9		AC-228
0	185.96*	114	398	1.34	412.50	407	11	74.2		
0	209.32	122	292	1.61	464.28	460	9	53.6		AC-228
3	238.71*	1332	251	1.40	529.42	521	21	7.1	1.29E+00	PB-212
3	241.62	262	247	2.04	535.88	521	21	35.2		PB-214
0	270.64	91	248	1.37	600.20	593	11	70.1		RA-223
										AC-228
1	295.37*	226	183	1.53	655.01	645	26	26.3	7.64E-01	PB-214
1	300.17	89	187	1.66	665.65	645	26	64.2		PB-212
0	328.33	84	173	1.19	728.07	723	12	66.7		
0	338.42	311	177	1.74	750.43	743	13	20.9		AC-228
0	351.96*	324	228	1.52	780.45	774	13	22.6		PB-214
0	463.54	95	103	1.70	1027.76	1021	12	48.4		AC-228
0	510.88*	197	150	2.39	1132.68	1122	20	37.5		TL-208
0	583.16*	388	116	1.75	1292.89	1285	16	16.4		TL-208
0	609.37*	280	113	1.56	1350.97	1344	15	20.8		BI-214
0	727.36*	70	89	1.74	1612.49	1607	15	63.6		BI-212
0	796.11	50	73	1.12	1764.85	1754	16	80.5		AC-228
0	911.24*	275	49	1.66	2019.99	2011	18	17.4		AC-228
2	964.58	61	29	2.12	2138.22	2133	22	41.6	1.54E+00	AC-228
2	968.91	173	32	1.82	2147.81	2133	22	20.1		AC-228
0	1120.62*	67	24	1.46	2484.02	2475	17	43.6		BI-214
0	1460.84*	88	4	1.98	3237.97	3229	18	27.0		K-40
0	1764.79*	45	14	2.15	3911.48	3904	14	48.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.95	215	431	1.39	199.70	178	36	1.99E-02	39.0	3.55E+00	
0	185.96	114	398	1.34	412.50	407	11	1.06E-02	74.2	2.81E+00	
0	328.33	84	173	1.19	728.07	723	12	7.75E-03	66.7	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.062E+00	2.930E-01	2.630E-01	1.547E-02	4.039
TL-208	2.803E-01	5.107E-02	3.343E-02	2.661E-03	8.385
BI-212	4.368E-01	2.796E-01	3.081E-01	2.236E-02	1.418
PB-212	9.157E-01	9.471E-02	5.543E-02	4.143E-03	16.521
BI-214	3.846E-01	8.528E-02	6.425E-02	4.895E-03	5.987
PB-214	3.438E-01	8.233E-02	6.497E-02	5.168E-03	5.293
RA-223	2.165E-01	1.531E-01	1.672E-01	1.480E-02	1.295
AC-228	9.486E-01	1.782E-01	1.206E-01	8.482E-03	7.863
TH-234	1.315E+00	3.967E-01	3.686E-01	3.300E-02	3.567
NP-237	5.999E-01	1.748E-01	1.602E-01	1.785E-02	3.745
AM-243	1.686E-01	4.583E-02	3.348E-02	6.438E-03	5.037

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-6.431E-03		1.670E-02	2.898E-02	1.764E-03	-0.222
RH-101	-8.960E-03		1.954E-02	3.207E-02	4.950E-03	-0.279
SB-125	1.250E-02		5.118E-02	9.116E-02	7.536E-03	0.137
CS-137	2.051E-02		2.284E-02	4.176E-02	3.006E-03	0.491
EU-155	8.345E-02		5.658E-02	1.014E-01	9.532E-03	0.823
PO-209	8.578E-01		3.375E+00	6.282E+00	1.157E+00	0.137
BI-211	2.157E-01		6.032E-01	1.071E+00	7.713E-02	0.201
PA-233	2.231E-03		3.782E-02	6.399E-02	5.222E-03	0.035
PA-234M	1.948E+00		2.370E+00	4.565E+00	3.117E-01	0.427
U-235	2.858E-02		1.206E-01	2.067E-01	1.534E-02	0.138
NP-236	6.272E-02		3.705E-02	5.654E-02	5.396E-03	1.109
NP-239	-5.869E-02		1.298E-01	2.157E-01	2.886E-02	-0.272
AM-241	6.580E-02		4.297E-02	6.649E-02	4.207E-03	0.990
CM-243	-2.521E-02		5.176E-02	8.813E-02	9.497E-03	-0.286
AM-246	5.056E-02		6.435E-02	1.247E-01	1.574E-02	0.406
CF-249	1.251E-02		2.160E-02	3.912E-02	3.896E-03	0.320

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-NOV-2007 19:03:28

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793603_GAMMA1_400MLSAN_17195.CNF

---- Sample Information ----

Sample ID	: OH207-7936-03
Sample Title	: SB-CZ-SS-2207-SD
Sample Quantity	: 4.06000E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17195

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 18-NOV-2007 16:03:07
Decay time	: 53 16:03:07.31	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.95

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**2} + a5*x^{**3} + a6*x^{**4} + a7*x^{**5}$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	75.03*	182	418	0.96	149.46	146	17	37.4	1.28E+00	AM-243 PB-214 PB-212
3	77.22*	435	310	0.85	153.86	146	17	15.8		PB-214 PB-212
2	87.44	235	314	1.15	174.33	171	12	28.6	2.98E+00	NP-237 PB-214 PB-212
2	90.08	155	312	1.11	179.61	171	12	41.7		
0	93.19*	234	480	1.44	185.84	182	10	38.9		
0	129.17	67	367	1.09	257.88	254	8	102.0		AC-228
0	186.20*	146	429	1.29	372.07	368	10	57.4		
0	209.35	97	335	1.12	418.43	414	9	71.2		AC-228
0	238.64*	963	444	1.00	477.08	471	10	10.6		PB-212
1	241.21	92	87	1.05	482.23	481	7	29.5	3.95E+00	
1	242.13	122	181	1.22	484.08	481	7	40.2		PB-214
0	270.48	109	234	1.79	540.83	535	11	57.7		RA-223 AC-228
0	295.21*	318	229	1.16	590.34	585	11	21.7		PB-214
0	300.41	64	155	0.87	600.76	597	8	72.1		PB-212
0	327.87	52	172	0.98	655.74	651	9	95.7		
0	338.25*	272	169	1.27	676.54	672	10	21.9		AC-228
0	351.95*	521	186	1.28	703.96	699	11	13.6		PB-214
0	463.08	112	89	1.49	926.47	922	10	37.0		AC-228
0	510.61*	130	141	2.18	1021.63	1014	16	50.3		TL-208
0	583.15*	319	104	1.35	1166.88	1161	13	17.6		TL-208
0	609.21*	391	117	1.28	1219.05	1214	12	15.2		BI-214
0	662.69	81	159	4.38	1326.12	1318	22	81.2		CS-137
0	726.95*	85	54	1.38	1454.76	1449	11	40.8		BI-212
0	768.12	44	54	1.34	1537.19	1533	10	69.0		BI-214
0	795.30	38	53	1.60	1591.60	1586	10	77.8		AC-228
0	860.82	57	86	2.04	1722.78	1716	16	79.8		TL-208
0	911.11*	281	49	1.41	1823.45	1816	15	16.4		AC-228
1	964.82	53	47	1.87	1930.97	1925	20	50.5	1.02E+00	AC-228
1	968.90*	151	23	1.69	1939.13	1925	20	21.7		AC-228
0	1119.95*	100	33	2.08	2241.52	2235	16	32.8		BI-214
0	1460.44*	401	36	1.80	2923.06	2914	15	12.0		K-40
0	1764.25*	52	10	2.19	3531.10	3526	10	37.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	90.08	155	312	1.11	179.61	171	12	1.43E-02	41.7	2.33E+00	
0	93.19	234	480	1.44	185.84	182	10	2.17E-02	38.9	2.44E+00	T
0	186.20	146	429	1.29	372.07	368	10	1.35E-02	57.4	3.03E+00	
1	241.21	92	87	1.05	482.23	481	7	8.52E-03	29.5	2.64E+00	
0	327.87	52	172	0.98	655.74	651	9	4.79E-03	95.7	2.11E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.280E+00	4.536E-01	2.123E-01	1.449E-02	15.449
CS-137	4.868E-02	3.985E-02	2.600E-02	2.793E-03	1.873
TL-208	1.748E-01	3.538E-02	2.317E-02	2.325E-03	7.546
BI-212	3.920E-01	1.644E-01	1.708E-01	1.643E-02	2.294
PB-212	5.155E-01	6.742E-02	5.788E-02	4.467E-03	8.906
BI-214	4.054E-01	7.435E-02	4.538E-02	4.622E-03	8.935
PB-214	4.294E-01	6.762E-02	4.450E-02	3.511E-03	9.650
RA-223	2.002E-01	1.170E-01	1.210E-01	1.114E-02	1.654
AC-228	6.891E-01	1.192E-01	7.811E-02	4.316E-03	8.823
NP-237	5.324E-01	1.708E-01	2.115E-01	3.058E-02	2.518
AM-243	9.868E-02	4.232E-02	4.820E-02	1.011E-02	2.047

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.620E-03		1.438E-02	2.459E-02	1.605E-03	-0.066
RH-101	-3.605E-03		1.484E-02	2.445E-02	3.793E-03	-0.147
SB-125	-1.291E-02		3.653E-02	6.182E-02	5.070E-03	-0.209
EU-155	5.323E-02		5.228E-02	9.220E-02	9.154E-03	0.577
PO-209	3.641E+00		2.865E+00	5.489E+00	9.825E-01	0.663
BI-211	-9.650E-02		3.959E-01	6.892E-01	5.021E-02	-0.140
PA-233	6.149E-03		2.563E-02	4.539E-02	3.812E-03	0.135
PA-234M	1.146E+00		1.721E+00	3.220E+00	1.851E-01	0.356
TH-234	1.103E+00	+	4.477E-01	5.389E-01	6.288E-02	2.046
U-235	2.286E-02		9.080E-02	1.536E-01	1.073E-02	0.149
NP-236	1.816E-02		3.225E-02	5.052E-02	5.550E-03	0.360
NP-239	3.829E-02		8.931E-02	1.502E-01	2.027E-02	0.255
AM-241	-4.270E-02		8.402E-02	1.439E-01	1.144E-02	-0.297
CM-243	-4.119E-03		4.634E-02	7.887E-02	8.988E-03	-0.052
AM-246	1.172E-02		4.331E-02	7.935E-02	9.766E-03	0.148
CF-249	-4.629E-03		1.618E-02	2.761E-02	2.663E-03	-0.168

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-NOV-2007 21:07:02

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793604_GAMMA2_400MLSAN_17196.CNF

---- Sample Information ----

Sample ID : OH207-7936-04
Sample Title : SB-CZ-SS-2205-SD 2208 TTM 11-20-2007
Sample Quantity : 4.22300E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17196

---- Sample Decay/Count Information ----

Collection Date : 26-SEP-2007 00:00:00 Acquisition date : 18-NOV-2007 18:06:27
Decay time : 53 18:06:27.67 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:01.15

---- Detector Parameters ----

Energy cal. time : 1-MAY-2007 11:12:10. Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA2 Counting geometry: 400 ml sand
Effic. cal. time : 1-MAY-2007 11:13:44. Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.68491E+00 a3=7.34327E-01 a4=7.12916E-02
a5=8.21331E-02 a6=-7.02143E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Wood Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.79	339	443	1.08	149.16	142	18	22.5	1.26E+00	AM-243 PB-214 PB-212
1	77.12	525	435	0.99	153.80	142	18	15.4		PB-214 PB-212
0	87.36*	175	614	0.99	174.18	169	8	51.9		NP-237 PB-214 PB-212
0	186.08*	225	499	1.22	370.77	367	10	40.8	0.00E+00	
0	209.39	67	390	1.07	417.20	413	8	105.5		AC-228
2	238.75*	1251	211	1.15	475.69	469	22	7.0	1.86E+00	PB-212
2	241.32	186	238	1.37	480.79	469	22	38.5		
2	242.35	147	237	1.38	482.86	469	22	44.0		PB-214
1	269.66	55	167	1.38	537.25	534	13	80.8	1.51E+00	RA-223
1	270.66	94	219	1.38	539.25	534	13	59.7		AC-228
0	295.36*	339	289	1.17	588.46	584	11	22.8		PB-214
0	300.13	146	266	1.52	597.95	594	13	48.6		PB-212
0	328.31	84	200	1.73	654.11	650	9	64.5		
0	338.46*	277	237	1.21	674.34	668	12	25.7		AC-228
0	352.16*	712	271	1.27	701.63	696	13	12.3		PB-214
0	463.26	118	149	1.51	923.04	916	14	47.9		AC-228
0	510.91*	79	203	1.15	1018.04	1012	13	86.9		TL-208
0	583.33*	394	96	1.39	1162.45	1156	12	14.4		TL-208
0	609.47*	477	112	1.47	1214.57	1209	10	12.7		BI-214
0	661.67	139	180	1.56	1318.68	1311	17	47.1		CS-137
0	727.46	123	67	1.54	1449.91	1445	13	32.7		BI-212
0	768.35	49	51	1.37	1531.48	1527	9	59.8		BI-214
0	794.94	83	46	1.77	1584.54	1579	13	40.3		AC-228
0	862.46	82	122	5.27	1719.28	1706	27	78.5		
0	911.16*	254	67	1.81	1816.49	1809	17	19.8		AC-228
0	933.41	42	36	3.81	1860.90	1855	11	63.0		BI-214
1	964.49	52	37	1.93	1922.96	1916	32	52.1	1.16E+00	AC-228
1	968.85*	168	23	1.93	1931.65	1916	32	20.7		AC-228
0	1120.10*	100	61	2.41	2233.68	2227	18	42.0		BI-214
0	1237.12*	46	42	2.74	2467.46	2461	14	67.9		BI-214
0	1376.66*	44	22	4.36	2746.33	2739	17	58.4		BI-214
0	1459.58*	257	18	2.24	2912.12	2904	15	15.3		K-40
0	1628.89	23	6	2.29	3250.73	3245	11	58.4		
0	1762.53*	82	12	1.60	3518.15	3511	13	29.7		BI-214
0	1845.61	23	12	1.52	3684.45	3676	17	83.3		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	186.08	225	499	1.22	370.77	367	10	2.08E-02	40.8	3.21E+00	
2	241.32	186	238	1.37	480.79	469	22	1.72E-02	38.5	2.78E+00	
0	328.31	84	200	1.73	654.11	650	9	7.78E-03	64.5	2.20E+00	
0	862.46	82	122	5.27	1719.28	1706	27	7.55E-03	78.5	9.90E-01	
0	1628.89	23	6	2.29	3250.73	3245	11	2.08E-03	58.4	6.22E-01	
0	1845.61	23	12	1.52	3684.45	3676	17	2.10E-03	83.3	5.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.120E+00	3.514E-01	1.805E-01	1.162E-02	11.749
CS-137	8.005E-02	3.879E-02	2.512E-02	2.858E-03	3.186
TL-208	2.050E-01	3.644E-02	2.407E-02	2.507E-03	8.517
BI-212	5.457E-01	1.880E-01	1.694E-01	1.852E-02	3.221
PB-212	6.111E-01	6.339E-02	3.860E-02	2.949E-03	15.833
BI-214	4.710E-01	7.791E-02	4.518E-02	4.811E-03	10.424
PB-214	5.411E-01	7.831E-02	4.619E-02	3.542E-03	11.715
RA-223	9.310E-02	7.571E-02	1.161E-01	1.033E-02	0.802
AC-228	6.139E-01	1.328E-01	8.043E-02	6.989E-03	7.633
NP-237	3.369E-01	1.800E-01	2.120E-01	2.664E-02	1.589
AM-243	1.511E-01	4.542E-02	4.315E-02	8.601E-03	3.502

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	2.547E-03		1.306E-02	2.300E-02	1.338E-03	0.111
RH-101	-5.708E-03		1.519E-02	2.430E-02	3.794E-03	-0.235
SB-125	-7.397E-03		3.918E-02	6.614E-02	5.422E-03	-0.112
EU-155	1.216E-02		5.262E-02	8.899E-02	8.332E-03	0.137
PO-209	-9.908E-01		2.793E+00	4.749E+00	9.105E-01	-0.209
BI-211	-1.866E-01		3.803E-01	6.426E-01	6.290E-02	-0.290
PA-233	2.300E-02		2.612E-02	4.687E-02	3.775E-03	0.491
PA-234M	-1.585E-01		1.625E+00	2.847E+00	2.223E-01	-0.056
TH-234	3.011E-01		2.899E-01	5.029E-01	5.030E-02	0.599
U-235	8.032E-04		9.276E-02	1.534E-01	1.119E-02	0.005
NP-236	3.379E-02		3.126E-02	5.420E-02	5.388E-03	0.623
NP-239	-1.307E-03		8.838E-02	1.541E-01	2.080E-02	-0.008
AM-241	1.804E-02		8.083E-02	1.396E-01	9.157E-03	0.129
CM-243	2.240E-02		4.742E-02	8.091E-02	8.747E-03	0.277
AM-246	-6.905E-04		4.755E-02	8.331E-02	1.066E-02	-0.008
CF-249	4.578E-03		1.599E-02	2.787E-02	2.671E-03	0.164

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-NOV-2007 21:07:48

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793605_GAMMA3_400MLSAN_17197.CNF

---- Sample Information ----

Sample ID	: OH207-7936-05
Sample Title	: SB-CZ-SS-2209-SD
Sample Quantity	: 4.47400E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17197

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 18-NOV-2007 18:07:28
Decay time	: 53 18:07:28.51	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.00

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 , a2=-4.85663E+00 a3=8.12782E-01 a4=8.53513E-02
a5=-4.88423E-02 a6=-7.49502E-03 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Mahar Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.47*	140	575	1.69	141.00	137	8	66.9		TH-234
2	74.90*	746	957	1.59	166.33	161	17	18.9	3.15E+00	AM-243
										PB-214
										PB-212
2	77.19*	1234	809	1.54	171.40	161	17	11.1		PB-214
										PB-212
3	87.20	445	803	1.54	193.60	181	33	24.9	2.56E+00	NP-237
										PB-214
										PB-212
3	89.86	236	591	1.22	199.48	181	33	39.0		
3	92.97*	545	788	1.79	206.40	181	33	24.8		TH-234
0	128.82	173	491	1.38	285.86	282	9	48.7		AC-228
0	185.91*	330	693	1.54	412.39	405	14	36.6		
0	209.25	132	401	1.14	464.14	460	9	57.6		AC-228
2	238.67*	1798	295	1.41	529.34	523	18	6.0	1.76E+00	PB-212
2	241.51	367	357	1.85	535.64	523	18	31.1		PB-214
0	270.32	206	307	2.07	599.49	594	12	36.8		RA-223
										AC-228
0	295.36*	460	313	1.28	655.00	649	13	18.6		PB-214
0	300.63	150	280	1.71	666.67	661	13	49.1		PB-212
0	338.42	438	294	1.41	750.43	744	15	19.5		AC-228
0	352.10*	765	244	1.50	780.75	775	15	11.7		PB-214
0	463.27	102	155	2.07	1027.17	1020	12	53.0		AC-228
0	510.84*	181	228	2.29	1132.59	1124	21	47.7		TL-208
0	583.19*	511	150	1.53	1292.94	1286	16	14.2		TL-208
0	609.19*	608	108	1.87	1350.56	1342	15	11.2		BI-214
0	661.94	94	117	1.88	1467.49	1460	13	51.7		CS-137
0	727.41*	115	79	1.61	1612.58	1607	12	37.2		BI-212
0	795.77	44	93	1.51	1764.10	1758	17	103.8		AC-228
0	860.55	66	61	0.69	1907.66	1902	13	55.1		TL-208
0	911.28*	357	80	1.47	2020.08	2011	15	15.4		AC-228
0	969.04	203	52	1.72	2148.09	2143	12	20.3		AC-228
0	1120.24*	145	33	2.30	2483.19	2471	23	27.1		BI-214
0	1238.42	51	69	1.68	2745.08	2737	18	80.4		BI-214
0	1460.75*	312	19	1.93	3237.76	3229	16	13.4		K-40
0	1764.44*	88	22	2.40	3910.70	3902	18	33.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.86	236	591	1.22	199.48	181	33	2.19E-02	39.0	3.55E+00	
0	185.91	330	693	1.54	412.39	405	14	3.05E-02	36.6	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.932E+00	4.304E-01	2.564E-01	1.508E-02	11.438
CS-137	5.902E-02	3.083E-02	3.382E-02	2.435E-03	1.745
TL-208	2.891E-01	4.697E-02	2.843E-02	2.262E-03	10.171
BI-212	5.628E-01	2.131E-01	2.582E-01	1.874E-02	2.180
PB-212	9.667E-01	9.257E-02	4.943E-02	3.695E-03	19.558
BI-214	6.541E-01	8.858E-02	5.789E-02	4.411E-03	11.300
PB-214	6.358E-01	8.985E-02	5.648E-02	4.493E-03	11.258
RA-223	3.813E-01	1.442E-01	1.454E-01	1.288E-02	2.621
AC-228	9.626E-01	1.634E-01	9.711E-02	6.828E-03	9.912
TH-234	1.587E+00	4.185E-01	3.493E-01	3.128E-02	4.543
NP-237	5.651E-01	1.543E-01	1.518E-01	1.692E-02	3.722
AM-243	1.750E-01	4.717E-02	3.137E-02	6.034E-03	5.578

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.556E-03		1.761E-02	3.089E-02	1.638E-03	-0.050
RH-101	-1.520E-02		1.855E-02	3.001E-02	4.632E-03	-0.507
SB-125	3.534E-02		4.795E-02	8.632E-02	7.136E-03	0.409
EU-155	5.320E-02		5.222E-02	9.197E-02	8.648E-03	0.578
PO-209	-2.000E+00		3.221E+00	5.442E+00	1.003E+00	-0.368
BI-211	-3.008E-01		5.014E-01	8.190E-01	5.898E-02	-0.367
PA-233	1.681E-02		3.261E-02	5.605E-02	4.574E-03	0.300
PA-234M	1.023E+00		1.981E+00	3.701E+00	2.527E-01	0.276
U-235	1.129E-01		1.119E-01	1.944E-01	1.443E-02	0.581
NP-236	3.325E-02		3.352E-02	4.946E-02	4.720E-03	0.672
NP-239	6.613E-03		1.163E-01	1.969E-01	2.634E-02	0.034
AM-241	4.159E-02		3.727E-02	5.636E-02	3.566E-03	0.738
CM-243	3.226E-03		4.700E-02	8.119E-02	8.748E-03	0.040
AM-246	4.874E-02		5.684E-02	1.088E-01	1.373E-02	0.448
CF-249	1.719E-02		1.993E-02	3.605E-02	3.591E-03	0.477

BENCH SHEET

Method:	Gamma Spec (DOE 4.5.2.3)	Project Name:	Cabrera Services-Oahu, HI
Analysis Type:	Gamma (DOE 21 day ing	Project Location:	
Matrix:	Soil	Project Number:	FOAH2/L
Date Received:	9/27/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S793~~1~~3 7938			

QL

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7937-PB		9/27/2007 8:45:00 AM	
SCAQC	7937-LD1 OH207-7937-01	SB-CZ-SS-2210-ST	9/26/2007	
SCAQC	7937-LC1		9/27/2007 8:45:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7937-01	SB-CZ-SS-2210-ST	9/26/2007	
OH207	7937-02	SB-CZ-SS-2211-ST	9/26/2007	
OH207	7937-03	SB-CZ-SS-2212-ST	9/26/2007	
OH207	7937-04	SB-CZ-SS-2213-ST	9/26/2007	
OH207	7937-05	SB-CZ-SS-2214-ST	9/26/2007	
OH207	7937-06	SB-CZ-SS-2215-ST	9/26/2007	
OH207	7937-07	SB-CZ-SS-2216-ST	9/26/2007	
OH207	7937-08	SB-CZ-SS-2217-ST	9/26/2007	
OH207	7937-09	SB-CZ-SS-2218-ST	9/26/2007	
OH207	7937-10	SB-CZ-SS-2219-ST	9/26/2007	
OH207	7937-11	SB-CZ-SS-2220-ST	9/26/2007	
OH207	7937-12	SB-CZ-SS-2221-ST	9/26/2007	
OH207	7937-13	SB-CZ-SS-2222-ST	9/26/2007	
OH207	7937-14	SB-CZ-SS-2223-ST	9/26/2007	

Radiochemistry Reviewer 11/24/07 Date

QA Reviewer 11/27/2007 Date

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-18-07 1923 G1 CW	180	OH207	7936	01	–	9/26/07	SB-CZ-SS-2205-SD	SOIL	466.6 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-18-07 1506 G3 CW	↓	↓	↓	02	–	↓	2206-SD	↓	350.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-18-07 1603 G1 CW				03	–		2207-SD		406.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-18-07 1806 G2 CW				04	–		2208-SD		422.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-18-07 1807 G3 CW				05	–		2209-SD		447.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 0925 G2 IC	180	SCAQC	7937	PB1	–	9/27/07 08:45	PREP BLK	LIQUID	400 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1509 G2 IC	60	↓	↓	LC1	–	↓	CTRL SAMP S-N2	SOIL	640 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 0950 G3 IC	180	↓	↓	LD1	–	9/26/07	DUP 7937-01	↓	445.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 1252 G1 IC	↓	OH207	↓	01	–	↓	SB-CZ-SS-2210-ST	↓	445.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 1253 G2 IC	↓	↓	↓	02	–	↓	2211-ST	↓	464.5 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

amgd1 = G1
amgd2 = G2

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Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-19-07 1254 G3 1K	180	04207	7937	03	–	9/26/07	SB-CZ-SS-2212-ST	SOIL	443.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 1556 G1 1K				04	–		2213-ST		474.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 1557 G2 1K				05	–		2214-ST		449.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 1558 G3 1K				06	–		2215-ST		435.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 1901 G1 1K				07	–		2216-ST		443.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 1902 G2 1K				08	–		2217-ST		470.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 1903 G3 1K				09	–		2218-ST		363.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-19-07 2218 G3 CW				10	–		2219-ST		550.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 0857 G1 1K				11	–		2220-ST		492.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 0858 G2 1K				12	–		2221-ST		506.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

Gamma1 = G1
Gamma2 = G2

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SCA-Form 012 Rev. 1

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-20-07 0900 / G3 IK	180	OH207	7937	13	—	9/26/07	SB-CZ-SS-2222-ST	SOIL	523.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1202 / G1 IK	↓	↓	↓	14	—	↓	2223-ST	↓	415.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1203 / G2 IK	180	SCAQC	7938	PB1	—	9/27/07 0845	PREP BLK	LIQUID	400 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1604 / G2 IK	60	↓		LC1	—	↓	CTRL SAMP S-142	SOIL	640 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1204 / G3 IC	180	↓		LD1	—	9/26/07	DUP of 7938-01		565.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1507 / G1 IK	↓	OH207		01	—	↓	SB-CZ-SS-2210-SD	↓	565.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1510 / G3 K	↓	↓	↓	02	—	↓	2211-SD	↓	468.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1814 / G1 JD	↓	↓	↓	03	—	↓	2212-SD	↓	544.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1818 / G2 JD	↓	↓	↓	04	—	↓	2213-SD	↓	540.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1823 / G3 JD	↓	↓	↓	05	—	↓	2214-SD	↓	529. K 526.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

Gamma1 = G1
Gamma2 = G2

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Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 12:25:59

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7937PB1_GAMMA2_400MLSA_17200.CNF

---- Sample Information ----

Sample ID	: SCAQC-7937-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17200		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 19-NOV-2007 09:25:41
Decay time	: 53 00:40:41.12	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.60

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.13*	51	152	1.16	125.96	122	9	99.8		
0	511.36*	61	65	2.43	1018.93	1011	17	84.6		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	63.13	51	152	1.16	125.96	122	9	4.70E-03	99.8	1.33E+00	T
0	511.36	61	65	2.43	1018.93	1011	17	5.65E-03	84.6	1.51E+00	T

Flags: "T" = Tentatively associated

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	3.262E-02		1.322E-01	2.943E-01	1.894E-02	0.111
CO-60	8.060E-03		9.051E-03	1.765E-02	1.026E-03	0.457
RH-101	1.199E-05		1.000E-02	1.657E-02	2.587E-03	0.001
SB-125	-1.025E-02		2.812E-02	4.751E-02	3.895E-03	-0.216
CS-137	6.178E-03		9.919E-03	1.931E-02	2.197E-03	0.320
EU-155	-1.255E-02		3.241E-02	5.415E-02	5.070E-03	-0.232
TL-208	-3.237E-03		1.061E-02	1.952E-02	2.033E-03	-0.166
PO-209	1.461E-01		1.976E+00	3.636E+00	6.971E-01	0.040
BI-211	-8.231E-02		2.290E-01	4.036E-01	3.951E-02	-0.204
BI-212	1.982E-02		6.872E-02	1.309E-01	1.431E-02	0.151
PB-212	1.061E-02		1.868E-02	3.373E-02	2.578E-03	0.315
BI-214	-6.645E-03		2.264E-02	4.158E-02	4.428E-03	-0.160
PB-214	-4.935E-03		2.210E-02	3.766E-02	2.888E-03	-0.131
RA-223	-2.241E-02		5.344E-02	9.171E-02	8.159E-03	-0.244
AC-228	-3.784E-03		4.006E-02	7.326E-02	6.366E-03	-0.052
PA-233	1.005E-02		1.887E-02	3.435E-02	2.767E-03	0.293
PA-234M	3.463E-01		1.122E+00	2.171E+00	1.694E-01	0.160
TH-234	4.030E-02		1.877E-01	3.319E-01	3.320E-02	0.121
U-235	2.363E-03		6.000E-02	1.012E-01	7.384E-03	0.023
NP-236	4.277E-03		1.892E-02	3.289E-02	3.270E-03	0.130
NP-237	3.764E-03		7.314E-02	1.233E-01	1.550E-02	0.031
NP-239	4.260E-02		6.475E-02	1.182E-01	1.595E-02	0.360
AM-241	-1.144E-02		5.127E-02	7.926E-02	5.199E-03	-0.144
AM-243	-1.445E-03		1.583E-02	2.728E-02	5.438E-03	-0.053
CM-243	1.253E-02		2.843E-02	5.009E-02	5.415E-03	0.250
AM-246	-2.025E-02		3.393E-02	5.579E-02	7.136E-03	-0.363
CF-249	-8.110E-03		1.167E-02	1.921E-02	1.841E-03	-0.422

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Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 16:09:42

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7937LC1_GAMMA2_400MLSA_17221.CNF

---- Sample Information ----

Sample ID	: SCAQC-7937-LC1		
Sample Title	: CTRL SAMP S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17221		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 20-NOV-2007 15:09:11
Decay time	: 54 06:24:11.57	% dead time	: 0.3%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:09.51

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moar Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
10	58.13	2246	8452	2.22	115.99	112	12	15.9	3.14E+00	
10	59.49	25952	4555	0.99	118.71	112	12	1.5		AM-241
0	87.98*	11118	5676	1.10	175.42	169	12	3.3		
0	122.12	1756	3421	1.14	243.41	239	9	12.9		
0	136.41	233	2172	1.30	271.86	269	6	64.7		
0	238.77*	281	2240	0.98	475.72	473	7	57.3		
0	583.82*	141	865	1.51	1163.41	1160	8	74.2		
0	661.80	26954	1132	1.49	1318.93	1313	12	1.3		CS-137
0	1172.87	20786	815	1.84	2339.10	2330	18	1.5		CO-60
0	1331.84	18869	205	1.95	2656.76	2646	20	1.5		CO-60
0	1458.98*	66	47	1.68	2910.91	2903	17	54.8		K-40

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
10	58.13	2246	8452	2.22	115.99	112	12	6.24E-01	15.9	1.05E+00	
0	87.98	11118	5676	1.10	175.42	169	12	3.09E+00	3.3	2.53E+00	T
0	122.12	1756	3421	1.14	243.41	239	9	4.88E-01	12.9	3.30E+00	
0	136.41	233	2172	1.30	271.86	269	6	6.47E-02	64.7	3.38E+00	
0	238.77	281	2240	0.98	475.72	473	7	7.80E-02	57.3	2.80E+00	T
0	583.82	141	865	1.51	1163.41	1160	8	3.92E-02	74.2	1.35E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	1.071E+00	5.904E-01	5.393E-01	3.471E-02	1.985
CO-60	3.142E+01	1.802E+00	9.504E-02	5.529E-03	330.646
CS-137	3.065E+01	3.510E+00	1.671E-01	1.901E-02	183.389
AM-241	7.517E+01	5.066E+00	9.714E-01	6.372E-02	77.382

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
RH-101	-1.791E-02		7.772E-02	1.238E-01	1.933E-02	-0.145
SB-125	3.704E-02		2.715E-01	4.489E-01	3.680E-02	0.083
EU-155	-9.807E-02		2.506E-01	4.106E-01	3.845E-02	-0.239
TL-208	1.452E-01	+	1.088E-01	1.637E-01	1.705E-02	0.887
PO-209	-1.811E+00		2.533E+01	4.202E+01	8.056E+00	-0.043
BI-211	1.526E+00		3.117E+00	5.266E+00	5.155E-01	0.290
BI-212	-1.198E-01		7.211E-01	1.215E+00	1.329E-01	-0.099
PB-212	2.716E-01	+	1.570E-01	2.342E-01	1.789E-02	1.160
BI-214	1.428E-01		1.764E-01	3.058E-01	3.257E-02	0.467
PB-214	2.232E-01		1.771E-01	3.006E-01	2.305E-02	0.742
RA-223	-2.231E-01		4.077E-01	6.840E-01	6.085E-02	-0.326
AC-228	4.676E-01		4.807E-01	8.107E-01	7.044E-02	0.577
PA-233	1.919E-02		1.560E-01	2.627E-01	2.116E-02	0.073
PA-234M	3.574E+00		1.441E+01	2.392E+01	1.867E+00	0.149
TH-234	9.184E-01		1.209E+00	1.821E+00	1.822E-01	0.504
U-235	-1.925E-01		4.410E-01	7.117E-01	5.195E-02	-0.270
NP-236	-5.399E-02		1.437E-01	2.362E-01	2.348E-02	-0.229
NP-237	2.200E+01		2.882E+00	1.655E+00	2.080E-01	13.291
NP-239	-3.486E-02		5.119E-01	8.726E-01	1.178E-01	-0.040
AM-243	-6.947E-02		1.399E-01	2.309E-01	4.603E-02	-0.301
CM-243	6.381E-02		2.292E-01	3.798E-01	4.106E-02	0.168
AM-246	-1.508E-01		4.360E-01	7.090E-01	9.069E-02	-0.213
CF-249	9.097E-03		1.055E-01	1.754E-01	1.681E-02	0.052

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 12:50:43

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7937LD1_GAMMA3_400MLSA_17201.CNF

---- Sample Information ----

Sample ID	: SCAQC-7937-LD1		
Sample Title	: DUP 7937-01		
Sample Quantity	: 4.45300E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17201		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 19-NOV-2007 09:50:26
Decay time	: 54 09:50:26.42	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.98

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T Zn Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.99*	158	765	1.72	104.46	98	17	83.7		
0	63.55*	201	947	1.23	141.18	134	14	68.6		TH-234
1	74.88*	608	819	1.44	166.29	157	20	20.6	1.94E+00	AM-243
										PB-214
										PB-212
1	77.12*	1027	761	1.31	171.26	157	20	12.1		PB-214
										PB-212
3	87.17	459	795	1.64	193.52	181	34	25.6	2.14E+00	NP-237
										PB-214
										PB-212
3	89.85	294	749	1.63	199.46	181	34	40.0		
3	92.95*	498	754	1.79	206.35	181	34	26.5		TH-234
0	129.16	153	789	1.16	286.61	281	13	77.9		AC-228
0	186.12*	340	591	1.67	412.87	407	13	32.6		
0	209.62	279	433	1.59	464.95	460	12	32.3		AC-228
4	238.69*	1848	340	1.41	529.38	523	19	6.0	8.56E-01	PB-212
4	241.65	363	396	1.84	535.95	523	19	29.9		PB-214
0	270.24	100	330	0.94	599.31	594	10	70.9		RA-223
										AC-228
0	295.21*	447	198	1.54	654.65	650	10	15.3		PB-214
0	300.15	120	217	1.63	665.62	661	9	48.0		PB-212
0	328.10	120	259	1.08	727.56	721	12	56.8		
0	338.38	348	231	1.39	750.34	744	12	20.5		AC-228
0	352.16*	841	275	1.48	780.89	774	16	11.4		PB-214
0	462.84	112	143	2.10	1026.21	1021	11	45.5		AC-228
0	510.62*	186	204	1.65	1132.10	1124	18	42.5		TL-208
0	583.21*	528	175	1.69	1292.98	1286	17	14.6		TL-208
0	609.13*	542	199	1.85	1350.45	1343	19	15.2		BI-214
0	661.52	249	99	1.49	1466.56	1460	12	20.4		CS-137
0	727.23*	126	70	1.60	1612.18	1605	13	32.5		BI-212
0	860.92	85	75	2.57	1908.48	1902	16	50.9		TL-208
0	911.21*	394	51	2.10	2019.94	2012	14	13.0		AC-228
0	969.59	172	122	1.66	2149.32	2142	18	36.2		AC-228
0	1120.30*	140	32	1.90	2483.32	2476	16	25.2		BI-214
0	1378.82	27	36	1.30	3056.20	3045	15	107.4		BI-214
0	1460.83*	435	43	1.85	3237.93	3229	20	12.4		K-40
0	1510.52	31	15	3.45	3348.06	3342	13	63.2		BI-214
0	1630.96	22	18	2.88	3614.93	3606	21	98.7		
0	1764.71*	92	4	1.32	3911.31	3904	14	23.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.99	158	765	1.72	104.46	98	17	1.46E-02	83.7	2.79E+00	
3	89.85	294	749	1.63	199.46	181	34	2.72E-02	40.0	3.55E+00	
0	186.12	340	591	1.67	412.87	407	13	3.15E-02	32.6	2.81E+00	
0	328.10	120	259	1.08	727.56	721	12	1.11E-02	56.8	1.89E+00	
0	1630.96	22	18	2.88	3614.93	3606	21	2.08E-03	98.7	5.17E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.106E+00	5.653E-01	2.935E-01	1.727E-02	13.989
CS-137	1.573E-01	3.398E-02	3.444E-02	2.480E-03	4.567
TL-208	3.002E-01	4.989E-02	3.090E-02	2.460E-03	9.713
BI-212	6.203E-01	2.063E-01	2.421E-01	1.758E-02	2.562
PB-212	9.984E-01	9.572E-02	5.078E-02	3.796E-03	19.663
BI-214	5.867E-01	9.974E-02	6.385E-02	4.865E-03	9.188
PB-214	7.021E-01	9.759E-02	5.952E-02	4.735E-03	11.796
RA-223	1.862E-01	1.330E-01	1.566E-01	1.386E-02	1.189
AC-228	1.068E+00	1.578E-01	1.098E-01	7.722E-03	9.720
TH-234	1.456E+00	4.077E-01	3.516E-01	3.147E-02	4.143
NP-237	5.856E-01	1.635E-01	1.528E-01	1.703E-02	3.833
AM-243	1.435E-01	4.045E-02	3.040E-02	5.846E-03	4.720

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-4.336E-03		2.020E-02	2.675E-02	1.418E-03	-0.162
RH-101	-1.187E-02		1.868E-02	3.050E-02	4.707E-03	-0.389
SB-125	1.543E-02		4.903E-02	8.663E-02	7.162E-03	0.178
EU-155	3.169E-02		5.294E-02	9.249E-02	8.697E-03	0.343
PO-209	-2.687E+00		3.452E+00	5.725E+00	1.055E+00	-0.469
BI-211	-1.146E-01		5.658E-01	9.517E-01	6.854E-02	-0.120
PA-233	-8.566E-03		3.348E-02	5.556E-02	4.534E-03	-0.154
PA-234M	1.707E+00		2.068E+00	3.927E+00	2.681E-01	0.435
U-235	1.188E-01		1.134E-01	1.972E-01	1.464E-02	0.602
NP-236	3.447E-02		3.381E-02	4.994E-02	4.765E-03	0.690
NP-239	9.961E-03		1.165E-01	1.974E-01	2.641E-02	0.050
AM-241	2.219E-02		3.675E-02	5.458E-02	3.454E-03	0.407
CM-243	-2.183E-02		4.728E-02	8.045E-02	8.669E-03	-0.271
AM-246	-1.928E-03		5.843E-02	1.040E-01	1.312E-02	-0.019
CF-249	6.911E-03		2.147E-02	3.792E-02	3.777E-03	0.182

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 15:53:06

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793701_GAMMA1_400MLSAN_17202.CNF

---- Sample Information ----

Sample ID : OH207-7937-01
Sample Title : SB-CZ-SS-2210-ST
Sample Quantity : 4.45300E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17202

---- Sample Decay/Count Information ----

Collection Date : 26-SEP-2007 00:00:00 Acquisition date : 19-NOV-2007 12:52:45
Decay time : 54 12:52:45.38 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:02.49

---- Detector Parameters ----

Energy cal. time : 23-MAR-2006 15:15:18 Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA1 Counting geometry: 400 ml sand
Effic. cal. time : 23-MAR-2006 15:18:11 Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.65904E+00 a3=6.59172E-01 a4=3.93115E-02
a5=1.38137E-01 a6=-8.70295E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.89*	335	446	0.89	149.19	145	14	22.0	1.59E+00	AM-243
										PB-214
										PB-212
2	77.16*	598	436	0.91	153.74	145	14	13.4		PB-214
										PB-212
0	84.04*	123	492	1.82	167.51	165	7	63.0		
0	87.28	210	497	1.12	173.99	172	6	36.2		NP-237
										PB-214
										PB-212
5	89.99	160	334	0.99	179.43	177	13	34.9	5.33E-01	
5	93.06*	262	590	1.38	185.57	177	13	36.3		
0	186.01*	257	642	1.24	371.70	366	11	41.1		
0	209.20	141	471	1.15	418.13	415	9	58.1		AC-228
3	238.63*	1868	260	1.04	477.07	470	19	5.4	1.88E+00	PB-212
3	241.27	361	321	1.55	482.35	470	19	26.2		
3	242.21	168	312	1.55	484.23	470	19	48.4		PB-214
0	270.79	169	469	1.26	541.46	534	14	56.5		AC-228
1	277.17	56	170	1.08	554.24	552	8	75.6	1.92E+00	TL-208
1	278.17	56	254	1.33	556.24	552	8	106.6		
4	295.14*	534	176	1.21	590.21	583	24	12.0	1.92E+00	PB-214
4	300.15	148	291	1.80	600.24	583	24	47.5		PB-212
3	326.63	40	228	1.36	653.28	649	12	141.1	3.43E+00	
3	328.00	133	228	1.36	656.00	649	12	43.1		
0	338.27*	409	228	1.34	676.58	672	9	16.8		AC-228
0	351.84*	880	231	1.16	703.75	698	11	9.6		PB-214
0	409.66	75	174	1.01	819.52	815	9	67.3		AC-228
0	462.90	99	154	1.56	926.11	921	9	49.6		AC-228
0	510.78*	248	257	1.78	1021.97	1015	17	34.5		TL-208
0	582.97*	619	183	1.28	1166.51	1160	14	12.4		TL-208
0	609.05*	605	167	1.53	1218.73	1212	16	12.6		BI-214
0	661.40	363	94	1.49	1323.54	1317	13	15.2		CS-137
0	727.36*	146	91	1.16	1455.58	1450	12	31.6		BI-212
0	767.52	85	81	1.59	1536.00	1530	12	47.4		BI-214
0	795.41	35	105	1.36	1591.83	1585	11	119.7		AC-228
0	861.24	86	90	2.15	1723.61	1717	18	59.1		TL-208
0	910.98*	487	50	1.87	1823.19	1814	16	11.2		AC-228
2	964.50	99	44	2.06	1930.33	1922	27	37.0	1.85E+00	AC-228
2	968.63*	256	51	1.72	1938.60	1922	27	16.4		AC-228
0	1120.07*	165	72	1.91	2241.75	2233	16	28.1		BI-214
0	1377.59	34	32	1.50	2757.23	2749	13	76.7		BI-214
0	1460.47*	655	32	2.08	2923.12	2916	14	8.7		K-40
0	1542.75	15	10	1.44	3087.80	3083	10	94.3		
0	1589.03	39	57	1.12	3180.42	3173	16	91.9		AC-228
0	1729.07	29	5	1.62	3460.69	3455	10	47.0		BI-214
0	1763.95*	116	11	2.43	3530.51	3524	14	22.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	84.04	123	492	1.82	167.51	165	7	1.14E-02	63.0	2.10E+00	
5	89.99	160	334	0.99	179.43	177	13	1.48E-02	34.9	2.33E+00	
5	93.06	262	590	1.38	185.57	177	13	2.42E-02	36.3	2.43E+00	T
0	186.01	257	642	1.24	371.70	366	11	2.38E-02	41.1	3.03E+00	
3	241.27	361	321	1.55	482.35	470	19	3.34E-02	26.2	2.64E+00	
1	278.17	56	254	1.33	556.24	552	8	5.15E-03	****	2.39E+00	
3	326.63	40	228	1.36	653.28	649	12	3.71E-03	****	2.11E+00	
3	328.00	133	228	1.36	656.00	649	12	1.24E-02	43.1	2.11E+00	
0	1542.75	15	10	1.44	3087.80	3083	10	1.39E-03	94.3	6.79E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.877E+00	5.402E-01	2.441E-01	1.666E-02	19.981
CS-137	1.982E-01	3.694E-02	2.609E-02	2.803E-03	7.597
TL-208	3.093E-01	4.924E-02	2.605E-02	2.614E-03	11.872
BI-212	6.151E-01	2.034E-01	1.927E-01	1.854E-02	3.191
PB-212	9.121E-01	8.601E-02	4.037E-02	3.116E-03	22.594
BI-214	5.720E-01	9.277E-02	4.941E-02	5.033E-03	11.576
PB-214	6.611E-01	8.218E-02	4.892E-02	3.861E-03	13.514
AC-228	1.091E+00	1.364E-01	7.834E-02	4.329E-03	13.933
NP-237	4.333E-01	1.688E-01	2.038E-01	2.946E-02	2.127
AM-243	1.653E-01	5.025E-02	5.081E-02	1.066E-02	3.253

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-2.388E-03		1.461E-02	2.499E-02	1.525E-03	-0.096
RH-101	-1.260E-02		1.593E-02	2.538E-02	3.936E-03	-0.497
SB-125	9.842E-03		3.916E-02	6.829E-02	5.600E-03	0.144
EU-155	6.483E-02		5.693E-02	9.953E-02	9.882E-03	0.651
PO-209	1.508E-01		2.808E+00	4.969E+00	8.893E-01	0.030
BI-211	-3.530E-01		4.223E-01	6.957E-01	5.069E-02	-0.507
RA-223	2.010E-01		8.607E-02	1.581E-01	1.455E-02	1.272
PA-233	3.356E-02		2.714E-02	4.946E-02	4.154E-03	0.679
PA-234M	1.942E+00		1.773E+00	3.361E+00	1.932E-01	0.578
TH-234	1.124E+00	+	4.284E-01	5.702E-01	6.653E-02	1.971
U-235	1.398E-02		9.729E-02	1.631E-01	1.139E-02	0.086
NP-236	6.042E-02		3.458E-02	6.043E-02	6.638E-03	1.000
NP-239	8.634E-02		1.051E-01	1.764E-01	2.380E-02	0.489
AM-241	1.507E-02		9.245E-02	1.616E-01	1.285E-02	0.093
CM-243	1.455E-02		5.077E-02	8.702E-02	9.918E-03	0.167
AM-246	-2.391E-03		4.728E-02	8.249E-02	1.015E-02	-0.029
CF-249	6.738E-03		1.688E-02	2.970E-02	2.865E-03	0.227

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 15:54:06

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793702_GAMMA2_400MLSAN_17203.CNF

---- Sample Information ----

Sample ID	: OH207-7937-02		
Sample Title	: SB-CZ-SS-2211-ST		
Sample Quantity	: 4.64500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17203		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 19-NOV-2007 12:53:46
Decay time	: 54 12:53:46.43	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.44

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.76	571	749	1.19	149.10	143	15	18.2	1.90E+00	AM-243
										PB-214
										PB-212
2	77.06	830	633	1.01	153.68	143	15	11.9		PB-214
										PB-212
5	87.23*	319	687	1.25	173.93	164	27	29.3	1.22E+00	NP-237
										PB-214
										PB-212
5	89.91	230	768	1.27	179.27	164	27	44.3		
0	129.20	139	813	1.33	257.50	253	10	78.4		AC-228
0	186.07*	428	863	1.27	370.75	364	13	30.5		
1	208.90	156	532	1.30	416.24	412	10	54.3	1.09E+01	AC-228
1	209.67	148	543	1.30	417.76	412	10	57.2		
3	238.78*	2088	372	1.12	475.75	470	19	5.4	8.05E-01	PB-212
3	241.15	202	327	1.24	480.46	470	19	42.4		
3	241.96	279	324	1.24	482.08	470	19	27.6		PB-214
0	270.75	274	405	1.23	539.44	534	12	31.7		RA-223
										AC-228
0	277.83	144	353	1.54	553.53	548	11	53.6		TL-208
2	295.42*	637	224	1.36	588.57	583	22	11.5	1.17E+00	PB-214
2	300.42	170	236	1.55	598.54	583	22	36.7		PB-212
0	328.24	147	220	1.14	653.97	650	9	40.0		
0	338.70*	507	379	1.19	674.82	669	13	18.4		AC-228
0	352.10*	989	261	1.29	701.51	695	11	9.1		PB-214
0	409.44	52	214	1.23	815.78	810	10	108.9		AC-228
0	463.47	206	121	1.67	923.47	919	12	25.7		AC-228
0	511.09*	215	228	1.82	1018.39	1011	15	36.8		TL-208
0	583.46*	683	143	1.41	1162.69	1157	11	10.3		TL-208
0	609.53*	695	150	1.44	1214.68	1208	14	10.8		BI-214
0	661.96	97	95	2.09	1319.25	1314	11	44.3		CS-137
0	727.15	181	81	1.46	1449.29	1443	12	24.8		BI-212
0	768.18	65	71	1.59	1531.14	1527	8	51.8		BI-214
0	795.58	100	93	1.67	1585.81	1579	16	48.7		AC-228
0	861.04	105	69	1.62	1716.44	1708	15	40.2		TL-208
0	911.05*	522	90	1.83	1816.27	1809	15	12.0		AC-228
1	964.69	80	74	1.93	1923.35	1918	22	47.4	9.40E-01	AC-228
1	968.95*	261	57	1.77	1931.84	1918	22	17.1		AC-228
0	1120.19*	144	52	2.02	2233.88	2227	13	27.1		BI-214
0	1238.50*	42	71	1.71	2470.23	2463	16	95.6		BI-214
0	1459.85*	444	42	1.98	2912.66	2905	19	12.0		K-40
0	1508.36	51	8	4.35	3009.66	3001	19	40.1		BI-214
0	1590.05	67	69	5.49	3173.05	3160	27	78.6		AC-228
0	1762.66*	132	18	1.99	3518.42	3510	18	23.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	89.91	230	768	1.27	179.27	164	27	2.13E-02	44.3	2.61E+00	
0	186.07	428	863	1.27	370.75	364	13	3.96E-02	30.5	3.21E+00	
1	209.67	148	543	1.30	417.76	412	10	1.37E-02	57.2	3.03E+00	
3	241.15	202	327	1.24	480.46	470	19	1.87E-02	42.4	2.78E+00	
0	328.24	147	220	1.14	653.97	650	9	1.36E-02	40.0	2.20E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.327E+00	4.521E-01	2.105E-01	1.355E-02	15.806
CS-137	5.082E-02	2.323E-02	2.914E-02	3.315E-03	1.744
TL-208	3.231E-01	4.741E-02	2.486E-02	2.588E-03	12.999
BI-212	7.326E-01	1.987E-01	1.938E-01	2.119E-02	3.781
PB-212	9.276E-01	8.677E-02	4.035E-02	3.083E-03	22.989
BI-214	6.243E-01	9.487E-02	4.716E-02	5.021E-03	13.238
PB-214	6.828E-01	8.100E-02	4.871E-02	3.735E-03	14.017
RA-223	4.195E-01	1.383E-01	1.268E-01	1.128E-02	3.308
AC-228	1.146E+00	1.694E-01	9.079E-02	7.889E-03	12.626
NP-237	5.602E-01	1.788E-01	1.963E-01	2.466E-02	2.854
AM-243	2.315E-01	6.246E-02	4.896E-02	9.759E-03	4.728

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-8.187E-03		1.332E-02	1.995E-02	1.161E-03	-0.410
RH-101	-8.746E-03		1.598E-02	2.531E-02	3.951E-03	-0.346
SB-125	2.026E-02		3.955E-02	6.899E-02	5.656E-03	0.294
EU-155	1.258E-01		5.764E-02	1.005E-01	9.406E-03	1.252
PO-209	3.540E-01		2.843E+00	5.016E+00	9.618E-01	0.071
BI-211	-4.060E-01		4.219E-01	6.803E-01	6.660E-02	-0.597
PA-233	-3.595E-03		2.712E-02	4.635E-02	3.733E-03	-0.078
PA-234M	1.137E+00		1.657E+00	3.062E+00	2.391E-01	0.371
TH-234	1.456E+00		3.361E-01	5.662E-01	5.663E-02	2.572
U-235	2.556E-02		9.890E-02	1.641E-01	1.198E-02	0.156
NP-236	2.295E-02		3.427E-02	5.585E-02	5.551E-03	0.411
NP-239	-4.551E-02		9.678E-02	1.651E-01	2.228E-02	-0.276
AM-241	-9.453E-03		8.735E-02	1.486E-01	9.749E-03	-0.064
CM-243	-1.168E-02		5.201E-02	8.630E-02	9.330E-03	-0.135
AM-246	4.068E-02		4.872E-02	9.073E-02	1.160E-02	0.448
CF-249	-7.758E-06		1.702E-02	2.900E-02	2.779E-03	0.000

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 15:55:04

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793703_GAMMA3_400MLSAN_17204.CNF

---- Sample Information ----

Sample ID	: OH207-7937-03
Sample Title	: SB-CZ-SS-2212-ST
Sample Quantity	: 4.43700E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17204

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 19-NOV-2007 12:54:48
Decay time	: 54 12:54:48.52	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.06

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.86*	752	915	1.29	166.24	160	18	17.0	8.94E-01	AM-243
										PB-214
										PB-212
2	77.11*	1148	894	1.32	171.24	160	18	11.7		PB-214
										PB-212
2	87.33	442	889	1.62	193.89	183	31	28.3	3.00E+00	NP-237
										PB-214
										PB-212
2	89.86	232	630	1.21	199.49	183	31	41.4		
2	92.74*	525	825	1.59	205.88	183	31	24.9		
0	129.16	106	647	1.32	286.60	282	9	88.7		AC-228
0	186.00*	388	685	1.51	412.59	407	13	30.4		
0	209.57	285	591	1.18	464.84	459	14	38.3		AC-228
3	238.69*	1909	428	1.50	529.38	520	22	6.2	2.60E+00	PB-212
3	241.78	383	455	1.64	536.22	520	22	26.1		PB-214
0	270.18	178	358	1.18	599.17	594	11	43.9		RA-223
										AC-228
0	295.25*	671	341	1.46	654.76	649	13	13.8		PB-214
0	300.76	185	269	1.30	666.97	662	11	37.7		PB-212
0	328.34	100	229	1.66	728.10	724	10	60.4		
0	338.58	362	320	1.49	750.79	745	12	22.4		AC-228
0	352.00*	1121	216	1.58	780.54	775	12	8.0		PB-214
0	463.13	130	168	1.23	1026.85	1020	12	43.6		AC-228
0	511.04*	301	234	1.83	1133.04	1124	20	29.7		TL-208
0	583.18*	593	133	1.69	1292.92	1284	19	12.6		TL-208
0	609.28*	768	161	1.68	1350.78	1343	18	10.6		BI-214
0	661.51	438	169	1.50	1466.54	1459	15	16.1		CS-137
0	727.22*	163	88	1.56	1612.17	1605	15	30.0		BI-212
0	768.41	74	96	1.44	1703.45	1698	11	56.0		BI-214
0	835.15	41	72	1.20	1851.36	1845	13	90.5		
0	860.77	102	81	2.14	1908.14	1899	18	45.9		TL-208
0	911.10*	464	66	1.95	2019.68	2009	20	12.8		AC-228
1	964.61	71	90	2.21	2138.28	2131	29	61.3	2.37E+00	AC-228
1	969.25	246	68	2.22	2148.55	2131	29	20.3		AC-228
0	1120.11*	181	55	1.98	2482.89	2475	14	23.3		BI-214
0	1460.84*	589	9	2.25	3237.97	3229	18	8.8		K-40
0	1764.67*	136	4	2.14	3911.22	3903	19	19.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.86	232	630	1.21	199.49	183	31	2.15E-02	41.4	3.55E+00	
2	92.74	525	825	1.59	205.88	183	31	4.86E-02	24.9	3.55E+00	T
0	186.00	388	685	1.51	412.59	407	13	3.59E-02	30.4	2.81E+00	
0	328.34	100	229	1.66	728.10	724	10	9.25E-03	60.4	1.89E+00	
0	835.15	41	72	1.20	1851.36	1845	13	3.80E-03	90.5	8.63E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.584E+00	5.898E-01	2.529E-01	1.488E-02	22.078
CS-137	2.774E-01	4.885E-02	3.707E-02	2.669E-03	7.483
TL-208	3.382E-01	5.045E-02	3.184E-02	2.534E-03	10.625
BI-212	8.041E-01	2.485E-01	2.442E-01	1.773E-02	3.293
PB-212	1.035E+00	1.008E-01	5.479E-02	4.095E-03	18.893
BI-214	8.338E-01	1.091E-01	6.108E-02	4.654E-03	13.651
PB-214	9.391E-01	1.062E-01	6.307E-02	5.018E-03	14.890
RA-223	3.321E-01	1.486E-01	1.668E-01	1.477E-02	1.990
AC-228	1.264E+00	1.844E-01	1.194E-01	8.393E-03	10.587
NP-237	5.666E-01	1.726E-01	1.655E-01	1.845E-02	3.423
AM-243	1.779E-01	4.570E-02	3.256E-02	6.262E-03	5.463

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	8.797E-03		1.988E-02	2.780E-02	1.474E-03	0.316
RH-101	-1.627E-02		2.017E-02	3.270E-02	5.047E-03	-0.498
SB-125	-3.460E-02		5.079E-02	8.543E-02	7.062E-03	-0.405
EU-155	9.076E-03		5.521E-02	9.543E-02	8.974E-03	0.095
PO-209	-1.859E-01		3.617E+00	6.413E+00	1.182E+00	-0.029
BI-211	2.297E-02		5.882E-01	8.678E-01	6.250E-02	0.026
PA-233	7.952E-03		3.549E-02	6.005E-02	4.901E-03	0.132
PA-234M	1.879E+00		2.234E+00	4.207E+00	2.873E-01	0.447
TH-234	1.541E+00	+	4.082E-01	5.355E-01	3.563E-02	2.877
U-235	-1.524E-02		1.203E-01	2.035E-01	1.510E-02	-0.075
NP-236	4.239E-02		3.691E-02	5.443E-02	5.194E-03	0.779
NP-239	4.249E-02		1.292E-01	2.198E-01	2.941E-02	0.193
AM-241	-1.185E-01		3.968E-02	5.902E-02	3.735E-03	-2.008
CM-243	2.404E-02		4.984E-02	8.675E-02	9.348E-03	0.277
AM-246	7.772E-03		6.332E-02	1.135E-01	1.433E-02	0.068
CF-249	3.073E-02		2.176E-02	3.976E-02	3.960E-03	0.773

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 18:57:23

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793704_GAMMA1_400MLSAN_17205.CNF

---- Sample Information ----

Sample ID	: OH207-7937-04		
Sample Title	: SB-CZ-SS-2213-ST		
Sample Quantity	: 4.74400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17205		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 19-NOV-2007 15:56:52
Decay time	: 54 15:56:52.21	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.94

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Mead Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.94*	392	663	0.92	149.29	145	13	23.2	1.59E+00	AM-243 PB-214 PB-212
3	77.20*	784	678	1.11	153.82	145	13	13.8		PB-214 PB-212
0	87.27	294	720	1.25	173.99	171	7	32.4		NP-237 PB-214 PB-212
0	90.08	163	612	1.00	179.61	177	6	50.6		
0	93.12*	287	869	1.50	185.71	182	9	40.0		
0	129.88*	104	812	0.93	259.31	254	9	101.5		AC-228
0	185.91*	413	724	1.35	371.50	367	10	26.8		
0	209.36	168	636	1.12	418.45	415	9	56.2		AC-228
2	238.65*	2365	358	1.05	477.09	472	17	4.9	1.06E+00	PB-212
2	241.04	220	362	1.24	481.88	472	17	43.9		
2	242.04	376	353	1.15	483.89	472	17	21.6		PB-214
0	270.24	258	493	1.43	540.36	535	12	36.7		RA-223 AC-228
0	277.27	102	333	1.11	554.43	551	8	65.3		TL-208
0	295.29*	823	381	1.21	590.51	586	11	11.7		PB-214
0	300.21	198	270	1.30	600.36	597	9	32.9		PB-212
0	327.95	189	317	0.99	655.92	651	11	39.1		
0	338.25*	537	378	1.24	676.54	671	13	17.4		AC-228
0	351.85*	1361	397	1.17	703.76	697	13	8.2		PB-214
0	409.40	72	151	1.17	819.00	816	7	61.7		AC-228
0	462.15	124	290	1.42	924.61	919	14	60.9		AC-228
0	510.76*	305	263	1.75	1021.94	1014	17	28.8		TL-208
0	583.08*	723	195	1.37	1166.74	1161	11	10.6		TL-208
0	609.23*	1144	171	1.41	1219.09	1213	14	7.7		BI-214
0	661.32	313	127	1.53	1323.37	1317	11	18.0		CS-137
0	727.34*	161	154	1.52	1455.54	1449	13	35.8		BI-212
0	767.92	110	90	1.38	1536.78	1531	10	37.5		BI-214
0	785.84	61	114	1.38	1572.67	1565	15	79.5		BI-212
0	794.94	72	70	1.09	1590.87	1587	9	49.1		AC-228
0	860.36	76	70	1.26	1721.85	1717	9	45.6		TL-208
0	910.94*	596	80	1.78	1823.11	1816	14	10.5		AC-228
1	964.67	76	84	1.87	1930.66	1924	23	50.3	1.01E+00	AC-228
1	968.85*	293	56	1.73	1939.04	1924	23	15.5		AC-228
0	1120.05*	231	132	1.62	2241.71	2233	18	26.9		BI-214
0	1237.56	122	67	2.50	2476.94	2469	14	33.5		BI-214
0	1377.34	80	18	1.18	2756.72	2750	13	31.8		BI-214
0	1460.34*	838	30	2.25	2922.86	2914	17	7.6		K-40
0	1508.86	41	20	1.13	3019.95	3013	11	51.8		BI-214
0	1572.65	12	8	0.88	3147.64	3142	9	106.6		
0	1587.90	29	25	1.97	3178.16	3174	8	71.1		AC-228
0	1728.70	45	33	1.80	3459.95	3451	19	67.8		BI-214
0	1764.03*	188	20	1.81	3530.66	3523	18	18.4		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	90.08	163	612	1.00	179.61	177	6	1.51E-02	50.6	2.33E+00	
0	93.12	287	869	1.50	185.71	182	9	2.66E-02	40.0	2.44E+00	T
0	185.91	413	724	1.35	371.50	367	10	3.82E-02	26.8	3.03E+00	
2	241.04	220	362	1.24	481.88	472	17	2.03E-02	43.9	2.64E+00	
0	327.95	189	317	0.99	655.92	651	11	1.75E-02	39.1	2.11E+00	
0	1572.65	12	8	0.88	3147.64	3142	9	1.10E-03	****	6.69E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.862E+00	5.986E-01	2.116E-01	1.444E-02	27.708
CS-137	1.608E-01	3.369E-02	3.121E-02	3.354E-03	5.151
TL-208	3.389E-01	4.958E-02	2.701E-02	2.711E-03	12.547
BI-212	6.360E-01	2.358E-01	2.018E-01	1.941E-02	3.151
PB-212	1.084E+00	9.884E-02	4.463E-02	3.445E-03	24.289
BI-214	1.016E+00	1.299E-01	4.869E-02	4.960E-03	20.861
PB-214	9.593E-01	1.089E-01	4.909E-02	3.873E-03	19.542
RA-223	4.054E-01	1.532E-01	1.331E-01	1.225E-02	3.045
AC-228	1.253E+00	1.484E-01	8.879E-02	4.907E-03	14.110
NP-237	5.698E-01	2.022E-01	2.421E-01	3.500E-02	2.354
AM-243	1.815E-01	5.675E-02	5.432E-02	1.140E-02	3.341

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.652E-03		1.637E-02	2.224E-02	1.452E-03	0.074
RH-101	-2.105E-03		1.678E-02	2.751E-02	4.267E-03	-0.076
SB-125	-8.335E-04		4.277E-02	7.302E-02	5.988E-03	-0.011
EU-155	4.919E-02		6.076E-02	1.048E-01	1.040E-02	0.469
PO-209	-1.919E+00		2.828E+00	4.662E+00	8.344E-01	-0.412
BI-211	-3.378E-01		4.645E-01	7.718E-01	5.623E-02	-0.438
PA-233	1.955E-02		2.773E-02	4.935E-02	4.144E-03	0.396
PA-234M	1.465E+00		1.808E+00	3.328E+00	1.913E-01	0.440
TH-234	1.157E+00	+	4.824E-01	5.820E-01	6.790E-02	1.988
U-235	2.002E-02		1.100E-01	1.837E-01	1.282E-02	0.109
NP-236	3.592E-02		3.696E-02	6.104E-02	6.705E-03	0.589
NP-239	-2.319E-02		1.089E-01	1.759E-01	2.373E-02	-0.132
AM-241	-1.414E-02		9.487E-02	1.638E-01	1.302E-02	-0.086
CM-243	1.194E-02		5.469E-02	9.313E-02	1.061E-02	0.128
AM-246	-1.368E-02		4.994E-02	8.470E-02	1.042E-02	-0.161
CF-249	1.148E-02		1.776E-02	3.134E-02	3.023E-03	0.366

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 18:58:10

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793705_GAMMA2_400MLSAN_17206.CNF

---- Sample Information ----

Sample ID	: OH207-7937-05
Sample Title	: SB-CZ-SS-2214-ST
Sample Quantity	: 4.49700E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17206

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 19-NOV-2007 15:57:51
Decay time	: 54 15:57:51.82	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.45

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**}2 + a5*x^{**}3 + a6*x^{**}4 + a7*x^{**}5$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1

Nuclide Lib File	: SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File	: SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title	: SCHOFIELD BARRACKS
Use Variable Tol	: Yes
Variable Tol	: 1.1000

Reviewer's Signature: T M Mead Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.81	463	603	0.99	149.21	144	14	19.3	1.84E+00	AM-243
										PB-214
										PB-212
2	77.03	679	592	1.05	153.63	144	14	14.2		PB-214
										PB-212
0	84.12*	144	663	1.69	167.74	163	8	64.7		
0	88.09*	448	978	3.33	175.64	171	11	28.7		PB-214
										PB-212
0	92.96*	402	902	1.58	185.35	182	11	31.5		
0	128.86	87	517	1.00	256.83	254	7	89.5		AC-228
1	186.08*	302	492	1.27	370.77	363	15	29.4	1.94E+00	
0	209.32	117	490	1.15	417.07	413	8	68.4		AC-228
3	238.78*	1884	324	1.15	475.74	468	20	5.6	4.21E+00	PB-212
3	241.39	244	308	1.23	480.94	468	20	33.5		
3	242.23	246	306	1.23	482.62	468	20	29.7		PB-214
0	270.32	215	395	1.74	538.57	533	12	39.3		RA-223
										AC-228
0	277.73	94	323	1.13	553.34	550	8	69.8		TL-208
0	295.22*	626	372	1.21	588.18	581	12	14.9		PB-214
0	300.61	69	351	1.16	598.92	594	9	101.5		PB-212
0	328.10	109	314	1.19	653.70	649	10	64.3		
0	338.53*	346	261	1.26	674.47	670	9	20.3		AC-228
0	352.16*	1068	243	1.23	701.63	696	10	8.3		PB-214
0	463.54	106	181	1.75	923.61	919	11	53.2		AC-228
0	511.17*	184	301	1.82	1018.56	1012	17	49.5		TL-208
0	583.59*	532	200	1.29	1162.96	1157	12	13.9		TL-208
0	609.47*	762	126	1.43	1214.56	1209	10	9.3		BI-214
0	661.71	458	127	1.38	1318.74	1311	14	14.0		CS-137
0	727.61	99	112	0.95	1450.21	1444	11	46.3		BI-212
0	769.13	152	101	2.11	1533.05	1526	18	34.8		BI-214
0	785.91	46	55	1.42	1566.52	1561	9	66.3		BI-212
0	795.57	86	83	1.46	1585.80	1582	12	47.1		AC-228
0	859.95	89	42	1.66	1714.26	1707	12	36.0		TL-208
0	904.60	24	42	0.72	1803.39	1800	8	99.0		
0	911.31*	383	109	1.77	1816.79	1809	18	16.7		AC-228
2	964.45	103	84	2.10	1922.88	1917	23	38.0	2.70E+00	AC-228
2	968.95*	241	51	1.60	1931.85	1917	23	17.4		AC-228
0	1120.19*	141	102	1.70	2233.87	2226	17	37.3		BI-214
0	1238.00*	104	53	1.85	2469.22	2459	20	40.2		BI-214
0	1377.44*	38	39	1.20	2747.90	2741	13	76.6		BI-214
0	1459.66*	576	30	1.78	2912.27	2902	20	9.8		K-40
0	1589.97	75	29	4.19	3172.89	3163	24	44.9		AC-228
0	1762.74*	120	22	2.23	3518.58	3512	16	25.5		BI-214
0	1845.98	30	11	1.61	3685.18	3679	12	59.5		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	84.12	144	663	1.69	167.74	163	8	1.33E-02	64.7	2.38E+00	
0	92.96	402	902	1.58	185.35	182	11	3.72E-02	31.5	2.71E+00	T
1	186.08	302	492	1.27	370.77	363	15	2.80E-02	29.4	3.21E+00	
3	241.39	244	308	1.23	480.94	468	20	2.26E-02	33.5	2.78E+00	
0	328.10	109	314	1.19	653.70	649	10	1.01E-02	64.3	2.20E+00	
0	904.60	24	42	0.72	1803.39	1800	8	2.26E-03	99.0	9.56E-01	
0	1845.98	30	11	1.61	3685.18	3679	12	2.73E-03	59.5	5.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.457E+00	5.223E-01	2.301E-01	1.482E-02	19.365
CS-137	2.473E-01	4.456E-02	2.807E-02	3.194E-03	8.808
TL-208	2.596E-01	4.516E-02	2.779E-02	2.894E-03	9.343
BI-212	4.119E-01	1.960E-01	1.963E-01	2.146E-02	2.099
PB-212	8.646E-01	8.211E-02	4.152E-02	3.173E-03	20.822
BI-214	7.075E-01	9.986E-02	4.962E-02	5.284E-03	14.257
PB-214	7.621E-01	8.597E-02	4.906E-02	3.761E-03	15.536
RA-223	3.398E-01	1.370E-01	1.258E-01	1.119E-02	2.700
AC-228	8.701E-01	1.636E-01	8.907E-02	7.740E-03	9.768
AM-243	1.938E-01	5.378E-02	4.954E-02	9.876E-03	3.912

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	8.396E-03		1.577E-02	2.208E-02	1.284E-03	0.380
RH-101	9.220E-03		1.656E-02	2.726E-02	4.255E-03	0.338
SB-125	-1.705E-02		4.184E-02	6.944E-02	5.693E-03	-0.245
EU-155	2.872E-02		5.655E-02	9.593E-02	8.982E-03	0.299
PO-209	3.927E-01		2.785E+00	4.940E+00	9.471E-01	0.079
BI-211	-4.392E-01		4.215E-01	6.741E-01	6.599E-02	-0.651
PA-233	-4.929E-03		2.780E-02	4.743E-02	3.820E-03	-0.104
PA-234M	1.732E+00		1.777E+00	3.333E+00	2.601E-01	0.520
TH-234	1.534E+00	+	5.076E-01	5.694E-01	5.695E-02	2.694
U-235	5.723E-02		9.968E-02	1.670E-01	1.219E-02	0.343
NP-236	5.148E-02		3.677E-02	5.768E-02	5.733E-03	0.893
NP-237	5.359E-01		1.858E-01	2.422E-01	3.044E-02	2.212
NP-239	8.232E-02		1.008E-01	1.783E-01	2.406E-02	0.462
AM-241	2.477E-03		8.413E-02	1.440E-01	9.443E-03	0.017
CM-243	1.314E-02		5.142E-02	8.669E-02	9.373E-03	0.152
AM-246	3.404E-02		4.788E-02	8.895E-02	1.138E-02	0.383
CF-249	7.488E-03		1.724E-02	3.001E-02	2.875E-03	0.250

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 18:58:51

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793706_GAMMA3_400MLSAN_17207.CNF

---- Sample Information ----

Sample ID	: OH207-7937-06		
Sample Title	: SB-CZ-SS-2215-ST		
Sample Quantity	: 4.35200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17207		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 19-NOV-2007 15:58:36
Decay time	: 54 15:58:36.57	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.04

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T Mc Moar Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.38*	128	762	1.35	140.79	136	10	87.4		TH-234
1	74.88*	668	953	1.44	166.29	159	19	19.9	9.12E-01	AM-243
										PB-214
										PB-212
1	77.14*	1099	856	1.30	171.29	159	19	11.9		PB-214
										PB-212
0	87.37	252	908	1.13	193.98	189	9	44.9		NP-237
										PB-214
										PB-212
4	89.90	167	570	0.91	199.59	197	15	46.8	9.96E-01	
4	92.96*	398	925	1.62	206.37	197	15	33.6		TH-234
0	129.07	144	644	1.11	286.40	281	10	68.2		AC-228
0	186.20*	432	688	1.19	413.04	407	14	28.3		
0	209.28	137	425	1.15	464.20	461	9	56.8		AC-228
1	238.67*	1871	320	1.55	529.34	521	29	6.0	2.57E+00	PB-212
1	241.58	386	320	1.68	535.78	521	29	26.7		PB-214
0	270.11	261	381	1.91	599.03	592	15	34.7		RA-223
										AC-228
0	278.01*	99	394	1.12	616.54	611	13	87.0		TL-208
0	295.26*	510	390	1.49	654.78	648	13	18.4		PB-214
0	300.41	126	278	2.14	666.18	661	11	54.4		PB-212
0	338.60	364	309	1.57	750.84	745	14	23.1		AC-228
0	351.97*	844	382	1.36	780.48	773	17	12.7		PB-214
0	510.77*	169	223	1.83	1132.43	1125	17	47.3		TL-208
0	583.08*	531	175	1.70	1292.70	1283	16	14.4		TL-208
0	609.35*	711	123	1.70	1350.92	1341	18	10.6		BI-214
0	661.68	361	123	1.95	1466.90	1460	14	16.7		CS-137
0	727.11*	118	98	2.13	1611.93	1606	13	39.7		BI-212
0	767.72	118	98	1.41	1701.92	1693	15	41.0		BI-214
0	794.74	94	80	1.43	1761.80	1754	14	45.5		AC-228
0	860.33	97	72	1.77	1907.16	1899	16	44.0		TL-208
0	911.28*	334	88	1.73	2020.09	2013	14	16.4		AC-228
0	934.45	32	42	1.84	2071.43	2066	10	84.3		BI-214
3	964.72	87	37	2.06	2138.52	2132	24	38.8	1.44E+00	AC-228
3	969.23	218	41	1.93	2148.52	2132	24	18.3		AC-228
0	1120.83*	153	48	2.09	2484.49	2477	20	28.2		BI-214
0	1238.11	64	56	1.35	2744.40	2737	14	55.4		BI-214
0	1408.28	35	12	1.38	3121.49	3116	12	52.1		BI-214
0	1460.76*	537	6	2.43	3237.78	3226	21	9.1		K-40
0	1764.39*	108	10	1.76	3910.59	3900	19	24.4		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.90	167	570	0.91	199.59	197	15	1.54E-02	46.8	3.55E+00	
0	186.20	432	688	1.19	413.04	407	14	4.00E-02	28.3	2.81E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.190E+00	5.632E-01	2.172E-01	1.278E-02	23.896
CS-137	2.333E-01	4.246E-02	3.741E-02	2.694E-03	6.235
TL-208	3.085E-01	5.087E-02	3.257E-02	2.593E-03	9.471
BI-212	5.911E-01	2.385E-01	2.514E-01	1.825E-02	2.351
PB-212	1.034E+00	9.902E-02	5.248E-02	3.923E-03	19.708
BI-214	7.863E-01	1.025E-01	5.686E-02	4.332E-03	13.829
PB-214	7.203E-01	1.081E-01	6.206E-02	4.937E-03	11.607
RA-223	4.981E-01	1.786E-01	1.644E-01	1.455E-02	3.030
AC-228	9.278E-01	1.658E-01	1.131E-01	7.954E-03	8.201
TH-234	1.192E+00	4.144E-01	3.642E-01	3.260E-02	3.273
NP-237	3.292E-01	1.522E-01	1.942E-01	2.165E-02	1.695
AM-243	1.612E-01	4.461E-02	3.243E-02	6.237E-03	4.971

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.147E-02		1.954E-02	2.986E-02	1.584E-03	0.384
RH-101	2.758E-03		1.944E-02	3.267E-02	5.042E-03	0.084
SB-125	-3.197E-02		4.985E-02	8.405E-02	6.948E-03	-0.380
EU-155	8.493E-02		5.402E-02	9.585E-02	9.013E-03	0.886
PO-209	-2.622E-01		3.704E+00	6.556E+00	1.208E+00	-0.040
BI-211	-4.332E-01		5.374E-01	8.614E-01	6.204E-02	-0.503
PA-233	-5.609E-03		3.497E-02	5.826E-02	4.754E-03	-0.096
PA-234M	1.918E+00		2.191E+00	4.155E+00	2.837E-01	0.462
U-235	4.091E-02		1.189E-01	2.036E-01	1.511E-02	0.201
NP-236	5.428E-02		3.425E-02	5.375E-02	5.129E-03	1.010
NP-239	-5.033E-02		1.261E-01	2.097E-01	2.805E-02	-0.240
AM-241	6.888E-03		3.991E-02	5.814E-02	3.679E-03	0.118
CM-243	1.064E-03		4.919E-02	8.484E-02	9.142E-03	0.013
AM-246	4.511E-02		6.608E-02	1.230E-01	1.553E-02	0.367
CF-249	1.467E-03		2.151E-02	3.764E-02	3.748E-03	0.039

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 22:01:43

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793707_GAMMA1_400MLSAN_17208.CNF

---- Sample Information ----

Sample ID	: OH207-7937-07		
Sample Title	: SB-CZ-SS-2216-ST		
Sample Quantity	: 4.43100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17208		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 19-NOV-2007 19:01:20
Decay time	: 54 19:01:20.28	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.19

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**}2 + a5*x^{**}3 + a6*x^{**}4 + a7*x^{**}5$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.88*	336	408	0.93	149.16	144	21	22.0	1.98E+00	AM-243
										PB-214
										PB-212
1	77.23*	548	383	0.99	153.88	144	21	14.4		PB-214
										PB-212
2	84.09*	103	306	1.15	167.62	165	13	56.6	1.11E+00	
2	87.25	219	464	1.15	173.94	165	13	35.3		NP-237
										PB-214
										PB-212
0	89.91	107	369	0.98	179.27	178	5	57.0		
0	92.95*	183	529	1.50	185.35	182	8	48.2		
0	129.34	83	476	0.93	258.22	254	8	93.5		AC-228
0	154.08	65	343	1.47	307.76	305	7	97.0		
0	186.16*	277	463	1.35	372.00	367	10	32.7		
0	209.17	171	456	1.16	418.07	414	11	50.5		AC-228
2	238.62*	1503	263	1.08	477.04	470	19	6.4	2.81E+00	PB-212
2	240.97	168	254	1.35	481.74	470	19	48.8		
2	242.01	232	245	1.27	483.82	470	19	30.0		PB-214
1	269.94	135	210	1.27	539.76	533	15	42.4	2.41E+00	RA-223
										AC-228
1	271.06	56	182	1.20	542.00	533	15	94.0		
0	295.16*	400	249	1.13	590.26	586	10	18.0		PB-214
0	300.01	90	183	1.28	599.96	596	8	56.1		PB-212
0	328.29	97	193	0.92	656.59	652	10	57.3		
0	338.29*	307	297	1.18	676.62	670	14	26.7		AC-228
0	351.87*	765	157	1.33	703.80	699	12	10.0		PB-214
0	463.26	117	181	1.40	926.82	919	15	53.5		AC-228
0	510.86*	226	173	1.76	1022.13	1014	18	33.6		TL-208
0	583.13*	540	114	1.33	1166.83	1162	13	12.1		TL-208
0	609.26*	590	127	1.39	1219.15	1214	13	11.6		BI-214
0	727.39*	132	96	1.87	1455.64	1450	12	35.1		BI-212
0	768.33	46	80	1.42	1537.61	1533	9	76.5		BI-214
0	786.09	41	67	1.79	1573.17	1568	14	91.5		BI-212
0	795.32	63	77	1.33	1591.65	1586	11	60.2		AC-228
0	860.30	96	60	1.61	1721.72	1714	14	39.6		TL-208
0	910.91*	361	82	1.57	1823.05	1815	17	15.7		AC-228
2	964.51	51	66	2.06	1930.36	1924	20	69.4	2.06E+00	AC-228
2	968.62*	173	61	1.82	1938.57	1924	20	23.9		AC-228
0	1120.01*	119	49	1.50	2241.64	2234	14	31.5		BI-214
0	1237.70	62	42	1.23	2477.21	2470	14	50.8		BI-214
0	1407.38	23	18	1.39	2816.86	2810	12	83.3		BI-214
0	1460.19*	324	34	1.76	2922.55	2915	15	13.8		K-40
0	1590.70	64	36	5.89	3183.76	3170	25	57.0		
0	1728.62	32	26	0.78	3459.79	3450	21	86.6		BI-214
0	1763.69*	95	16	2.32	3529.98	3522	16	28.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	84.09	103	306	1.15	167.62	165	13	9.54E-03	56.6	2.10E+00	
0	89.91	107	369	0.98	179.27	178	5	9.92E-03	57.0	2.32E+00	
0	92.95	183	529	1.50	185.35	182	8	1.70E-02	48.2	2.43E+00	T
0	154.08	65	343	1.47	307.76	305	7	6.04E-03	97.0	3.17E+00	
0	186.16	277	463	1.35	372.00	367	10	2.56E-02	32.7	3.03E+00	
2	240.97	168	254	1.35	481.74	470	19	1.55E-02	48.8	2.64E+00	
1	271.06	56	182	1.20	542.00	533	15	5.16E-03	94.0	2.44E+00	
0	328.29	97	193	0.92	656.59	652	10	8.97E-03	57.3	2.10E+00	
0	1590.70	64	36	5.89	3183.76	3170	25	5.94E-03	57.0	6.64E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.429E+00	3.748E-01	1.946E-01	1.328E-02	12.487
TL-208	2.711E-01	4.252E-02	2.443E-02	2.452E-03	11.098
BI-212	5.569E-01	2.026E-01	1.814E-01	1.745E-02	3.070
PB-212	7.375E-01	7.374E-02	3.735E-02	2.882E-03	19.748
BI-214	5.608E-01	8.674E-02	4.453E-02	4.536E-03	12.593
PB-214	5.772E-01	7.332E-02	4.371E-02	3.449E-03	13.205
RA-223	2.282E-01	9.902E-02	1.211E-01	1.114E-02	1.885
AC-228	8.117E-01	1.351E-01	8.385E-02	4.634E-03	9.681
NP-237	4.555E-01	1.737E-01	1.909E-01	2.761E-02	2.386
AM-243	1.668E-01	5.077E-02	4.763E-02	9.993E-03	3.502

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-9.189E-04		1.272E-02	2.201E-02	1.436E-03	-0.042
RH-101	2.051E-02		1.493E-02	2.553E-02	3.960E-03	0.803
SB-125	-1.280E-02		3.843E-02	6.486E-02	5.319E-03	-0.197
CS-137	2.755E-02		1.671E-02	3.183E-02	3.421E-03	0.866
EU-155	3.920E-02		5.191E-02	9.043E-02	8.979E-03	0.433
PO-209	1.676E+00		2.647E+00	4.905E+00	8.778E-01	0.342
BI-211	-5.653E-01		3.958E-01	6.139E-01	4.473E-02	-0.921
PA-233	-5.714E-03		2.426E-02	4.190E-02	3.519E-03	-0.136
PA-234M	1.437E+00		1.527E+00	2.930E+00	1.684E-01	0.490
TH-234	7.904E-01	+	3.920E-01	5.363E-01	6.257E-02	1.474
U-235	-5.686E-02		9.319E-02	1.521E-01	1.062E-02	-0.374
NP-236	-1.278E-02		3.053E-02	5.070E-02	5.569E-03	-0.252
NP-239	4.068E-03		9.291E-02	1.527E-01	2.061E-02	0.027
AM-241	-6.694E-03		8.227E-02	1.431E-01	1.138E-02	-0.047
CM-243	-2.103E-02		4.738E-02	7.924E-02	9.031E-03	-0.265
AM-246	3.037E-02		4.093E-02	7.808E-02	9.609E-03	0.389
CF-249	-2.165E-04		1.573E-02	2.721E-02	2.625E-03	-0.008

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 22:02:37

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793708_GAMMA2_400MLSAN_17209.CNF

---- Sample Information ----

Sample ID	: OH207-7937-08		
Sample Title	: SB-CZ-SS-2217-ST		
Sample Quantity	: 4.70800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17209		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 19-NOV-2007 19:02:18
Decay time	: 54 19:02:18.44	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.56

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Mead Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.44*	94	786	2.00	126.57	123	8107.2			TH-234
3	74.90	540	740	0.93	149.38	145	16	18.1	1.58E+00	AM-243
										PB-214
										PB-212
3	77.09	923	660	1.02	153.74	145	16	11.2		PB-214
										PB-212
4	87.17*	346	689	1.23	173.82	164	27	27.6	1.41E+00	NP-237
										PB-214
										PB-212
4	89.95	226	580	0.99	179.34	164	27	36.5		
4	92.98*	449	848	1.49	185.39	164	27	26.4		TH-234
0	129.58	119	693	0.83	258.25	254	8	79.2		AC-228
0	186.16*	388	770	1.37	370.93	366	11	30.2		
0	209.27	337	610	1.21	416.96	412	10	29.5		AC-228
3	238.77*	2441	408	1.10	475.72	471	16	4.9	1.65E+00	PB-212
3	241.15	236	255	1.07	480.46	471	16	33.2		
3	242.20	217	279	1.23	482.55	471	16	34.3		PB-214
0	270.48	309	492	1.51	538.90	531	15	33.4		RA-223
										AC-228
0	277.22	91	259	1.03	552.32	549	7	62.6		TL-208
0	295.40*	588	387	1.25	588.54	582	13	16.3		PB-214
0	300.36	131	312	1.02	598.42	594	9	51.6		PB-212
0	328.27	107	292	1.05	654.03	650	9	60.8		
0	338.51*	525	348	1.17	674.43	668	13	17.2		AC-228
0	352.14*	930	307	1.35	701.59	696	14	10.5		PB-214
0	409.59	86	214	1.05	816.08	812	10	66.9		AC-228
0	463.16	175	175	1.11	922.85	917	11	33.1		AC-228
0	510.99*	201	263	1.84	1018.19	1011	15	41.0		TL-208
0	583.25*	762	230	1.41	1162.27	1155	15	11.4		TL-208
0	609.49*	676	126	1.40	1214.60	1209	11	10.2		BI-214
0	728.15	234	120	1.98	1451.28	1445	17	25.4		BI-212
0	768.19	63	67	1.89	1531.16	1526	10	54.8		BI-214
0	795.30	95	95	1.23	1585.27	1578	12	46.3		AC-228
0	860.60	112	81	1.78	1715.57	1710	13	38.1		TL-208
0	911.14*	589	86	1.50	1816.44	1809	15	10.9		AC-228
2	964.66	110	50	1.74	1923.29	1914	25	29.3	1.40E+00	AC-228
2	968.84*	351	39	1.82	1931.63	1914	25	13.1		AC-228
0	1119.99*	177	81	2.32	2233.47	2225	20	29.3		BI-214
0	1237.71*	64	22	2.56	2468.65	2464	9	37.4		BI-214
0	1377.10*	55	27	2.57	2747.21	2742	16	51.8		BI-214
0	1459.82*	549	28	1.74	2912.60	2905	18	9.9		K-40
3	1586.68*	55	9	2.42	3166.30	3161	20	33.4	9.88E-01	AC-228
3	1591.20	42	7	2.37	3175.34	3161	20	44.0		
0	1619.87	19	16	1.23	3232.70	3228	9	90.1		BI-212
0	1762.56*	115	14	2.52	3518.21	3511	14	24.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.95	226	580	0.99	179.34	164	27	2.09E-02	36.5	2.61E+00	
0	186.16	388	770	1.37	370.93	366	11	3.59E-02	30.2	3.21E+00	
3	241.15	236	255	1.07	480.46	471	16	2.19E-02	33.2	2.78E+00	
0	328.27	107	292	1.05	654.03	650	9	9.91E-03	60.8	2.20E+00	
3	1591.20	42	7	2.37	3175.34	3161	20	3.88E-03	44.0	6.33E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.053E+00	4.789E-01	2.256E-01	1.452E-02	17.964
TL-208	3.553E-01	5.479E-02	2.637E-02	2.746E-03	13.470
BI-212	9.327E-01	2.576E-01	2.010E-01	2.198E-02	4.639
PB-212	1.070E+00	9.716E-02	4.190E-02	3.202E-03	25.529
BI-214	5.992E-01	8.850E-02	4.826E-02	5.139E-03	12.416
PB-214	6.334E-01	8.220E-02	5.038E-02	3.863E-03	12.574
RA-223	4.662E-01	1.610E-01	1.252E-01	1.114E-02	3.724
AC-228	1.276E+00	1.775E-01	8.832E-02	7.674E-03	14.451
TH-234	1.635E+00	4.620E-01	4.258E-01	4.259E-02	3.840
NP-237	5.995E-01	1.818E-01	2.012E-01	2.529E-02	2.980
AM-243	2.161E-01	5.817E-02	4.937E-02	9.841E-03	4.377

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.314E-03		1.426E-02	2.566E-02	1.493E-03	0.168
RH-101	-2.338E-03		1.601E-02	2.581E-02	4.030E-03	-0.091
SB-125	3.859E-02		3.915E-02	6.977E-02	5.720E-03	0.553
CS-137	-4.175E-03		1.533E-02	2.653E-02	3.018E-03	-0.157
EU-155	2.165E-02		5.793E-02	9.767E-02	9.145E-03	0.222
PO-209	-1.245E+00		2.845E+00	4.773E+00	9.151E-01	-0.261
BI-211	-3.374E-01		4.276E-01	7.007E-01	6.859E-02	-0.481
PA-233	1.645E-03		2.622E-02	4.521E-02	3.641E-03	0.036
PA-234M	2.263E+00		1.814E+00	3.429E+00	2.677E-01	0.660
U-235	1.908E-02		1.010E-01	1.670E-01	1.219E-02	0.114
NP-236	-9.337E-03		3.492E-02	5.519E-02	5.486E-03	-0.169
NP-239	7.437E-03		9.931E-02	1.725E-01	2.328E-02	0.043
AM-241	2.983E-02		9.793E-02	1.515E-01	9.937E-03	0.197
CM-243	-2.403E-02		5.181E-02	8.525E-02	9.216E-03	-0.282
AM-246	2.601E-02		4.754E-02	8.676E-02	1.110E-02	0.300
CF-249	2.290E-03		1.762E-02	3.016E-02	2.890E-03	0.076

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-NOV-2007 22:03:38

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793709_GAMMA3_400MLSAN_17210.CNF

---- Sample Information ----

Sample ID	: OH207-7937-09
Sample Title	: SB-CZ-SS-2218-ST
Sample Quantity	: 3.63200E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17210

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 19-NOV-2007 19:03:13
Decay time	: 54 19:03:13.11	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.87

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.54*	185	759	1.28	141.16	135	11	62.5		TH-234
3	74.85*	575	769	1.35	166.23	162	19	19.5	2.49E+00	AM-243
										PB-214
										PB-212
3	77.15*	889	635	1.36	171.32	162	19	13.1		PB-214
										PB-212
2	87.29	416	596	1.61	193.79	181	32	25.1	1.17E+00	NP-237
										PB-214
										PB-212
2	90.01	274	478	1.34	199.83	181	32	32.7		
2	92.74*	419	517	1.54	205.89	181	32	25.5		TH-234
0	186.05*	325	398	1.36	412.71	407	12	28.4		
0	208.91	162	328	1.07	463.37	459	10	44.5		AC-228
1	238.67*	1420	277	1.44	529.34	524	18	7.1	1.17E+00	PB-212
1	241.54	273	279	1.68	535.71	524	18	33.3		PB-214
0	271.02	154	370	0.91	601.04	593	16	58.3		RA-223
										AC-228
0	277.66*	60	194	1.13	615.76	612	9	88.5		TL-208
2	295.28*	305	174	1.71	654.82	649	30	20.1	1.42E+00	PB-214
2	300.16	105	180	1.92	665.63	649	30	58.5		PB-212
0	338.46	288	242	1.67	750.52	744	14	25.8		AC-228
0	352.23*	444	227	1.50	781.05	775	15	17.9		PB-214
0	462.99	52	166	1.86	1026.54	1021	13	105.9		AC-228
0	511.11*	150	173	2.22	1133.18	1125	20	50.6		TL-208
0	583.17*	367	72	1.38	1292.90	1287	12	14.4		TL-208
0	609.09*	263	222	1.77	1350.36	1343	20	30.5		BI-214
0	727.23*	96	75	1.72	1612.18	1604	16	45.9		BI-212
0	794.70	69	71	0.75	1761.73	1754	15	58.7		AC-228
0	860.64	56	56	1.28	1907.86	1900	15	64.7		TL-208
0	911.07*	279	56	1.18	2019.61	2011	16	17.3		AC-228
0	969.18	177	48	1.97	2148.42	2143	12	22.0		AC-228
0	1121.05*	66	48	1.36	2484.98	2480	14	52.4		BI-214
0	1377.89	29	6	1.96	3054.15	3050	9	49.6		BI-214
0	1461.12*	195	32	2.70	3238.58	3227	22	21.5		K-40
0	1589.72	33	30	0.81	3523.55	3511	20	88.5		AC-228
0	1764.67*	64	8	2.12	3911.20	3902	16	33.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	90.01	274	478	1.34	199.83	181	32	2.54E-02	32.7	3.55E+00	
0	186.05	325	398	1.36	412.71	407	12	3.01E-02	28.4	2.81E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.254E+00	5.022E-01	3.090E-01	1.818E-02	7.296
TL-208	2.556E-01	4.203E-02	3.256E-02	2.591E-03	7.852
BI-212	5.784E-01	2.690E-01	2.576E-01	1.870E-02	2.245
PB-212	9.405E-01	9.718E-02	5.332E-02	3.986E-03	17.639
BI-214	3.493E-01	1.099E-01	6.989E-02	5.325E-03	4.998
PB-214	4.546E-01	8.925E-02	6.301E-02	5.013E-03	7.215
RA-223	3.510E-01	2.071E-01	1.687E-01	1.494E-02	2.080
AC-228	9.274E-01	1.736E-01	1.231E-01	8.658E-03	7.532
TH-234	1.505E+00	4.066E-01	3.748E-01	3.356E-02	4.015
NP-237	6.510E-01	1.787E-01	1.629E-01	1.815E-02	3.997
AM-243	1.662E-01	4.550E-02	3.675E-02	7.068E-03	4.521

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.160E-04		1.966E-02	3.253E-02	1.725E-03	-0.004
RH-101	6.750E-03		1.992E-02	3.371E-02	5.203E-03	0.200
SB-125	1.807E-02		5.205E-02	9.290E-02	7.680E-03	0.195
CS-137	3.795E-03		2.252E-02	3.934E-02	2.832E-03	0.096
EU-155	3.583E-02		5.831E-02	1.023E-01	9.623E-03	0.350
PO-209	8.839E-01		3.766E+00	6.900E+00	1.271E+00	0.128
BI-211	-6.037E-01		5.735E-01	8.945E-01	6.442E-02	-0.675
PA-233	3.449E-02		3.498E-02	6.192E-02	5.053E-03	0.557
PA-234M	2.008E+00		2.528E+00	4.792E+00	3.272E-01	0.419
U-235	7.247E-02		1.189E-01	2.058E-01	1.528E-02	0.352
NP-236	2.913E-02		3.808E-02	5.602E-02	5.346E-03	0.520
NP-239	-6.100E-02		1.289E-01	2.141E-01	2.864E-02	-0.285
AM-241	3.010E-02		4.316E-02	6.449E-02	4.081E-03	0.467
CM-243	4.260E-02		5.260E-02	9.268E-02	9.987E-03	0.460
AM-246	-6.407E-03		6.327E-02	1.128E-01	1.424E-02	-0.057
CF-249	-2.365E-03		2.191E-02	3.826E-02	3.811E-03	-0.062

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 01:18:52

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793710_GAMMA3_400MLSAN_17213.CNF

---- Sample Information ----

Sample ID	: OH207-7937-10
Sample Title	: SB-CZ-SS-2219-ST
Sample Quantity	: 5.50900E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17213

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 19-NOV-2007 22:18:28
Decay time	: 54 22:18:28.68	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.27

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.09*	200	1024	1.24	140.15	134	11	65.9		TH-234
4	74.88*	775	931	1.18	166.29	161	23	15.6	1.01E+00	AM-243
										PB-214
										PB-212
4	77.14*	1337	1000	1.36	171.31	161	23	10.6		PB-214
										PB-212
0	84.04*	165	752	1.71	186.60	183	7	58.3		
3	87.20	506	747	1.33	193.61	190	24	19.5	4.33E+00	NP-237
										PB-214
										PB-212
3	89.99	457	1185	1.75	199.79	190	24	32.8		
3	92.81*	436	907	1.49	206.04	190	24	30.7		TH-234
0	128.87	284	1189	1.50	285.97	278	14	52.9		AC-228
0	185.98*	507	812	1.64	412.54	407	12	24.8		
0	209.67	335	803	1.74	465.07	459	14	37.1		AC-228
2	238.64*	2360	489	1.54	529.27	520	22	5.5	2.80E+00	PB-212
2	241.81	657	525	1.85	536.29	520	22	19.1		PB-214
0	270.55	200	586	1.50	600.00	592	14	53.4		RA-223
										AC-228
4	295.33*	816	350	1.42	654.92	649	23	10.7	1.45E+00	PB-214
4	300.20	198	387	2.32	665.73	649	23	46.5		PB-212
0	328.27	105	393	1.09	727.93	723	11	75.5		
0	338.73	426	453	1.28	751.13	743	15	23.9		AC-228
0	352.05*	1463	348	1.61	780.64	775	14	7.6		PB-214
0	409.53	135	303	1.33	908.05	901	15	59.0		AC-228
0	462.76	175	207	2.03	1026.03	1020	12	36.2		AC-228
0	510.59*	303	168	2.13	1132.04	1125	14	24.0		TL-208
0	583.19*	710	262	1.63	1292.94	1284	19	13.4		TL-208
0	609.23*	1001	274	1.80	1350.65	1344	18	10.0		BI-214
3	661.62	333	137	1.83	1466.78	1460	19	17.7	7.20E-01	CS-137
3	665.24	54	93	1.42	1474.80	1460	19	72.8		
0	727.26*	153	168	2.60	1612.26	1604	17	42.5		BI-212
0	795.55	104	155	1.63	1763.59	1755	19	61.1		AC-228
0	861.21	43	114	1.15	1909.13	1901	13	107.0		TL-208
0	911.16*	499	130	1.66	2019.83	2010	20	14.5		AC-228
0	969.08	290	97	1.67	2148.19	2143	13	18.5		AC-228
0	1120.46*	252	70	2.05	2483.67	2477	16	19.6		BI-214
0	1238.72	63	77	1.14	2745.75	2737	12	60.2		BI-214
0	1272.39	37	40	0.81	2820.35	2810	16	83.7		
1	1377.37	28	37	2.20	3053.00	3046	15	113.7	2.28E+00	BI-214
1	1378.28	24	22	2.20	3055.00	3046	15	107.7		
0	1408.33	63	28	0.92	3121.60	3112	22	49.4		BI-214
0	1460.92*	718	62	2.03	3238.14	3230	17	9.2		K-40
0	1509.28	41	33	1.57	3345.31	3336	17	71.7		BI-214
0	1764.47*	186	13	2.65	3910.78	3899	19	17.9		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	84.04	165	752	1.71	186.60	183	7	1.53E-02	58.3	3.55E+00	
3	89.99	457	1185	1.75	199.79	190	24	4.23E-02	32.8	3.55E+00	
0	185.98	507	812	1.64	412.54	407	12	4.69E-02	24.8	2.81E+00	
0	328.27	105	393	1.09	727.93	723	11	9.72E-03	75.5	1.89E+00	
3	665.24	54	93	1.42	1474.80	1460	19	5.01E-03	72.8	1.05E+00	
0	1272.39	37	40	0.81	2820.35	2810	16	3.41E-03	83.7	6.17E-01	
1	1378.28	24	22	2.20	3055.00	3046	15	2.25E-03	****	5.82E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.485E+00	5.969E-01	2.433E-01	1.432E-02	22.543
CS-137	1.698E-01	3.247E-02	3.076E-02	2.214E-03	5.522
TL-208	3.260E-01	5.094E-02	2.837E-02	2.258E-03	11.491
BI-212	6.069E-01	2.617E-01	2.210E-01	1.604E-02	2.747
PB-212	1.030E+00	9.553E-02	4.826E-02	3.607E-03	21.349
BI-214	8.753E-01	1.100E-01	5.567E-02	4.241E-03	15.725
PB-214	9.868E-01	1.086E-01	5.733E-02	4.561E-03	17.214
RA-223	3.003E-01	1.627E-01	1.567E-01	1.388E-02	1.916
AC-228	1.095E+00	1.762E-01	1.045E-01	7.345E-03	10.483
TH-234	1.032E+00	3.302E-01	3.221E-01	2.884E-02	3.203
NP-237	5.217E-01	1.172E-01	1.536E-01	1.712E-02	3.396
AM-243	1.477E-01	3.662E-02	2.853E-02	5.486E-03	5.178

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-8.969E-03		1.799E-02	2.993E-02	1.587E-03	-0.300
RH-101	-6.704E-03		1.783E-02	2.948E-02	4.551E-03	-0.227
SB-125	-6.144E-03		4.579E-02	7.887E-02	6.521E-03	-0.078
EU-155	6.214E-02		5.177E-02	9.057E-02	8.517E-03	0.686
PO-209	-1.546E-01		3.310E+00	5.830E+00	1.074E+00	-0.027
BI-211	-4.140E-01		4.961E-01	7.942E-01	5.719E-02	-0.521
PA-233	1.552E-02		3.117E-02	5.306E-02	4.330E-03	0.292
PA-234M	3.342E+00		2.024E+00	3.918E+00	2.675E-01	0.853
U-235	7.075E-02		1.067E-01	1.832E-01	1.360E-02	0.386
NP-236	2.075E-02		3.240E-02	4.689E-02	4.475E-03	0.443
NP-239	-3.541E-02		1.173E-01	1.952E-01	2.612E-02	-0.181
AM-241	3.382E-02		3.403E-02	5.089E-02	3.220E-03	0.665
CM-243	4.029E-02		4.642E-02	8.085E-02	8.713E-03	0.498
AM-246	4.994E-02		6.539E-02	1.194E-01	1.507E-02	0.418
CF-249	2.682E-02		2.089E-02	3.752E-02	3.736E-03	0.715

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 11:57:22

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793711_GAMMA1_400MLSAN_17214.CNF

---- Sample Information ----

Sample ID	: OH207-7937-11
Sample Title	: SB-CZ-SS-2220-ST
Sample Quantity	: 4.92300E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17214

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 20-NOV-2007 08:57:02
Decay time	: 55 08:57:02.47	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:03.04

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.97*	487	609	1.02	149.35	142	18	18.5	8.96E-01	AM-243
										PB-214
										PB-212
3	77.21*	800	698	1.11	153.84	142	18	13.2		PB-214
										PB-212
4	87.39	504	640	1.38	174.22	165	28	19.7	2.83E+00	NP-237
										PB-214
										PB-212
4	89.90	314	644	1.40	179.25	165	28	31.3		
4	92.89*	394	650	1.29	185.24	165	28	25.7		
0	129.37	197	965	1.27	258.28	253	11	62.8		AC-228
0	154.16	165	548	1.24	307.92	305	7	49.6		
0	185.93*	434	910	1.30	371.54	367	11	29.0		
0	209.33	202	522	1.11	418.40	415	8	41.6		AC-228
0	238.60*	2176	737	1.04	477.00	473	8	6.1		PB-212
0	241.73	452	500	1.60	483.28	481	7	19.5		PB-214
4	270.04	185	356	1.28	539.97	536	12	39.5	1.83E+00	RA-223
										AC-228
4	270.91	116	445	1.62	541.71	536	12	74.1		
0	277.73	97	391	1.19	555.36	550	9	76.2		TL-208
0	295.17*	904	498	1.09	590.27	584	12	11.9		PB-214
0	300.02	131	348	0.78	599.99	596	9	54.3		PB-212
0	328.02	158	369	1.71	656.04	651	11	49.7		
0	338.53*	590	436	1.34	677.09	670	15	17.6		AC-228
0	351.90*	1459	313	1.13	703.86	698	13	7.3		PB-214
0	409.36	85	277	0.96	818.92	815	10	76.6		AC-228
0	462.83	182	168	1.34	925.98	921	10	30.5		AC-228
0	510.62*	310	237	2.03	1021.65	1015	13	25.5		TL-208
0	583.12*	938	186	1.40	1166.82	1159	16	9.3		TL-208
0	609.23*	1002	215	1.46	1219.09	1211	16	9.2		BI-214
0	661.42	307	251	1.44	1323.57	1316	14	24.8		CS-137
0	665.04	28	99	1.43	1330.82	1329	7	122.2		
0	727.12*	161	150	1.22	1455.11	1449	13	35.3		BI-212
0	768.52	90	112	1.41	1537.99	1532	10	48.8		BI-214
0	786.18	51	113	1.44	1573.34	1566	11	85.9		BI-212
0	794.59	68	141	2.06	1590.19	1582	15	79.6		AC-228
0	805.41	54	117	3.12	1611.85	1604	14	90.6		BI-214
0	860.50	98	75	1.91	1722.14	1717	10	38.8		TL-208
0	911.05*	562	81	1.76	1823.32	1815	18	11.5		AC-228
1	964.91	97	56	1.87	1931.15	1924	20	39.6	1.46E+00	AC-228
1	968.69*	324	59	1.83	1938.72	1924	20	14.8		AC-228
0	1120.38*	200	113	2.00	2242.36	2234	14	25.6		BI-214
0	1238.10	95	74	2.15	2478.02	2472	12	42.7		BI-214
0	1377.45	79	55	1.56	2756.95	2749	17	50.1		BI-214
0	1460.43*	948	27	2.26	2923.03	2915	18	7.0		K-40
0	1509.21	23	33	1.14	3020.66	3015	12	105.3		BI-214
0	1587.47	43	58	1.72	3177.30	3172	12	77.6		AC-228
0	1631.05	27	39	1.68	3264.53	3258	17	111.8		
0	1729.96	66	8	2.29	3462.49	3454	19	33.1		BI-214
0	1764.07*	169	62	2.40	3530.75	3522	22	28.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.90	314	644	1.40	179.25	165	28	2.91E-02	31.3	2.32E+00	
4	92.89	394	650	1.29	185.24	165	28	3.64E-02	25.7	2.43E+00	T
0	154.16	165	548	1.24	307.92	305	7	1.53E-02	49.6	3.17E+00	
0	185.93	434	910	1.30	371.54	367	11	4.02E-02	29.0	3.03E+00	
4	270.91	116	445	1.62	541.71	536	12	1.07E-02	74.1	2.44E+00	
0	328.02	158	369	1.71	656.04	651	11	1.47E-02	49.7	2.11E+00	
0	665.04	28	99	1.43	1330.82	1329	7	2.62E-03	****	1.21E+00	
0	1631.05	27	39	1.68	3264.53	3258	17	2.50E-03	****	6.51E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	6.390E+00	6.268E-01	1.848E-01	1.262E-02	34.567
CS-137	1.515E-01	4.089E-02	2.865E-02	3.078E-03	5.289
TL-208	4.239E-01	5.798E-02	2.420E-02	2.429E-03	17.511
BI-212	6.119E-01	2.238E-01	1.864E-01	1.793E-02	3.284
PB-212	9.613E-01	9.469E-02	5.852E-02	4.516E-03	16.426
BI-214	8.573E-01	1.175E-01	4.866E-02	4.957E-03	17.617
PB-214	9.913E-01	1.066E-01	4.783E-02	3.774E-03	20.728
RA-223	2.806E-01	1.137E-01	1.381E-01	1.271E-02	2.032
AC-228	1.138E+00	1.453E-01	8.330E-02	4.604E-03	13.663
NP-237	9.417E-01	2.303E-01	2.085E-01	3.016E-02	4.516
AM-243	2.176E-01	6.092E-02	5.079E-02	1.066E-02	4.283

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.109E-03		1.406E-02	2.496E-02	1.523E-03	0.165
RH-101	-1.130E-02		1.725E-02	2.763E-02	4.286E-03	-0.409
SB-125	2.854E-02		4.053E-02	7.160E-02	5.872E-03	0.399
EU-155	4.839E-02		5.881E-02	1.014E-01	1.007E-02	0.477
PO-209	-2.659E+00		2.989E+00	4.813E+00	8.613E-01	-0.552
BI-211	-8.188E-02		4.363E-01	7.529E-01	5.485E-02	-0.109
PA-233	7.994E-03		2.870E-02	5.015E-02	4.211E-03	0.159
PA-234M	1.520E+00		1.607E+00	3.015E+00	1.733E-01	0.504
TH-234	1.530E+00	+	4.323E-01	5.823E-01	6.793E-02	2.627
U-235	5.606E-02		1.047E-01	1.766E-01	1.233E-02	0.317
NP-236	2.269E-02		3.757E-02	5.807E-02	6.379E-03	0.391
NP-239	-5.691E-02		1.105E-01	1.760E-01	2.375E-02	-0.323
AM-241	-8.821E-02		9.298E-02	1.561E-01	1.241E-02	-0.565
CM-243	-3.237E-02		5.393E-02	8.942E-02	1.019E-02	-0.362
AM-246	3.594E-02		5.091E-02	9.283E-02	1.142E-02	0.387
CF-249	1.573E-02		1.772E-02	3.147E-02	3.036E-03	0.500

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 11:59:04

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793712_GAMMA2_400MLSAN_17215.CNF

---- Sample Information ----

Sample ID	: OH207-7937-12		
Sample Title	: SB-CZ-SS-2221-ST		
Sample Quantity	: 5.06200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17215		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 20-NOV-2007 08:58:44
Decay time	: 55 08:58:44.94	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.65

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.65	502	756	1.19	148.89	142	19	20.6	2.11E+00	AM-243
										PB-214
										PB-212
2	77.03	706	648	0.95	153.63	142	19	13.7		PB-214
										PB-212
3	87.27*	327	785	1.34	174.01	164	29	31.7	2.57E+00	NP-237
										PB-214
										PB-212
3	89.77	221	752	1.35	178.98	164	29	46.5		
3	92.70*	402	711	1.36	184.83	164	29	26.6		
0	186.17*	358	771	1.27	370.95	366	10	31.6		
0	209.36	280	562	1.47	417.14	413	10	33.9		AC-228
0	238.68*	1774	982	1.09	475.55	470	10	8.2		PB-212
0	241.95	355	456	1.28	482.06	480	6	22.5		PB-214
0	270.33	219	450	1.26	538.58	534	11	39.8		RA-223
										AC-228
0	277.89	105	421	0.77	553.66	549	10	75.9		TL-208
0	295.35*	841	480	1.24	588.43	581	14	13.1		PB-214
0	300.30	169	307	1.50	598.30	594	9	40.3		PB-212
0	328.36	129	350	1.83	654.20	649	11	59.2		
0	338.53*	445	332	1.13	674.48	670	11	18.8		AC-228
0	352.17*	1340	242	1.19	701.65	698	9	7.0		PB-214
0	409.51	64	233	1.66	815.92	812	10	92.3		AC-228
0	462.99	130	260	1.61	922.52	916	14	55.3		AC-228
0	511.08*	294	218	1.89	1018.38	1012	14	26.6		TL-208
0	583.45*	684	172	1.34	1162.67	1157	13	11.2		TL-208
0	609.54*	998	152	1.31	1214.70	1209	12	8.2		BI-214
0	661.71	314	192	1.34	1318.75	1313	14	21.7		CS-137
0	727.54	154	120	1.70	1450.06	1444	12	33.0		BI-212
0	769.46	100	182	1.75	1533.71	1526	17	65.5		BI-214
0	795.16	76	90	1.36	1584.98	1580	13	55.6		AC-228
0	860.69	73	99	1.65	1715.75	1711	11	57.7		TL-208
0	911.19*	456	52	1.76	1816.55	1811	12	11.6		AC-228
0	934.69	69	63	2.61	1863.46	1855	14	54.6		BI-214
2	964.74	98	66	2.12	1923.44	1915	24	40.8	1.84E+00	AC-228
2	968.85*	288	49	1.93	1931.65	1915	24	15.8		AC-228
0	1120.19*	256	63	1.82	2233.86	2224	18	19.4		BI-214
0	1237.92*	69	65	1.46	2469.07	2464	12	53.2		BI-214
0	1377.26*	42	38	1.10	2747.55	2742	12	67.8		BI-214
0	1459.83*	770	30	2.10	2912.63	2905	15	8.0		K-40
0	1629.20	35	8	1.82	3251.36	3246	11	46.8		
0	1728.47	58	12	1.72	3449.98	3442	17	38.6		BI-214
0	1762.60*	175	29	2.37	3518.29	3508	17	21.2		BI-214
0	1845.30	25	18	1.29	3683.84	3676	12	78.8		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.77	221	752	1.35	178.98	164	29	2.05E-02	46.5	2.60E+00	
3	92.70	402	711	1.36	184.83	164	29	3.72E-02	26.6	2.70E+00	T
0	186.17	358	771	1.27	370.95	366	10	3.31E-02	31.6	3.21E+00	
0	328.36	129	350	1.83	654.20	649	11	1.19E-02	59.2	2.20E+00	
0	1629.20	35	8	1.82	3251.36	3246	11	3.20E-03	46.8	6.21E-01	
0	1845.30	25	18	1.29	3683.84	3676	12	2.31E-03	78.8	5.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.290E+00	5.439E-01	1.802E-01	1.160E-02	29.351
CS-137	1.507E-01	3.696E-02	2.637E-02	3.000E-03	5.714
TL-208	2.966E-01	4.535E-02	2.469E-02	2.571E-03	12.014
BI-212	5.704E-01	1.984E-01	1.926E-01	2.106E-02	2.962
PB-212	7.230E-01	8.120E-02	4.779E-02	3.652E-03	15.128
BI-214	8.232E-01	1.104E-01	4.551E-02	4.846E-03	18.088
PB-214	8.493E-01	8.799E-02	5.102E-02	3.912E-03	16.645
RA-223	3.079E-01	1.257E-01	1.227E-01	1.092E-02	2.509
AC-228	9.184E-01	1.328E-01	8.503E-02	7.389E-03	10.800
NP-237	5.268E-01	1.795E-01	1.906E-01	2.396E-02	2.763
AM-243	1.868E-01	5.351E-02	4.569E-02	9.107E-03	4.088

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.365E-02		1.438E-02	2.688E-02	1.563E-03	0.508
RH-101	-9.959E-04		1.551E-02	2.506E-02	3.913E-03	-0.040
SB-125	-4.734E-03		3.921E-02	6.602E-02	5.413E-03	-0.072
EU-155	4.253E-02		5.413E-02	9.214E-02	8.627E-03	0.462
PO-209	-1.439E+00		2.757E+00	4.581E+00	8.783E-01	-0.314
BI-211	-1.038E-01		4.012E-01	6.862E-01	6.717E-02	-0.151
PA-233	1.127E-03		2.651E-02	4.554E-02	3.668E-03	0.025
PA-234M	1.840E+00		1.676E+00	3.142E+00	2.453E-01	0.586
TH-234	1.361E+00	+	3.869E-01	5.226E-01	5.227E-02	2.605
U-235	1.728E-01		9.910E-02	1.695E-01	1.237E-02	1.020
NP-236	4.080E-02		3.433E-02	5.336E-02	5.305E-03	0.765
NP-239	-2.364E-02		9.231E-02	1.586E-01	2.141E-02	-0.149
AM-241	-6.937E-02		7.995E-02	1.328E-01	8.714E-03	-0.522
CM-243	-3.460E-03		4.882E-02	8.138E-02	8.798E-03	-0.043
AM-246	1.209E-02		5.033E-02	8.849E-02	1.132E-02	0.137
CF-249	1.674E-02		1.689E-02	2.985E-02	2.860E-03	0.561

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 12:01:11

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793713_GAMMA3_400MLSAN_17216.CNF

---- Sample Information ----

Sample ID	: OH207-7937-13		
Sample Title	: SB-CZ-SS-2222-ST		
Sample Quantity	: 5.23200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17216		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 20-NOV-2007 09:00:55
Decay time	: 55 09:00:55.56	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.98

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.20*	127	597	1.24	140.40	136	9	76.5		
2	74.87*	637	921	1.59	166.26	158	19	21.6	1.12E+00	AM-243
										PB-214
										PB-212
2	77.21*	874	675	1.21	171.46	158	19	13.2		PB-214
										PB-212
0	84.06*	87	591	1.07	186.63	184	7	97.0		
0	87.21	250	531	1.39	193.62	191	6	31.7		NP-237
										PB-214
										PB-212
0	185.88*	337	594	1.54	412.32	406	12	32.0		
0	209.08	221	452	1.52	463.74	458	11	39.6		AC-228
2	238.67*	1694	364	1.44	529.34	521	21	6.6	1.05E+00	PB-212
2	241.81	386	407	1.85	536.29	521	21	27.8		PB-214
0	269.99	181	475	1.73	598.75	594	16	55.9		RA-223
										AC-228
0	295.30*	564	328	1.38	654.86	648	13	15.8		PB-214
0	300.60	160	315	1.63	666.60	661	14	49.9		PB-212
0	338.43	337	279	1.31	750.45	745	12	22.6		AC-228
0	352.07*	952	369	1.60	780.68	774	17	11.4		PB-214
0	409.38	64	170	0.66	907.71	903	10	81.2		AC-228
0	463.36	115	169	1.17	1027.35	1019	13	50.3		AC-228
0	510.81*	240	152	1.56	1132.53	1126	16	29.4		TL-208
0	582.97*	572	141	1.64	1292.45	1283	16	12.8		TL-208
0	609.26*	748	105	1.78	1350.73	1343	15	9.6		BI-214
0	661.52	257	96	1.59	1466.55	1461	12	19.1		CS-137
0	727.54*	137	89	1.59	1612.88	1605	18	37.1		BI-212
0	786.11	60	56	1.74	1742.67	1738	11	54.3		BI-212
0	860.80	50	65	2.14	1908.21	1902	12	70.5		TL-208
0	911.34*	359	86	2.03	2020.22	2012	19	16.5		AC-228
0	934.44	39	41	1.32	2071.41	2064	14	78.1		BI-214
1	964.58	77	84	2.21	2138.21	2130	37	50.5	2.63E+00	AC-228
1	969.10	187	52	2.22	2148.24	2130	37	24.0		AC-228
0	1120.39*	175	36	1.84	2483.51	2473	22	23.9		BI-214
0	1379.30	30	42	0.58	3057.26	3046	19	109.2		BI-214
0	1460.73*	324	27	2.04	3237.72	3227	19	14.0		K-40
0	1764.20*	136	9	3.06	3910.16	3899	17	21.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	63.20	127	597	1.24	140.40	136	9	1.18E-02	76.5	3.33E+00	T
0	84.06	87	591	1.07	186.63	184	7	8.08E-03	97.0	3.55E+00	
0	185.88	337	594	1.54	412.32	406	12	3.12E-02	32.0	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.609E+00	3.962E-01	2.432E-01	1.431E-02	10.727
CS-137	1.382E-01	2.822E-02	2.877E-02	2.071E-03	4.803
TL-208	2.767E-01	4.177E-02	2.872E-02	2.286E-03	9.636
BI-212	5.722E-01	2.160E-01	1.946E-01	1.412E-02	2.940
PB-212	7.786E-01	7.780E-02	4.452E-02	3.328E-03	17.488
BI-214	6.889E-01	8.422E-02	4.911E-02	3.742E-03	14.028
PB-214	6.760E-01	9.393E-02	5.473E-02	4.354E-03	12.351
RA-223	2.861E-01	1.619E-01	1.334E-01	1.181E-02	2.145
AC-228	8.297E-01	1.487E-01	1.046E-01	7.355E-03	7.931
NP-237	2.720E-01	9.135E-02	1.633E-01	1.820E-02	1.666
AM-243	1.279E-01	3.697E-02	2.619E-02	5.037E-03	4.884

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.762E-03		1.778E-02	2.578E-02	1.367E-03	0.068
RH-101	9.536E-04		1.653E-02	2.772E-02	4.278E-03	0.034
SB-125	7.831E-04		4.109E-02	7.168E-02	5.926E-03	0.011
EU-155	4.289E-02		4.587E-02	8.058E-02	7.577E-03	0.532
PO-209	-5.464E-01		3.074E+00	5.397E+00	9.945E-01	-0.101
BI-211	-1.257E-01		4.582E-01	7.681E-01	5.531E-02	-0.164
PA-233	9.375E-03		2.987E-02	5.074E-02	4.140E-03	0.185
PA-234M	2.157E+00		1.872E+00	3.597E+00	2.456E-01	0.600
TH-234	5.267E-01		2.520E-01	4.245E-01	2.825E-02	1.241
U-235	1.084E-02		9.630E-02	1.640E-01	1.217E-02	0.066
NP-236	3.105E-02		2.670E-02	4.453E-02	4.249E-03	0.697
NP-239	4.669E-02		1.058E-01	1.807E-01	2.417E-02	0.258
AM-241	3.254E-02		3.068E-02	4.642E-02	2.937E-03	0.701
CM-243	-1.480E-02		4.124E-02	7.036E-02	7.582E-03	-0.210
AM-246	3.730E-02		5.141E-02	9.677E-02	1.222E-02	0.385
CF-249	3.123E-03		1.851E-02	3.247E-02	3.234E-03	0.096

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 15:03:03

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793714_GAMMA1_400MLSAN_17217.CNF

---- Sample Information ----

Sample ID	: OH207-7937-14		
Sample Title	: SB-CZ-SS-2223-ST		
Sample Quantity	: 4.15400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17217		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 20-NOV-2007 12:02:31
Decay time	: 55 12:02:31.12	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.60

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moad Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.88*	150	204	0.90	149.17	143	16	33.4	1.95E+00	AM-243
										PB-214
										PB-212
3	77.03*	225	270	1.10	153.47	143	16	28.5		PB-214
										PB-212
0	87.47	85	270	1.40	174.39	171	7	67.9		NP-237
										PB-214
										PB-212
3	92.75*	66	207	1.15	184.96	182	9	88.4	2.52E+00	
0	185.41*	89	297	1.67	370.51	364	12	83.9		
0	209.30	49	209	0.99	418.32	415	8	105.9		AC-228
0	238.65*	538	291	1.06	477.10	472	9	14.6		PB-212
0	241.70	92	178	1.43	483.21	481	7	53.2		PB-214
0	295.27*	120	115	1.32	590.47	586	8	36.5		PB-214
0	327.83	81	95	1.18	655.68	652	8	47.0		
0	338.42*	114	148	1.25	676.87	673	9	43.8		AC-228
0	352.00*	207	140	1.16	704.06	699	10	26.2		PB-214
0	510.86*	96	122	2.01	1022.14	1014	18	66.1		TL-208
0	583.36*	216	74	1.57	1167.29	1161	15	22.6		TL-208
0	609.17*	188	74	1.40	1218.96	1213	11	23.7		
0	661.29	116	58	0.96	1323.31	1318	11	31.4		CS-137
0	726.80*	65	42	1.60	1454.47	1449	11	46.7		BI-212
0	861.01	59	29	1.35	1723.14	1716	15	48.2		TL-208
0	911.24*	117	62	1.63	1823.70	1817	16	36.9		AC-228
0	968.82*	100	30	1.86	1938.98	1933	12	31.3		AC-228
0	1331.08	15	9	1.46	2664.13	2659	9	88.7		
0	1460.22*	49	21	2.82	2922.61	2915	19	54.1		K-40

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	92.75	66	207	1.15	184.96	182	9	6.15E-03	88.4	2.42E+00	T
0	185.41	89	297	1.67	370.51	364	12	8.23E-03	83.9	3.03E+00	
0	327.83	81	95	1.18	655.68	652	8	7.52E-03	47.0	2.11E+00	
0	609.17	188	74	1.40	1218.96	1213	11	1.74E-02	23.7	1.29E+00	T
0	1331.08	15	9	1.46	2664.13	2659	9	1.39E-03	88.7	7.56E-01	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.952E-01	2.156E-01	1.538E-01	1.050E-02	2.570
CS-137	6.801E-02	2.258E-02	2.227E-02	2.393E-03	3.054
TL-208	1.158E-01	2.862E-02	2.008E-02	2.015E-03	5.769
BI-212	2.929E-01	1.397E-01	1.506E-01	1.449E-02	1.944
PB-212	2.814E-01	4.638E-02	4.286E-02	3.308E-03	6.566
PB-214	1.669E-01	4.567E-02	3.992E-02	3.150E-03	4.182
AC-228	2.816E-01	1.050E-01	7.171E-02	3.963E-03	3.927
NP-237	1.876E-01	1.302E-01	1.738E-01	2.514E-02	1.079
AM-243	7.908E-02	3.122E-02	3.771E-02	7.911E-03	2.097

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	2.206E-03		1.086E-02	2.001E-02	1.221E-03	0.110
RH-101	-6.017E-03		1.210E-02	1.978E-02	3.068E-03	-0.304
SB-125	9.765E-03		2.987E-02	5.365E-02	4.400E-03	0.182
EU-155	1.910E-02		4.186E-02	7.336E-02	7.283E-03	0.260
PO-209	2.348E+00		2.160E+00	4.284E+00	7.668E-01	0.548
BI-211	1.344E-02		2.999E-01	5.464E-01	3.981E-02	0.025
BI-214	1.905E-01	+	4.911E-02	7.897E-02	8.044E-03	2.412
RA-223	1.011E-01		6.402E-02	1.201E-01	1.105E-02	0.842
PA-233	9.182E-03		2.070E-02	3.752E-02	3.151E-03	0.245
PA-234M	3.032E-02		1.382E+00	2.500E+00	1.437E-01	0.012
TH-234	3.058E-01	+	2.727E-01	4.476E-01	5.222E-02	0.683
U-235	5.360E-02		7.511E-02	1.305E-01	9.109E-03	0.411
NP-236	-9.244E-03		2.584E-02	4.098E-02	4.502E-03	-0.226
NP-239	7.569E-03		7.595E-02	1.266E-01	1.708E-02	0.060
AM-241	-2.291E-02		6.886E-02	1.193E-01	9.486E-03	-0.192
CM-243	4.021E-03		3.893E-02	6.718E-02	7.656E-03	0.060
AM-246	2.184E-03		3.321E-02	6.110E-02	7.520E-03	0.036
CF-249	9.190E-03		1.261E-02	2.326E-02	2.244E-03	0.395

BENCH SHEET

Method:	Gamma Spec (DOE 4.5.2.3)	Project Name:	Cabrera Services-Oahu, HI
Analysis Type:	Gamma (DOE 21 day ing	Project Location:	
Matrix:	Soil	Project Number:	FOAH2/L
Date Received:	9/27/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S793~~7~~3 7938			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7938-PB		9/27/2007 8:45:00 AM	
SCAQC	7938-LD1 OH207-7938-01	SB-CZ-SS-2210-SD	9/26/2007	
SCAQC	7938-LC1		9/27/2007 8:45:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7938-01	SB-CZ-SS-2210-SD	9/26/2007	
OH207	7938-02	SB-CZ-SS-2211-SD	9/26/2007	
OH207	7938-03	SB-CZ-SS-2212-SD	9/26/2007	
OH207	7938-04	SB-CZ-SS-2213-SD	9/26/2007	
OH207	7938-05	SB-CZ-SS-2214-SD	9/26/2007	
OH207	7938-06	SB-CZ-SS-2215-SD	9/26/2007	
OH207	7938-07	SB-CZ-SS-2216-SD	9/26/2007	
OH207	7938-08	SB-CZ-SS-2217-SD	9/26/2007	
OH207	7938-09	SB-CZ-SS-2218-SD	9/26/2007	
OH207	7938-10	SB-CZ-SS-2219-SD	9/26/2007	
OH207	7938-11	SB-CZ-SS-2220-SD	9/26/2007	
OH207	7938-12	SB-CZ-SS-2221-SD	9/26/2007	
OH207	7938-13	SB-CZ-SS-2222-SD	9/26/2007	
OH207	7938-14	SB-CZ-SS-2223-SD	9/26/2007	

Radiochemistry Reviewer 11/24/07 Date

QA Reviewer 11/27/2007 Date

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-20-07 0900 / G3 1K	180	OH207	7937	13	—	9/26/07	SB-CZ-SS-2222-ST	SOIL	523.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1202 / G1 1K	↓	↓	↓	14	—	↓	2223-ST	↓	415.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1203 / G2 1K	180	SCAQC	7938	PB1	—	9/27/07 0845	PREP BLK	LIQUID	400g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1604 / G2 1K	60			LC1	—	↓	CTRL SAMP S-142	SOIL	640g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1204 / G3 1K	180			LD1	—	9/26/07	DUP of 7938-01		565.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1507 / G1 1K		OH207		01	—		SB-CZ-SS-2210-SD		565.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1510 / G3 K				02	—		2211-SD		468.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1814 / G1 JD				03	—		2212-SD		544.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1818 / G2 JD				04	—		2213-SD		540.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-20-07 1823 / G3 JD				05	—		2214-SD		529.1 526.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

gamma1 = G1
gamma2 = G2

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SCA-Form 012 Rev. 1

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-20-07 2115 G1 JD	180	OH207	7938	06	—	9/26/07	SB-CZ-SS-2215-SD	SOIL	448.2 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ / 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ / 400 mL Sand ☐ _____ ☐
11-20-07 2126 G2 JD				07	—		2216-SD		509.2 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ / 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ / 400 mL Sand ☐ _____ ☐
11-20-07 2124 G3 JD				08	—		2217-SD		380.6 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ / 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ / 400 mL Sand ☐ _____ ☐
11-21-07 ~~0023~~ 2235 ~~11-21-07~~ G2 JD				09	—		2218-SD		394.3 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ / 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ / 400 mL Sand ☐ _____ ☐
11-21-07 ~~0826~~ 0841 G3 JD 1L				10	—		2219-SD		566.4 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ / 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ / 400 mL Sand ☐ _____ ☐
11-21-07 0842 G3 1L				11	—		2220-SD		571.5 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ / 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ / 400 mL Sand ☐ _____ ☐
11-21-07 1145 G2 1L				12	—		2221-SD		549.8 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ / 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ / 400 mL Sand ☐ _____ ☐
11-21-07 1146 G3 1L				13	—		2222-SD		527.8 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ / 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ / 400 mL Sand ☐ _____ ☐
11-21-07 1450 G2 1L				14	—		2223-SD		397.0 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ / 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ / 400 mL Sand ☐ _____ ☐
11-21-07 1506 G1 G2 G3 1L	50hrs	LNABLK	112107	—	—	11/21/07 1506	LONG BACKGROUND	BLK	1 BLKNA	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ / 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ / 400 mL Sand ☐ NO SPECIFIC GEOMETRY

umm1 = G1
umm2 = G2

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SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 15:03:57

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7938PB1_GAMMA2_400MLSA_17218.CNF

---- Sample Information ----

Sample ID	: SCAQC-7938-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17218		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 20-NOV-2007 12:03:35
Decay time	: 54 03:18:35.90	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.59

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	92.79*	72	226	1.23	185.00	180	12	94.6		
0	1762.91*	10	3	1.64	3518.91	3513	11113.4		0.00E+00	

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	92.79	72	226	1.23	185.00	180	12	6.63E-03	94.6	2.70E+00	T
0	1762.91	10	3	1.64	3518.91	3513	11	9.31E-04	****	5.84E-01	T

Flags: "T" = Tentatively associated

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	7.726E-02		1.336E-01	3.036E-01	1.954E-02	0.255
CO-60	2.508E-03		8.823E-03	1.765E-02	9.752E-04	0.142
RH-101	-1.245E-03		1.138E-02	1.863E-02	2.909E-03	-0.067
SB-125	-1.316E-02		2.836E-02	4.745E-02	3.891E-03	-0.277
CS-137	6.430E-03		1.022E-02	1.982E-02	2.255E-03	0.324
EU-155	-1.580E-03		3.231E-02	5.517E-02	5.165E-03	-0.029
TL-208	1.778E-03		1.120E-02	2.125E-02	2.213E-03	0.084
PO-209	9.919E-03		1.741E+00	3.222E+00	6.176E-01	0.003
BI-211	8.894E-02		2.498E-01	4.819E-01	4.717E-02	0.185
BI-212	7.037E-03		6.937E-02	1.293E-01	1.414E-02	0.054
PB-212	2.509E-02		1.925E-02	3.569E-02	2.727E-03	0.703
BI-214	1.978E-03		2.258E-02	4.269E-02	4.545E-03	0.046
PB-214	-1.126E-02		2.313E-02	3.864E-02	2.963E-03	-0.291
RA-223	-4.455E-03		5.437E-02	9.524E-02	8.473E-03	-0.047
AC-228	-1.391E-02		3.806E-02	6.773E-02	5.885E-03	-0.205
PA-233	-3.298E-03		1.926E-02	3.345E-02	2.694E-03	-0.099
PA-234M	-1.210E+00		1.244E+00	1.975E+00	1.542E-01	-0.613
TH-234	3.070E-01	+	2.920E-01	3.313E-01	3.314E-02	0.927
U-235	3.926E-02		6.231E-02	1.082E-01	7.898E-03	0.363
NP-236	5.316E-04		2.099E-02	3.226E-02	3.207E-03	0.016
NP-237	-5.820E-02		7.548E-02	1.209E-01	1.519E-02	-0.482
NP-239	3.041E-02		6.231E-02	1.133E-01	1.529E-02	0.268
AM-241	-1.984E-02		4.604E-02	7.870E-02	5.162E-03	-0.252
AM-243	-9.943E-03		1.657E-02	2.752E-02	5.485E-03	-0.361
CM-243	-2.988E-02		3.020E-02	4.827E-02	5.218E-03	-0.619
AM-246	7.420E-03		3.532E-02	6.602E-02	8.445E-03	0.112
CF-249	-2.236E-03		1.214E-02	2.090E-02	2.002E-03	-0.107

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 17:20:48

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7938LC1_GAMMA2_400MLSA_17224.CNF

---- Sample Information ----

Sample ID	: SCAQC-7938-LC1		
Sample Title	: CTRL SAMP S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17224		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 20-NOV-2007 16:20:15
Decay time	: 54 07:35:15.25	% dead time	: 0.3%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:09.51

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**}2 + a5*x^{**}3 + a6*x^{**}4 + a7*x^{**}5$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Tolar Date: 11/27/2007

Sample ID : SCAQC-7938-LC1 Acquisition date : 20-NOV-2007 16:20:15

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	59.41	27377	10460	1.05	118.54	113	12	2.0		AM-241
0	87.98*	10541	5743	1.10	175.42	169	12	3.5		
0	122.04	1671	3413	1.06	243.24	239	9	13.5		
0	136.42	301	2473	0.73	271.88	269	7	56.0		
0	238.56*	391	2155	1.19	475.30	472	7	40.7		
0	352.12*	144	1651	1.23	701.56	698	8	99.0		
0	609.13*	128	1033	1.07	1213.89	1210	10	95.7		
0	661.81	26610	1373	1.49	1318.95	1312	15	1.4		CS-137
0	1172.87	20290	828	1.82	2339.09	2329	19	1.6		CO-60
0	1331.87	18580	272	1.94	2656.81	2648	19	1.5		CO-60
0	1459.52*	58	49	1.66	2912.00	2904	15	59.9		K-40

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	87.98	10541	5743	1.10	175.42	169	12	2.93E+00	3.5	2.53E+00	T
0	122.04	1671	3413	1.06	243.24	239	9	4.64E-01	13.5	3.30E+00	
0	136.42	301	2473	0.73	271.88	269	7	8.36E-02	56.0	3.38E+00	
0	238.56	391	2155	1.19	475.30	472	7	1.08E-01	40.7	2.80E+00	T
0	352.12	144	1651	1.23	701.56	698	8	4.01E-02	99.0	2.07E+00	T
0	609.13	128	1033	1.07	1213.89	1210	10	3.55E-02	95.7	1.30E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	9.448E-01	5.695E-01	5.587E-01	3.596E-02	1.691
CO-60	3.068E+01	1.761E+00	9.723E-02	5.656E-03	315.491
CS-137	3.026E+01	3.467E+00	1.650E-01	1.877E-02	183.348
AM-241	7.930E+01	5.430E+00	9.863E-01	6.470E-02	80.399

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
RH-101	-4.367E-02		7.727E-02	1.220E-01	1.905E-02	-0.358
SB-125	1.076E-01		2.718E-01	4.513E-01	3.700E-02	0.238
EU-155	-4.898E-02		2.527E-01	4.156E-01	3.891E-02	-0.118
TL-208	1.022E-01		9.333E-02	1.625E-01	1.692E-02	0.629
PO-209	2.200E+01		2.576E+01	4.297E+01	8.239E+00	0.512
BI-211	-1.261E+00		3.149E+00	5.218E+00	5.108E-01	-0.242
BI-212	1.238E-01		7.307E-01	1.241E+00	1.357E-01	0.100
PB-212	3.777E-01	+	1.565E-01	2.343E-01	1.791E-02	1.612
BI-214	2.502E-01	+	2.410E-01	3.055E-01	3.253E-02	0.819
PB-214	2.171E-01	+	2.155E-01	3.008E-01	2.306E-02	0.722
RA-223	2.793E-01		4.161E-01	7.103E-01	6.319E-02	0.393
AC-228	7.247E-01		4.996E-01	8.454E-01	7.346E-02	0.857
PA-233	-7.234E-04		1.580E-01	2.655E-01	2.139E-02	-0.003
PA-234M	-1.504E+00		1.452E+01	2.390E+01	1.866E+00	-0.063
TH-234	3.325E-01		1.221E+00	1.826E+00	1.826E-01	0.182
U-235	4.455E-01		4.402E-01	7.249E-01	5.291E-02	0.615
NP-236	9.712E-02		1.463E-01	2.439E-01	2.425E-02	0.398
NP-237	2.086E+01		2.743E+00	1.630E+00	2.049E-01	12.793
NP-239	-3.603E-02		5.149E-01	8.777E-01	1.185E-01	-0.041
AM-243	-2.553E-02		1.397E-01	2.325E-01	4.634E-02	-0.110
CM-243	-5.740E-02		2.334E-01	3.837E-01	4.148E-02	-0.150
AM-246	-5.139E-02		4.393E-01	7.188E-01	9.194E-02	-0.071
CF-249	-8.564E-03		1.059E-01	1.756E-01	1.683E-02	-0.049

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 15:04:43

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7938LD1_GAMMA3_400MLSA_17219.CNF

---- Sample Information ----

Sample ID	: SCAQC-7938-LD1		
Sample Title	: DUP 7938-01		
Sample Quantity	: 5.65000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17219		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 20-NOV-2007 12:04:26
Decay time	: 55 12:04:26.17	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.07

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**2} + a5*x^{**3} + a6*x^{**4} + a7*x^{**5}$$

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.85663E+00 a3=8.12782E-01 a4=8.53513E-02
a5=-4.88423E-02 a6=-7.49502E-03 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Mead Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.14*	296	1180	1.44	140.27	135	14	51.8		TH-234
3	74.79*	799	1142	1.58	166.08	160	17	19.0	2.37E+00	AM-243
										PB-214
										PB-212
3	77.18*	1129	923	1.29	171.38	160	17	12.0		PB-214
										PB-212
1	87.25	484	846	1.47	193.70	180	34	24.3	2.10E+00	NP-237
										PB-214
										PB-212
1	89.95	317	801	1.47	199.70	180	34	36.9		
1	92.92*	417	751	1.48	206.28	180	34	29.9		TH-234
0	129.14	305	1199	1.59	286.56	278	18	54.4		AC-228
0	185.94*	325	644	1.47	412.47	408	11	33.2		
0	208.96	176	529	1.29	463.48	459	10	51.0		AC-228
3	238.70*	2191	323	1.42	529.41	521	21	5.3	4.17E-01	PB-212
3	241.60	522	363	1.85	535.84	521	21	21.7		PB-214
0	270.46	235	529	1.87	599.81	590	17	46.8		RA-223
										AC-228
0	277.78*	91	313	0.91	616.03	611	10	76.6		TL-208
0	295.34*	488	351	1.34	654.94	649	12	18.0		PB-214
0	299.90	135	252	1.28	665.05	661	8	44.0		PB-212
0	327.63	126	418	1.48	726.51	719	17	76.6		
0	338.44	415	256	1.33	750.49	745	11	17.9		AC-228
0	352.03*	852	364	1.39	780.60	774	16	12.3		PB-214
0	463.12	104	207	1.35	1026.83	1021	12	58.8		AC-228
0	510.79*	292	224	1.81	1132.48	1123	20	29.9		TL-208
0	583.23*	691	175	1.37	1293.04	1284	18	11.9		TL-208
0	609.27*	708	200	1.72	1350.76	1341	20	12.4		BI-214
0	661.36	172	180	1.88	1466.20	1461	16	37.4		CS-137
0	727.21*	145	116	1.89	1612.15	1605	14	35.8		BI-212
0	794.88	107	52	2.03	1762.11	1756	11	32.6		AC-228
0	860.44	89	72	1.78	1907.41	1901	12	43.7		TL-208
0	911.21*	416	106	1.99	2019.94	2012	17	15.2		AC-228
0	934.67	52	54	0.85	2071.93	2065	14	65.4		BI-214
1	964.36	97	66	2.21	2137.72	2128	28	42.0	1.29E+00	AC-228
1	969.03	277	58	2.16	2148.07	2128	28	16.8		AC-228
0	1120.34*	154	72	1.45	2483.40	2474	18	30.7		BI-214
1	1376.92	53	45	2.20	3052.00	3042	18	59.0	1.51E+01	BI-214
1	1378.73	23	21	2.20	3056.00	3042	18	81.4		
0	1460.87*	592	28	2.19	3238.03	3226	22	9.6		K-40
0	1589.21	71	16	2.04	3522.42	3514	20	35.9		AC-228
0	1729.53	38	4	1.26	3833.36	3825	16	39.9		BI-214
0	1764.61*	113	4	2.13	3911.09	3903	16	21.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	89.95	317	801	1.47	199.70	180	34	2.94E-02	36.9	3.55E+00	
0	185.94	325	644	1.47	412.47	408	11	3.01E-02	33.2	2.81E+00	
0	327.63	126	418	1.48	726.51	719	17	1.16E-02	76.6	1.90E+00	
1	1378.73	23	21	2.20	3056.00	3042	18	2.11E-03	81.4	5.82E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.407E+00	4.946E-01	2.343E-01	1.379E-02	18.808
CS-137	8.571E-02	3.266E-02	2.664E-02	1.918E-03	3.217
TL-208	3.096E-01	4.437E-02	2.709E-02	2.156E-03	11.430
BI-212	5.620E-01	2.056E-01	1.972E-01	1.431E-02	2.850
PB-212	9.329E-01	8.559E-02	4.162E-02	3.111E-03	22.412
BI-214	6.033E-01	8.806E-02	4.831E-02	3.681E-03	12.488
PB-214	5.606E-01	8.199E-02	4.910E-02	3.907E-03	11.417
RA-223	3.446E-01	1.642E-01	1.351E-01	1.196E-02	2.551
AC-228	8.893E-01	1.490E-01	9.839E-02	6.918E-03	9.038
TH-234	9.615E-01	3.000E-01	3.147E-01	2.817E-02	3.056
NP-237	4.865E-01	1.301E-01	1.367E-01	1.524E-02	3.558
AM-243	1.486E-01	4.015E-02	2.727E-02	5.244E-03	5.449

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	5.747E-03		1.527E-02	2.503E-02	1.327E-03	0.230
RH-101	-7.981E-03		1.616E-02	2.659E-02	4.103E-03	-0.300
SB-125	-1.837E-02		3.911E-02	6.653E-02	5.500E-03	-0.276
EU-155	8.897E-02		4.695E-02	8.293E-02	7.798E-03	1.073
PO-209	-2.361E+00		3.189E+00	5.308E+00	9.780E-01	-0.445
BI-211	2.222E-01		4.604E-01	8.097E-01	5.831E-02	0.274
PA-233	-1.090E-02		2.677E-02	4.409E-02	3.598E-03	-0.247
PA-234M	8.629E-01		1.657E+00	3.076E+00	2.101E-01	0.281
U-235	3.718E-02		9.669E-02	1.654E-01	1.228E-02	0.225
NP-236	3.876E-02		2.954E-02	4.371E-02	4.171E-03	0.887
NP-239	-5.004E-02		1.032E-01	1.709E-01	2.286E-02	-0.293
AM-241	5.085E-02		3.133E-02	4.797E-02	3.035E-03	1.060
CM-243	-9.555E-04		4.218E-02	7.249E-02	7.812E-03	-0.013
AM-246	4.301E-02		5.212E-02	9.764E-02	1.233E-02	0.440
CF-249	-6.302E-04		1.707E-02	2.970E-02	2.958E-03	-0.021

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 18:08:21

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793801_GAMMA1_400MLSAN_17220.CNF

---- Sample Information ----

Sample ID	: OH207-7938-01		
Sample Title	: SB-CZ-SS-2210-SD		
Sample Quantity	: 5.65000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17220		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 20-NOV-2007 15:07:56
Decay time	: 55 15:07:56.56	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.77

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.93*	394	634	1.02	149.27	145	13	22.6	7.21E-01	AM-243
										PB-214
										PB-212
3	77.14*	665	601	0.97	153.69	145	13	14.3		PB-214
										PB-212
5	87.37	303	544	1.12	174.19	164	27	28.1	5.39E+00	NP-237
										PB-214
										PB-212
5	89.78	293	595	1.30	179.00	164	27	31.8		
5	92.82*	439	630	1.55	185.09	164	27	24.5		
0	129.12	143	643	1.09	257.79	254	8	63.7		AC-228
0	185.96*	301	518	1.15	371.60	368	8	29.5		
0	209.32	265	566	1.11	418.38	414	9	34.8		AC-228
2	238.67*	2226	342	1.06	477.15	472	18	5.0	2.64E+00	PB-212
2	241.11	253	309	1.10	482.03	472	18	31.4		
2	242.10	264	296	1.11	484.01	472	18	28.8		PB-214
0	270.23	207	407	1.27	540.35	536	11	40.1		RA-223
										AC-228
0	277.30	93	319	1.06	554.50	551	8	69.8		TL-208
0	295.26*	648	321	1.15	590.45	586	11	13.3		PB-214
0	300.65	209	291	1.26	601.25	597	11	34.8		PB-212
0	327.57	143	319	0.96	655.15	649	11	51.3		
0	338.51*	455	433	1.36	677.06	672	13	21.3		AC-228
0	351.89*	937	371	1.23	703.84	697	13	10.8		PB-214
0	409.62	74	238	0.79	819.44	813	11	84.5		AC-228
0	462.68	155	137	1.37	925.68	920	10	32.5		AC-228
0	510.94*	268	175	1.73	1022.30	1017	12	26.1		TL-208
0	583.11*	773	141	1.56	1166.79	1161	13	9.7		TL-208
0	609.29*	721	174	1.35	1219.20	1212	14	10.9		BI-214
0	661.47	225	108	1.31	1323.66	1319	11	22.1		CS-137
0	727.27*	179	113	1.42	1455.41	1450	12	28.4		BI-212
0	769.41	103	207	5.15	1539.78	1531	21	72.0		BI-214
0	785.78	36	95	1.08	1572.55	1568	9	104.1		BI-212
0	794.22	46	137	1.16	1589.44	1583	13	108.3		AC-228
0	861.04	75	116	1.45	1723.21	1716	12	62.5		TL-208
0	911.05*	528	78	1.66	1823.34	1817	13	11.2		AC-228
0	934.32	30	57	0.95	1869.91	1864	10	102.6		BI-214
3	964.67	90	77	2.04	1930.66	1922	28	45.2	3.06E+00	AC-228
3	968.87*	318	62	1.73	1939.07	1922	28	14.7		AC-228
0	1120.27*	124	98	1.09	2242.14	2237	12	36.7		BI-214
0	1237.91	40	64	1.17	2477.63	2473	10	80.0		BI-214
0	1378.20	51	61	0.89	2758.44	2747	19	79.5		BI-214
0	1460.55*	739	17	1.70	2923.28	2916	16	7.8		K-40
0	1592.75	28	33	1.50	3187.86	3180	13	102.2		
0	1619.71	48	35	4.16	3241.83	3231	23	69.5		BI-212
0	1729.45	33	16	0.71	3461.47	3454	13	60.9		BI-214
0	1764.29*	174	10	2.11	3531.19	3521	20	18.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	89.78	293	595	1.30	179.00	164	27	2.72E-02	31.8	2.32E+00	
5	92.82	439	630	1.55	185.09	164	27	4.06E-02	24.5	2.43E+00	T
0	185.96	301	518	1.15	371.60	368	8	2.79E-02	29.5	3.03E+00	
2	241.11	253	309	1.10	482.03	472	18	2.34E-02	31.4	2.64E+00	
0	327.57	143	319	0.96	655.15	649	11	1.32E-02	51.3	2.11E+00	
0	1592.75	28	33	1.50	3187.86	3180	13	2.55E-03	****	6.63E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.342E+00	4.512E-01	1.754E-01	1.197E-02	24.757
CS-137	9.693E-02	2.385E-02	2.312E-02	2.485E-03	4.192
TL-208	3.042E-01	4.237E-02	2.034E-02	2.041E-03	14.955
BI-212	5.922E-01	1.775E-01	1.602E-01	1.541E-02	3.697
PB-212	8.565E-01	7.875E-02	3.601E-02	2.779E-03	23.783
BI-214	5.375E-01	8.008E-02	4.001E-02	4.076E-03	13.432
PB-214	5.545E-01	7.410E-02	4.131E-02	3.260E-03	13.423
RA-223	2.742E-01	1.127E-01	1.067E-01	9.822E-03	2.569
AC-228	9.321E-01	1.165E-01	7.107E-02	3.928E-03	13.115
NP-237	4.929E-01	1.557E-01	1.746E-01	2.525E-02	2.823
AM-243	1.532E-01	4.720E-02	4.333E-02	9.091E-03	3.536

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	6.646E-03		1.197E-02	1.859E-02	1.213E-03	0.358
RH-101	-4.871E-03		1.379E-02	2.242E-02	3.478E-03	-0.217
SB-125	1.069E-02		3.405E-02	5.923E-02	4.858E-03	0.180
EU-155	3.918E-02		4.873E-02	8.421E-02	8.361E-03	0.465
PO-209	-1.695E+00		2.491E+00	4.104E+00	7.344E-01	-0.413
BI-211	1.108E-01		3.430E-01	6.156E-01	4.485E-02	0.180
PA-233	-6.725E-03		2.301E-02	3.942E-02	3.310E-03	-0.171
PA-234M	9.623E-01		1.358E+00	2.518E+00	1.447E-01	0.382
TH-234	1.486E+00	+	4.032E-01	4.992E-01	5.824E-02	2.977
U-235	-8.229E-03		8.359E-02	1.388E-01	9.687E-03	-0.059
NP-236	3.915E-02		2.954E-02	4.924E-02	5.409E-03	0.795
NP-239	-6.650E-03		8.993E-02	1.462E-01	1.972E-02	-0.045
AM-241	4.968E-02		7.799E-02	1.378E-01	1.095E-02	0.361
CM-243	2.021E-02		4.351E-02	7.470E-02	8.513E-03	0.270
AM-246	-1.473E-02		3.951E-02	6.651E-02	8.186E-03	-0.221
CF-249	-7.133E-03		1.442E-02	2.417E-02	2.331E-03	-0.295

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 18:10:31

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793802_GAMMA3_400MLSAN_17222.CNF

---- Sample Information ----

Sample ID	: OH207-7938-02		
Sample Title	: SB-CZ-SS-2211-SD		
Sample Quantity	: 4.68800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17222		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 20-NOV-2007 15:10:09
Decay time	: 55 15:10:09.93	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.03

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T Z Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.58*	133	474	1.99	103.55	99	10	66.6		
0	63.32*	264	783	1.23	140.66	136	10	43.5		TH-234
2	74.86*	897	1065	1.59	166.24	158	19	16.7	2.53E+00	AM-243
										PB-214
										PB-212
2	77.20*	1131	729	1.21	171.44	158	19	11.1		PB-214
										PB-212
1	87.30	435	742	1.32	193.82	183	30	24.7	2.25E+00	NP-237
										PB-214
										PB-212
1	89.77	316	651	1.20	199.30	183	30	31.1		
1	92.93*	329	801	1.48	206.30	183	30	37.6		TH-234
0	128.35	228	744	0.96	284.81	279	12	49.6		AC-228
0	185.74*	301	605	1.07	412.02	407	11	34.8		
0	209.48	196	420	1.09	464.63	460	9	40.5		AC-228
4	238.72*	2046	363	1.47	529.44	523	19	5.8	9.64E-01	PB-212
4	241.62	408	362	1.88	535.87	523	19	23.4		PB-214
0	270.29	162	312	2.02	599.43	594	11	45.0		RA-223
										AC-228
0	295.39*	586	311	1.34	655.06	649	13	15.0		PB-214
0	300.14	104	277	1.25	665.58	662	10	62.8		PB-212
0	328.29	169	270	1.07	727.99	722	13	43.0		
0	338.19	370	356	1.32	749.92	742	16	25.1		AC-228
0	352.08*	961	311	1.62	780.71	772	18	10.8		PB-214
0	462.65	156	172	1.73	1025.79	1018	16	40.8		AC-228
0	510.71*	123	246	1.79	1132.31	1125	16	65.1		TL-208
0	583.18*	571	183	1.54	1292.93	1284	17	13.9		TL-208
0	609.24*	621	180	1.84	1350.68	1344	17	12.8		BI-214
0	727.76*	176	97	1.99	1613.37	1603	22	32.8		BI-212
0	795.02	68	89	1.61	1762.42	1756	14	64.2		AC-228
0	860.79	73	62	0.96	1908.19	1902	14	51.7		TL-208
0	911.07*	386	72	1.82	2019.62	2011	17	14.6		AC-228
3	964.41	59	54	2.68	2137.83	2130	25	68.5	1.89E+00	AC-228
3	968.98	229	52	1.85	2147.97	2130	25	17.9		AC-228
3	1120.37*	177	41	2.55	2483.47	2476	35	21.9	2.02E+00	BI-214
3	1129.84	45	22	2.79	2504.46	2476	35	55.9		
0	1377.98	46	27	2.31	3054.34	3048	14	56.7		BI-214
0	1461.04*	397	25	2.30	3238.41	3229	22	12.4		K-40
0	1592.33	47	73	6.20	3529.34	3511	24	99.9		
0	1620.91	21	18	2.02	3592.66	3583	14	94.4		BI-212
0	1630.60	32	7	1.44	3614.14	3607	14	49.1		
0	1764.77*	67	29	2.74	3911.43	3901	16	44.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.58	133	474	1.99	103.55	99	10	1.23E-02	66.6	2.77E+00	
1	89.77	316	651	1.20	199.30	183	30	2.93E-02	31.1	3.55E+00	
0	185.74	301	605	1.07	412.02	407	11	2.79E-02	34.8	2.82E+00	
0	328.29	169	270	1.07	727.99	722	13	1.57E-02	43.0	1.89E+00	
3	1129.84	45	22	2.79	2504.46	2476	35	4.17E-03	55.9	6.76E-01	
0	1592.33	47	73	6.20	3529.34	3511	24	4.36E-03	99.9	5.25E-01	
0	1630.60	32	7	1.44	3614.14	3607	14	3.01E-03	49.1	5.17E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.562E+00	4.876E-01	2.599E-01	1.529E-02	13.704
TL-208	3.085E-01	4.934E-02	3.089E-02	2.458E-03	9.987
BI-212	8.206E-01	2.753E-01	2.231E-01	1.619E-02	3.678
PB-212	1.050E+00	9.929E-02	4.872E-02	3.642E-03	21.544
BI-214	6.376E-01	9.491E-02	5.965E-02	4.545E-03	10.688
PB-214	7.616E-01	1.025E-01	5.734E-02	4.562E-03	13.282
RA-223	2.870E-01	1.318E-01	1.505E-01	1.332E-02	1.908
AC-228	9.935E-01	1.609E-01	1.143E-01	8.033E-03	8.696
TH-234	9.156E-01	3.539E-01	3.600E-01	3.223E-02	2.543
NP-237	5.269E-01	1.430E-01	1.564E-01	1.744E-02	3.368
AM-243	2.010E-01	5.117E-02	3.209E-02	6.171E-03	6.264

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-7.464E-03		1.800E-02	2.643E-02	1.402E-03	-0.282
RH-101	1.666E-03		1.868E-02	3.135E-02	4.839E-03	0.053
SB-125	2.673E-02		4.565E-02	8.169E-02	6.754E-03	0.327
CS-137	7.846E-03		2.044E-02	3.577E-02	2.576E-03	0.219
EU-155	7.007E-02		5.333E-02	9.401E-02	8.840E-03	0.745
PO-209	-2.720E-01		3.267E+00	5.793E+00	1.067E+00	-0.047
BI-211	-2.645E-01		5.640E-01	9.288E-01	6.689E-02	-0.285
PA-233	3.660E-03		3.297E-02	5.557E-02	4.535E-03	0.066
PA-234M	1.679E+00		2.133E+00	3.998E+00	2.730E-01	0.420
U-235	6.395E-02		1.129E-01	1.940E-01	1.440E-02	0.330
NP-236	3.294E-02		3.461E-02	5.078E-02	4.846E-03	0.649
NP-239	-1.477E-02		1.157E-01	1.944E-01	2.600E-02	-0.076
AM-241	2.752E-02		3.787E-02	5.627E-02	3.561E-03	0.489
CM-243	-1.016E-02		4.840E-02	8.287E-02	8.930E-03	-0.123
AM-246	-1.369E-03		5.762E-02	1.023E-01	1.292E-02	-0.013
CF-249	-3.643E-03		2.093E-02	3.618E-02	3.603E-03	-0.101

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 21:14:32

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793803_GAMMA1_400MLSAN_17225.CNF

---- Sample Information ----

Sample ID	: OH207-7938-03
Sample Title	: SB-CZ-SS-2212-SD
Sample Quantity	: 5.44000E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17225

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 20-NOV-2007 18:14:09
Decay time	: 55 18:14:09.17	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:03.01

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1

Nuclide Lib File	: SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File	: SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title	: SCHOFIELD BARRACKS
Use Variable Tol	: Yes
Variable Tol	: 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	75.00*	446	725	1.24	149.40	144	14	22.2	1.92E+00	AM-243
										PB-214
										PB-212
3	77.19*	720	563	1.03	153.81	144	14	13.1		PB-214
										PB-212
0	88.27	430	1185	3.81	175.99	171	11	32.5		PB-214
										PB-212
2	92.46*	170	499	1.16	184.38	182	10	46.6	3.65E+00	
2	93.34*	145	672	1.17	186.13	182	10	68.2		
0	129.40	158	803	2.13	258.35	254	9	66.7		AC-228
0	185.89*	355	862	1.16	371.46	367	10	33.2		
0	209.16	230	649	1.26	418.05	413	9	42.2		AC-228
1	238.66*	2226	418	1.10	477.13	471	22	5.3	1.73E+00	PB-212
1	241.13	225	370	1.12	482.07	471	22	37.6		
1	242.08	361	311	1.07	483.96	471	22	20.6		PB-214
1	269.68	84	279	1.32	539.24	536	10	69.3	4.82E+00	RA-223
1	270.68	125	375	1.27	541.24	536	10	57.9		AC-228
0	277.52	94	403	1.03	554.93	551	9	80.2		TL-208
0	295.17*	863	355	1.07	590.28	586	9	10.4		PB-214
0	300.09	113	368	1.23	600.12	596	9	63.9		PB-212
0	328.03	137	338	0.86	656.07	651	10	53.0		
0	338.40*	503	362	1.33	676.84	672	11	17.3		AC-228
0	351.88*	1431	418	1.28	703.83	697	14	8.1		PB-214
0	462.60	144	191	1.17	925.52	920	11	40.9		AC-228
0	510.48*	279	263	1.73	1021.38	1014	15	30.1		TL-208
0	583.14*	805	183	1.49	1166.85	1161	13	10.0		TL-208
0	609.16*	1085	254	1.36	1218.95	1212	15	8.9		BI-214
0	661.24	203	251	1.35	1323.21	1318	14	35.7		CS-137
0	727.64*	131	166	1.40	1456.14	1449	13	44.6		BI-212
0	768.35	93	107	1.65	1537.65	1533	9	45.9		BI-214
0	785.11	47	108	0.98	1571.20	1567	11	90.6		BI-212
0	794.96	90	101	1.75	1590.93	1586	11	48.4		AC-228
0	860.39	86	116	1.50	1721.91	1715	14	57.6		TL-208
0	911.01*	561	86	1.69	1823.25	1817	15	11.2		AC-228
0	933.56	67	77	1.52	1868.39	1862	14	60.7		BI-214
3	964.27	89	94	2.26	1929.86	1922	22	51.2	8.86E-01	AC-228
3	968.74*	330	53	1.75	1938.81	1922	22	13.8		AC-228
0	1119.77*	300	76	1.85	2241.15	2233	16	17.5		BI-214
0	1238.32	82	118	2.06	2478.46	2469	18	65.6		BI-214
0	1377.21	59	45	2.41	2756.46	2750	12	52.1		BI-214
0	1460.37*	825	48	1.88	2922.90	2913	19	8.1		K-40
0	1589.83	69	39	4.88	3182.02	3172	20	51.2		AC-228
0	1620.60	23	18	0.79	3243.61	3239	9	79.8		BI-212
0	1729.65	33	34	2.94	3461.85	3454	14	82.9		BI-214
0	1763.88*	198	17	2.37	3530.37	3521	16	17.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	92.46	170	499	1.16	184.38	182	10	1.57E-02	46.6	2.41E+00	T
2	93.34	145	672	1.17	186.13	182	10	1.34E-02	68.2	2.44E+00	
0	185.89	355	862	1.16	371.46	367	10	3.28E-02	33.2	3.03E+00	
1	241.13	225	370	1.12	482.07	471	22	2.08E-02	37.6	2.64E+00	
0	328.03	137	338	0.86	656.07	651	10	1.27E-02	53.0	2.11E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.034E+00	5.332E-01	1.724E-01	1.177E-02	29.200
CS-137	9.062E-02	3.383E-02	2.544E-02	2.734E-03	3.562
TL-208	3.292E-01	4.660E-02	2.399E-02	2.408E-03	13.721
BI-212	4.512E-01	2.060E-01	1.686E-01	1.622E-02	2.675
PB-212	8.898E-01	8.311E-02	3.855E-02	2.975E-03	23.083
BI-214	8.400E-01	1.136E-01	4.572E-02	4.657E-03	18.371
PB-214	8.796E-01	9.948E-02	4.328E-02	3.415E-03	20.323
RA-223	1.155E-01	8.070E-02	1.223E-01	1.125E-02	0.945
AC-228	1.028E+00	1.284E-01	8.370E-02	4.625E-03	12.278
AM-243	1.800E-01	5.499E-02	4.651E-02	9.758E-03	3.869

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	5.117E-03		1.262E-02	2.160E-02	1.410E-03	0.237
RH-101	3.853E-03		1.476E-02	2.448E-02	3.797E-03	0.157
SB-125	1.359E-02		3.881E-02	6.728E-02	5.518E-03	0.202
EU-155	3.452E-02		5.460E-02	9.370E-02	9.304E-03	0.368
PO-209	-3.027E+00		2.588E+00	4.020E+00	7.195E-01	-0.753
BI-211	-1.237E-02		3.717E-01	6.499E-01	4.735E-02	-0.019
PA-233	-2.510E-02		2.551E-02	4.230E-02	3.552E-03	-0.593
PA-234M	9.744E-01		1.572E+00	2.860E+00	1.644E-01	0.341
TH-234	5.976E-01	+	2.873E-01	5.408E-01	6.310E-02	1.105
U-235	9.279E-03		9.308E-02	1.552E-01	1.084E-02	0.060
NP-236	2.132E-02		3.533E-02	5.452E-02	5.989E-03	0.391
NP-237	2.671E-01		1.539E-01	2.394E-01	3.462E-02	1.116
NP-239	3.266E-02		9.734E-02	1.602E-01	2.162E-02	0.204
AM-241	1.645E-02		8.503E-02	1.482E-01	1.178E-02	0.111
CM-243	-2.126E-03		4.895E-02	8.269E-02	9.423E-03	-0.026
AM-246	2.598E-02		4.477E-02	8.120E-02	9.994E-03	0.320
CF-249	-9.186E-03		1.629E-02	2.718E-02	2.622E-03	-0.338

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 21:19:19

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793804_GAMMA2_400MLSAN_17226.CNF

---- Sample Information ----

Sample ID : OH207-7938-04
Sample Title : SB-CZ-SS-2213-SD
Sample Quantity : 5.40000E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17226

---- Sample Decay/Count Information ----

Collection Date : 26-SEP-2007 00:00:00 Acquisition date : 20-NOV-2007 18:18:59
Decay time : 55 18:18:59.78 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:01.84

---- Detector Parameters ----

Energy cal. time : 1-MAY-2007 11:12:10. Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA2 Counting geometry: 400 ml sand
Effic. cal. time : 1-MAY-2007 11:13:44. Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.68491E+00 a3=7.34327E-01 a4=7.12916E-02
a5=8.21331E-02 a6=-7.02143E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.79	594	878	1.19	149.17	142	17	18.7	2.41E+00	AM-243
										PB-214
										PB-212
2	77.07	794	758	0.94	153.70	142	17	13.1		PB-214
										PB-212
0	86.96*	247	997	1.00	173.40	171	7	44.3		NP-237
										PB-214
										PB-212
6	89.88	197	508	1.05	179.22	177	13	34.9	6.40E-01	
6	92.88*	413	1081	1.43	185.18	177	13	31.2		
0	129.39	131	909	0.96	257.88	254	8	81.8		AC-228
0	185.91*	467	808	1.25	370.43	366	9	24.3		
0	209.09	300	878	1.25	416.60	411	11	40.0		AC-228
3	238.78*	2520	552	1.11	475.75	471	17	5.0	8.00E-01	PB-212
3	241.76	618	607	1.63	481.69	471	17	19.4		PB-214
0	270.19	373	665	1.36	538.31	531	15	31.9		RA-223
										AC-228
1	277.19	84	309	1.39	552.25	549	10	68.5	5.72E+00	TL-208
1	277.94	75	387	1.39	553.75	549	10	95.4		
0	295.47*	851	465	1.22	588.68	584	10	11.8		PB-214
0	300.10	154	398	0.87	597.91	594	9	49.4		PB-212
0	328.46	166	362	1.52	654.41	650	10	45.5		
0	338.69*	502	438	1.19	674.78	670	12	19.1		AC-228
0	352.07*	1559	458	1.25	701.44	694	14	7.8		PB-214
0	409.83	70	305	1.17	816.55	811	11	99.0		AC-228
0	463.40	145	200	0.79	923.32	917	11	41.3		AC-228
0	511.15*	335	334	1.77	1018.52	1011	17	28.9		TL-208
0	583.25*	814	241	1.45	1162.28	1155	15	10.9		TL-208
0	609.49*	1105	202	1.47	1214.60	1209	14	8.2		BI-214
0	661.95	65	177	1.68	1319.22	1312	12	85.3		CS-137
0	727.89	166	161	1.76	1450.77	1442	14	36.0		BI-212
0	768.38	103	117	1.50	1531.54	1526	11	45.2		BI-214
0	785.76	59	79	1.70	1566.23	1562	9	60.2		BI-212
0	794.95	85	86	1.56	1584.56	1580	9	45.4		AC-228
0	860.53	105	78	1.23	1715.42	1711	11	37.4		TL-208
0	911.19*	580	85	1.47	1816.54	1809	16	11.1		AC-228
0	934.14	67	58	1.84	1862.36	1856	11	50.1		BI-214
1	964.60	104	75	1.93	1923.16	1918	23	36.8	2.68E+00	AC-228
1	968.89*	344	72	1.93	1931.74	1918	23	15.1		AC-228
0	1003.99	69	120	4.88	2001.81	1990	24	89.3		
0	1119.97*	205	85	1.75	2233.42	2226	17	25.2		BI-214
0	1237.69*	90	88	1.31	2468.60	2462	14	49.3		BI-214
0	1376.41*	69	46	2.01	2745.83	2738	14	49.8		BI-214
0	1407.53	44	46	1.39	2808.05	2801	14	71.9		BI-214
0	1459.79*	994	26	2.03	2912.53	2904	17	6.9		K-40
1	1727.69	38	14	2.33	3448.42	3439	18	57.2	9.92E-01	
1	1729.19	23	7	2.30	3451.42	3439	18	81.0		BI-214
0	1762.78*	202	18	1.91	3518.65	3509	17	17.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
6	89.88	197	508	1.05	179.22	177	13	1.83E-02	34.9	2.60E+00	
6	92.88	413	1081	1.43	185.18	177	13	3.82E-02	31.2	2.71E+00	T
0	185.91	467	808	1.25	370.43	366	9	4.32E-02	24.3	3.21E+00	
1	277.94	75	387	1.39	553.75	549	10	6.96E-03	95.4	2.51E+00	
0	328.46	166	362	1.52	654.41	650	10	1.54E-02	45.5	2.20E+00	
0	1003.99	69	120	4.88	2001.81	1990	24	6.37E-03	89.3	8.85E-01	
1	1727.69	38	14	2.33	3448.42	3439	18	3.56E-03	57.2	5.93E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	6.405E+00	6.033E-01	1.967E-01	1.266E-02	32.563
CS-137	2.928E-02	2.520E-02	2.910E-02	3.311E-03	1.006
TL-208	3.309E-01	4.998E-02	2.470E-02	2.572E-03	13.394
BI-212	5.769E-01	2.171E-01	1.913E-01	2.091E-02	3.016
PB-212	9.630E-01	8.819E-02	4.120E-02	3.148E-03	23.373
BI-214	8.542E-01	1.150E-01	4.452E-02	4.740E-03	19.189
PB-214	9.259E-01	1.011E-01	4.737E-02	3.632E-03	19.548
RA-223	4.902E-01	1.623E-01	1.240E-01	1.103E-02	3.953
AC-228	1.096E+00	1.547E-01	8.486E-02	7.374E-03	12.920
NP-237	3.733E-01	1.720E-01	2.115E-01	2.657E-02	1.766
AM-243	2.072E-01	5.660E-02	4.575E-02	9.119E-03	4.530

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-7.277E-03		1.432E-02	2.312E-02	1.345E-03	-0.315
RH-101	-1.168E-02		1.551E-02	2.431E-02	3.795E-03	-0.480
SB-125	1.369E-02		3.965E-02	6.801E-02	5.576E-03	0.201
EU-155	5.049E-02		5.470E-02	9.305E-02	8.712E-03	0.543
PO-209	1.613E+00		2.861E+00	5.115E+00	9.807E-01	0.315
BI-211	-1.165E-01		4.117E-01	7.005E-01	6.857E-02	-0.166
PA-233	-4.720E-03		2.633E-02	4.476E-02	3.605E-03	-0.105
PA-234M	2.202E+00		1.623E+00	3.075E+00	2.400E-01	0.716
TH-234	1.311E+00	+	4.289E-01	5.265E-01	5.266E-02	2.490
U-235	8.658E-02		9.989E-02	1.673E-01	1.221E-02	0.518
NP-236	2.110E-02		3.135E-02	5.322E-02	5.290E-03	0.396
NP-239	-2.777E-02		9.560E-02	1.638E-01	2.211E-02	-0.170
AM-241	-1.017E-02		8.001E-02	1.359E-01	8.914E-03	-0.075
CM-243	3.448E-02		4.956E-02	8.398E-02	9.079E-03	0.411
AM-246	7.579E-03		5.189E-02	8.993E-02	1.150E-02	0.084
CF-249	1.538E-03		1.626E-02	2.771E-02	2.655E-03	0.055

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 21:23:37

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793805_GAMMA3_400MLSAN_17227.CNF

---- Sample Information ----

Sample ID	: OH207-7938-05
Sample Title	: SB-CZ-SS-2214-SD
Sample Quantity	: 5.26900E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17227

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 20-NOV-2007 18:23:05
Decay time	: 55 18:23:05.34	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.08

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**}2 + a5*x^{**}3 + a6*x^{**}4 + a7*x^{**}5$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	74.89*	694	924	1.48	166.32	159	20	18.7	1.42E+00	AM-243
										PB-214
										PB-212
4	77.19*	1137	796	1.32	171.41	159	20	11.3		PB-214
										PB-212
3	87.23	462	1102	1.78	193.65	182	31	30.0	2.31E+00	NP-237
										PB-214
										PB-212
3	89.92	179	606	1.02	199.62	182	31	49.1		
3	92.75*	415	881	1.64	205.91	182	31	32.5		
0	128.87	123	723	1.44	285.95	282	10	83.6		AC-228
0	186.03*	372	699	1.63	412.67	407	13	32.0		
0	209.27	125	452	1.22	464.18	460	9	63.9		AC-228
3	238.68*	1715	343	1.41	529.36	521	26	6.4	1.02E+00	PB-212
3	241.74	530	442	2.04	536.14	521	26	24.2		PB-214
0	270.21	220	349	1.56	599.25	593	13	37.6		RA-223
										AC-228
0	295.23*	543	301	1.46	654.70	650	11	15.1		PB-214
0	300.07	126	229	1.12	665.44	661	9	47.2		PB-212
0	328.28	109	316	0.94	727.96	723	12	67.8		
0	338.41	350	264	1.52	750.41	744	12	21.4		AC-228
0	352.18*	1072	248	1.51	780.92	775	14	8.9		PB-214
0	462.90	113	115	2.07	1026.33	1022	9	39.1		AC-228
0	510.48*	159	213	1.76	1131.79	1124	16	48.6		TL-208
0	583.26*	574	143	1.70	1293.10	1286	15	12.6		TL-208
0	609.32*	732	205	1.60	1350.85	1341	20	12.2		BI-214
0	663.13	184	150	4.02	1470.11	1462	19	35.2		CS-137
0	726.99*	109	115	1.43	1611.66	1604	14	46.4		BI-212
0	796.04	76	124	1.84	1764.69	1754	22	78.3		AC-228
0	861.00	66	78	1.27	1908.66	1903	11	58.0		TL-208
0	911.27*	418	63	2.01	2020.07	2012	20	13.6		AC-228
1	964.69	80	61	2.21	2138.45	2127	35	47.4	2.11E+00	AC-228
1	968.95	206	48	2.22	2147.91	2127	35	21.9		AC-228
0	1120.60*	134	68	2.04	2483.97	2478	17	33.4		BI-214
0	1238.80	38	75	1.44	2745.91	2738	12	97.3		BI-214
0	1377.20	61	45	1.71	3052.62	3043	20	59.3		BI-214
0	1460.91*	471	40	2.36	3238.11	3229	18	11.4		K-40
1	1588.35	47	14	2.52	3520.51	3512	23	51.2	2.48E+00	AC-228
1	1591.73	56	10	2.29	3528.00	3512	23	39.4		
0	1620.67	25	23	1.16	3592.14	3582	16	95.5		BI-212
0	1630.50	36	5	2.30	3613.91	3604	18	43.0		
0	1729.86	33	3	0.80	3834.07	3826	13	41.5		BI-214
0	1764.40*	126	21	2.15	3910.62	3902	15	24.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.92	179	606	1.02	199.62	182	31	1.66E-02	49.1	3.55E+00	
3	92.75	415	881	1.64	205.91	182	31	3.84E-02	32.5	3.55E+00	T
0	186.03	372	699	1.63	412.67	407	13	3.44E-02	32.0	2.81E+00	
0	328.28	109	316	0.94	727.96	723	12	1.01E-02	67.8	1.89E+00	
1	1591.73	56	10	2.29	3528.00	3512	23	5.18E-03	39.4	5.25E-01	
0	1630.50	36	5	2.30	3613.91	3604	18	3.37E-03	43.0	5.17E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.764E+00	4.831E-01	2.480E-01	1.459E-02	15.173
CS-137	9.830E-02	3.537E-02	2.832E-02	2.039E-03	3.471
TL-208	2.758E-01	4.108E-02	2.719E-02	2.165E-03	10.140
BI-212	4.525E-01	2.126E-01	2.131E-01	1.547E-02	2.124
PB-212	7.831E-01	7.691E-02	4.330E-02	3.236E-03	18.088
BI-214	6.689E-01	9.625E-02	5.326E-02	4.058E-03	12.560
PB-214	7.561E-01	9.022E-02	5.126E-02	4.078E-03	14.751
RA-223	3.463E-01	1.337E-01	1.398E-01	1.238E-02	2.477
AC-228	9.576E-01	1.466E-01	9.764E-02	6.865E-03	9.808
NP-237	4.984E-01	1.593E-01	1.371E-01	1.528E-02	3.635
AM-243	1.383E-01	3.707E-02	2.753E-02	5.294E-03	5.025

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	7.443E-03		1.622E-02	2.923E-02	1.550E-03	0.255
RH-101	3.895E-04		1.611E-02	2.698E-02	4.165E-03	0.014
SB-125	2.496E-02		4.203E-02	7.508E-02	6.207E-03	0.332
EU-155	3.149E-02		4.822E-02	8.410E-02	7.909E-03	0.374
PO-209	-1.239E+00		3.077E+00	5.298E+00	9.761E-01	-0.234
BI-211	-3.997E-01		5.013E-01	8.047E-01	5.795E-02	-0.497
PA-233	-7.492E-03		2.970E-02	4.923E-02	4.018E-03	-0.152
PA-234M	2.820E+00		1.952E+00	3.785E+00	2.585E-01	0.745
TH-234	1.027E+00	+	3.458E-01	4.420E-01	2.941E-02	2.324
U-235	1.075E-01		1.016E-01	1.763E-01	1.309E-02	0.610
NP-236	3.040E-02		3.091E-02	4.538E-02	4.331E-03	0.670
NP-239	-2.539E-02		1.099E-01	1.837E-01	2.458E-02	-0.138
AM-241	-9.302E-02		3.244E-02	4.840E-02	3.063E-03	-1.922
CM-243	-7.097E-03		4.289E-02	7.353E-02	7.923E-03	-0.097
AM-246	1.962E-02		5.283E-02	9.661E-02	1.219E-02	0.203
CF-249	1.487E-02		1.895E-02	3.392E-02	3.378E-03	0.438

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 21-NOV-2007 00:16:24

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793806_GAMMA1_400MLSAN_17228.CNF

---- Sample Information ----

Sample ID	: OH207-7938-06		
Sample Title	: SB-CZ-SS-2215		
Sample Quantity	: 4.48200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17228		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 20-NOV-2007 21:15:58
Decay time	: 55 21:15:58.59	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.33

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA1__17089.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Thomas Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.32*	78	532	0.95	126.02	122	8	106.8		TH-234
2	74.93*	379	512	1.09	149.27	144	14	22.5	6.96E-01	AM-243
										PB-214
										PB-212
2	77.19*	632	412	0.99	153.81	144	14	13.2		PB-214
										PB-212
4	87.31	282	407	1.33	174.07	171	25	25.0	1.14E+00	NP-237
										PB-214
										PB-212
4	90.11	225	511	1.35	179.66	171	25	37.6		
4	92.85*	324	481	1.29	185.16	171	25	28.0		TH-234
0	128.78	156	472	0.77	257.11	253	9	52.7		AC-228
0	154.21	78	413	1.42	308.01	304	8	93.2		
0	185.93*	281	470	1.26	371.55	367	10	32.2		
0	209.53	165	481	1.18	418.79	414	10	52.4		AC-228
0	238.59*	1505	596	1.04	476.99	472	9	7.9		PB-212
0	241.73	265	323	2.67	483.26	481	7	26.6		PB-214
0	270.27	191	298	1.24	540.42	535	11	37.8		RA-223
										AC-228
0	277.08	100	297	2.55	554.05	549	11	69.9		TL-208
0	295.31*	387	293	1.12	590.56	585	11	20.0		PB-214
0	300.73	162	261	1.54	601.40	596	13	44.5		PB-212
0	328.37	135	196	1.73	656.75	652	10	42.5		
0	338.40*	351	306	1.07	676.84	671	12	22.9		AC-228
0	351.86*	687	191	1.39	703.78	699	9	10.7		PB-214
0	409.53	63	142	0.73	819.25	814	9	73.0		AC-228
0	463.09	108	148	1.09	926.50	920	11	47.9		AC-228
0	510.47*	116	215	1.01	1021.35	1015	12	60.1		TL-208
0	582.95*	628	109	1.28	1166.46	1159	14	10.8		TL-208
0	609.02*	568	135	1.50	1218.67	1211	14	12.2		BI-214
0	727.05*	116	103	1.44	1454.97	1449	14	41.7		BI-212
0	769.32	87	108	5.15	1539.60	1532	16	58.3		BI-214
0	795.51	107	64	1.99	1592.02	1585	15	39.3		AC-228
0	860.42	81	50	1.57	1721.97	1716	11	40.5		TL-208
0	911.03*	397	69	1.63	1823.28	1816	13	13.4		AC-228
1	964.38	100	24	1.87	1930.10	1922	29	30.0	1.86E+00	AC-228
1	968.76*	248	29	1.87	1938.86	1922	29	15.6		AC-228
0	1119.95*	143	53	1.93	2241.50	2233	19	30.6		BI-214
0	1401.39*	32	10	0.92	2804.86	2800	11	56.4		BI-214
0	1460.17*	348	14	2.15	2922.52	2914	15	12.0		K-40
0	1729.50	28	7	0.76	3461.56	3456	10	53.0		BI-214
0	1763.79*	141	0	2.45	3530.18	3522	19	17.4		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	90.11	225	511	1.35	179.66	171	25	2.08E-02	37.6	2.33E+00	
0	154.21	78	413	1.42	308.01	304	8	7.21E-03	93.2	3.17E+00	
0	185.93	281	470	1.26	371.55	367	10	2.60E-02	32.2	3.03E+00	
0	328.37	135	196	1.73	656.75	652	10	1.25E-02	42.5	2.10E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.577E+00	3.561E-01	1.805E-01	1.232E-02	14.278
TL-208	3.115E-01	4.585E-02	2.143E-02	2.150E-03	14.539
BI-212	4.846E-01	2.073E-01	1.639E-01	1.577E-02	2.957
PB-212	7.303E-01	8.050E-02	5.398E-02	4.165E-03	13.531
BI-214	5.339E-01	8.503E-02	4.840E-02	4.930E-03	11.030
PB-214	5.124E-01	6.811E-02	4.791E-02	3.780E-03	10.696
RA-223	3.190E-01	1.240E-01	1.188E-01	1.093E-02	2.685
AC-228	8.839E-01	1.278E-01	7.555E-02	4.175E-03	11.699
TH-234	1.382E+00	4.193E-01	4.348E-01	5.073E-02	3.178
NP-237	5.781E-01	1.669E-01	2.270E-01	3.283E-02	2.547
AM-243	1.856E-01	5.706E-02	4.842E-02	1.016E-02	3.833

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.378E-03		1.299E-02	2.293E-02	1.497E-03	0.191
RH-101	-5.108E-03		1.473E-02	2.407E-02	3.733E-03	-0.212
SB-125	3.551E-02		3.766E-02	6.818E-02	5.592E-03	0.521
CS-137	6.125E-03		1.480E-02	2.701E-02	2.902E-03	0.227
EU-155	8.396E-02		5.394E-02	9.538E-02	9.470E-03	0.880
PO-209	-9.814E-01		2.493E+00	4.257E+00	7.619E-01	-0.231
BI-211	3.694E-02		3.915E-01	6.967E-01	5.076E-02	0.053
PA-233	3.095E-03		2.452E-02	4.308E-02	3.617E-03	0.072
PA-234M	1.164E+00		1.468E+00	2.797E+00	1.608E-01	0.416
U-235	-7.152E-02		9.496E-02	1.541E-01	1.076E-02	-0.464
NP-236	3.916E-03		3.395E-02	5.182E-02	5.693E-03	0.076
NP-239	-2.419E-02		9.758E-02	1.579E-01	2.131E-02	-0.153
AM-241	-1.018E-02		9.953E-02	1.550E-01	1.232E-02	-0.066
CM-243	1.113E-02		4.889E-02	8.375E-02	9.544E-03	0.133
AM-246	-1.137E-02		4.457E-02	7.637E-02	9.399E-03	-0.149
CF-249	8.105E-03		1.585E-02	2.813E-02	2.714E-03	0.288

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 21-NOV-2007 00:20:56

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793807_GAMMA2_400MLSAN_17229.CNF

---- Sample Information ----

Sample ID	: OH207-7938-07		
Sample Title	: SB-CZ-SS-2216-SD		
Sample Quantity	: 5.09200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17229		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 20-NOV-2007 21:20:32
Decay time	: 55 21:20:32.88	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.13

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**}2 + a5*x^{**}3 + a6*x^{**}4 + a7*x^{**}5$$

where:
$x = \ln(a1/energy)$

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.24*	112	495	1.46	126.17	122	8	73.5		TH-234
2	74.87	253	491	0.93	149.32	145	20	30.3	2.04E+00	AM-243
										PB-214
										PB-212
2	77.08	550	435	1.03	153.73	145	20	14.9		PB-214
										PB-212
4	87.27*	193	518	1.11	174.02	170	20	40.7	1.56E+00	NP-237
										PB-214
										PB-212
4	89.98	150	613	1.48	179.40	170	20	62.8		
4	92.84*	282	543	1.49	185.11	170	20	34.9		TH-234
0	129.19	67	381	0.87	257.49	254	6	95.7		AC-228
0	186.03*	233	653	1.24	370.68	366	12	47.0		
0	209.28	137	497	1.33	416.98	413	11	65.5		AC-228
3	238.75*	1285	248	1.14	475.69	468	19	7.1	1.95E+00	PB-212
3	241.32	188	322	1.63	480.81	468	19	50.7		
3	242.15	134	286	1.53	482.45	468	19	54.4		PB-214
1	270.16	67	181	1.38	538.25	535	9	70.2	8.80E+00	RA-223
										AC-228
1	271.04	80	202	1.25	540.00	535	9	64.2		
0	295.38*	304	241	1.33	588.50	585	9	22.0		PB-214
0	300.84	64	247	0.96	599.37	594	10	95.7		PB-212
0	327.96	107	255	1.43	653.40	646	12	62.6		
0	338.59*	265	160	1.15	674.59	670	9	21.8		AC-228
0	352.21*	697	266	1.44	701.72	694	16	13.1		PB-214
0	409.61	52	117	1.15	816.12	813	9	79.4		AC-228
0	463.60	103	104	1.50	923.74	919	11	43.0		AC-228
0	511.23*	198	159	1.63	1018.67	1010	18	36.9		TL-208
0	583.38*	426	115	1.50	1162.55	1157	12	14.2		TL-208
0	609.56*	420	134	1.27	1214.75	1208	14	15.6		BI-214
0	728.10	154	65	1.92	1451.18	1445	17	28.7		BI-212
0	771.48	116	119	5.17	1537.73	1522	30	59.7		
0	795.64	55	62	1.11	1585.93	1580	13	67.4		AC-228
0	860.88	57	63	1.47	1716.13	1708	12	61.4		TL-208
0	911.08*	287	50	1.24	1816.33	1810	12	14.8		AC-228
1	964.66	78	55	1.93	1923.28	1916	30	42.9	1.66E+00	AC-228
1	968.88*	171	37	1.63	1931.70	1916	30	21.2		AC-228
0	1120.18*	127	18	1.24	2233.85	2228	13	23.5		BI-214
0	1376.64*	51	12	1.80	2746.30	2739	16	42.5		BI-214
0	1459.96*	164	35	2.40	2912.88	2903	20	24.8		K-40
0	1636.49	15	11	4.00	3265.94	3258	14	104.0		
0	1728.15	35	7	0.80	3449.34	3442	14	46.6		BI-214
0	1762.82*	86	6	2.09	3518.74	3511	14	26.5		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.98	150	613	1.48	179.40	170	20	1.39E-02	62.8	2.61E+00	
0	186.03	233	653	1.24	370.68	366	12	2.16E-02	47.0	3.21E+00	
3	241.32	188	322	1.63	480.81	468	19	1.74E-02	50.7	2.78E+00	
1	271.04	80	202	1.25	540.00	535	9	7.44E-03	64.2	2.56E+00	
0	327.96	107	255	1.43	653.40	646	12	9.93E-03	62.6	2.20E+00	
0	771.48	116	119	5.17	1537.73	1522	30	1.07E-02	59.7	1.08E+00	
0	1636.49	15	11	4.00	3265.94	3258	14	1.41E-03	****	6.19E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.121E+00	2.872E-01	1.737E-01	1.118E-02	6.453
TL-208	1.836E-01	3.229E-02	2.072E-02	2.158E-03	8.860
BI-212	5.696E-01	1.749E-01	1.394E-01	1.524E-02	4.086
PB-212	5.208E-01	5.417E-02	3.232E-02	2.470E-03	16.114
BI-214	3.439E-01	6.509E-02	3.703E-02	3.943E-03	9.287
PB-214	4.393E-01	6.658E-02	3.712E-02	2.846E-03	11.835
RA-223	9.349E-02	6.612E-02	1.044E-01	9.291E-03	0.895
AC-228	5.756E-01	9.866E-02	6.766E-02	5.880E-03	8.507
TH-234	9.486E-01	3.440E-01	3.560E-01	3.560E-02	2.665
NP-237	3.087E-01	1.315E-01	1.782E-01	2.239E-02	1.732
AM-243	9.355E-02	3.391E-02	3.936E-02	7.845E-03	2.377

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-3.086E-04		1.041E-02	1.632E-02	9.491E-04	-0.019
RH-101	9.030E-03		1.229E-02	2.049E-02	3.200E-03	0.441
SB-125	5.749E-03		3.162E-02	5.466E-02	4.481E-03	0.105
CS-137	8.208E-03		1.278E-02	2.352E-02	2.676E-03	0.349
EU-155	3.234E-02		4.461E-02	7.652E-02	7.165E-03	0.423
PO-209	2.359E-01		1.934E+00	3.497E+00	6.705E-01	0.067
BI-211	-2.960E-01		3.114E-01	5.007E-01	4.901E-02	-0.591
PA-233	8.374E-03		2.123E-02	3.738E-02	3.011E-03	0.224
PA-234M	4.416E-01		1.319E+00	2.411E+00	1.882E-01	0.183
U-235	9.665E-02		7.701E-02	1.325E-01	9.670E-03	0.730
NP-236	7.731E-03		2.593E-02	4.401E-02	4.375E-03	0.176
NP-239	-2.062E-02		7.798E-02	1.344E-01	1.814E-02	-0.153
AM-241	3.595E-02		7.109E-02	1.120E-01	7.346E-03	0.321
CM-243	9.912E-03		4.033E-02	6.825E-02	7.379E-03	0.145
AM-246	2.503E-02		3.925E-02	7.323E-02	9.366E-03	0.342
CF-249	5.805E-03		1.357E-02	2.379E-02	2.280E-03	0.244

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 21-NOV-2007 00:25:01

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793808_GAMMA3_400MLSAN_17230.CNF

---- Sample Information ----

Sample ID	: OH207-7938-08
Sample Title	: SB-CZ-SS-2217-SD
Sample Quantity	: 3.80600E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17230

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 20-NOV-2007 21:24:39
Decay time	: 55 21:24:39.27	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.00

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1

Nuclide Lib File	: SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File	: SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title	: SCHOFIELD BARRACKS
Use Variable Tol	: Yes
Variable Tol	: 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.19*	166	830	1.46	140.39	135	11	72.3		TH-234
1	74.88*	726	837	1.44	166.29	160	18	17.7	1.85E+00	AM-243
										PB-214
										PB-212
1	77.14*	1121	775	1.35	171.29	160	18	11.4		PB-214
										PB-212
0	87.32	280	866	1.03	193.87	188	9	39.8		NP-237
										PB-214
										PB-212
2	89.89	218	403	1.10	199.56	197	15	30.7	9.29E-01	
2	92.76*	399	840	1.63	205.92	197	15	32.1		TH-234
0	104.95	158	408	1.91	232.94	230	8	47.0		CM-243
										EU-155
0	128.68	136	641	1.33	285.55	281	10	71.4		AC-228
0	186.04*	325	646	1.76	412.69	405	14	36.0		
0	209.34	198	603	1.78	464.33	459	14	54.4		AC-228
2	238.67*	1776	359	1.38	529.34	524	19	6.3	1.78E+00	PB-212
2	241.50	359	447	1.85	535.61	524	19	33.4		PB-214
0	270.59	199	417	1.31	600.09	592	16	48.3		RA-223
										AC-228
0	295.33*	432	340	1.48	654.93	649	12	19.8		PB-214
0	300.46	144	255	1.61	666.29	661	12	47.7		PB-212
0	327.97	193	233	1.56	727.27	721	14	36.4		
0	338.59	473	326	1.41	750.80	744	16	19.4		AC-228
0	352.08*	855	275	1.39	780.72	774	15	11.0		PB-214
0	409.52	84	161	1.50	908.01	903	10	61.1		AC-228
0	462.76	141	136	1.32	1026.02	1019	13	38.1		AC-228
0	510.64*	227	243	2.10	1132.15	1124	22	39.8		TL-208
0	583.23*	591	97	1.62	1293.04	1286	14	11.1		TL-208
0	609.27*	601	158	1.64	1350.75	1344	17	12.6		BI-214
0	661.34	95	139	1.74	1466.14	1461	14	56.3		CS-137
0	727.23*	121	77	2.12	1612.19	1606	12	34.9		BI-212
0	794.92	71	69	2.48	1762.22	1754	14	55.5		AC-228
0	861.21	55	96	0.59	1909.11	1903	14	80.2		TL-208
0	911.21*	356	71	1.91	2019.92	2012	15	15.1		AC-228
1	964.28	72	54	2.21	2137.55	2128	27	52.4	7.74E-01	AC-228
1	968.88	212	54	2.15	2147.73	2128	27	20.2		AC-228
0	1120.66*	136	54	2.18	2484.11	2476	21	33.1		BI-214
0	1239.26	79	47	1.17	2746.94	2738	18	47.4		BI-214
0	1460.87*	523	14	2.04	3238.03	3228	19	9.6		K-40
0	1764.46*	105	15	1.71	3910.76	3901	20	27.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.89	218	403	1.10	199.56	197	15	2.01E-02	30.7	3.55E+00	
0	186.04	325	646	1.76	412.69	405	14	3.01E-02	36.0	2.81E+00	
0	327.97	193	233	1.56	727.27	721	14	1.79E-02	36.4	1.90E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.784E+00	6.526E-01	3.201E-01	1.884E-02	18.069
CS-137	6.999E-02	3.971E-02	4.019E-02	2.893E-03	1.742
EU-155	1.428E-01	6.848E-02	1.078E-01	1.014E-02	1.324
TL-208	3.928E-01	5.360E-02	3.560E-02	2.833E-03	11.033
BI-212	6.931E-01	2.473E-01	2.942E-01	2.136E-02	2.356
PB-212	1.123E+00	1.094E-01	6.009E-02	4.492E-03	18.681
BI-214	7.601E-01	1.122E-01	6.641E-02	5.060E-03	11.444
PB-214	8.344E-01	1.134E-01	6.846E-02	5.447E-03	12.188
RA-223	4.334E-01	2.130E-01	1.820E-01	1.611E-02	2.382
AC-228	1.131E+00	1.881E-01	1.255E-01	8.822E-03	9.016
TH-234	1.366E+00	4.555E-01	4.000E-01	3.581E-02	3.415
NP-237	4.181E-01	1.730E-01	2.129E-01	2.373E-02	1.964
AM-243	2.002E-01	5.234E-02	3.656E-02	7.031E-03	5.476
CM-243	1.290E-01	6.224E-02	9.283E-02	1.000E-02	1.389

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	5.945E-03		2.167E-02	3.595E-02	1.906E-03	0.165
RH-101	1.453E-02		2.189E-02	3.720E-02	5.741E-03	0.391
SB-125	6.819E-03		5.638E-02	9.884E-02	8.171E-03	0.069
PO-209	-1.231E-01		4.147E+00	7.371E+00	1.358E+00	-0.017
BI-211	-2.643E-01		6.566E-01	1.088E+00	7.837E-02	-0.243
PA-233	1.825E-02		4.001E-02	6.844E-02	5.585E-03	0.267
PA-234M	9.677E-01		2.567E+00	4.698E+00	3.208E-01	0.206
U-235	1.426E-01		1.320E-01	2.298E-01	1.706E-02	0.621
NP-236	2.436E-02		3.797E-02	5.825E-02	5.559E-03	0.418
NP-239	-7.263E-03		1.413E-01	2.381E-01	3.185E-02	-0.031
AM-241	5.841E-02		4.470E-02	6.795E-02	4.300E-03	0.860
AM-246	1.048E-01		7.291E-02	1.426E-01	1.799E-02	0.735
CF-249	1.174E-02		2.491E-02	4.425E-02	4.407E-03	0.265

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 21-NOV-2007 03:22:56

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793809_GAMMA2_400MLSAN_17232.CNF

---- Sample Information ----

Sample ID	: OH207-7938-09		
Sample Title	: SB-CZ-SS-2218-SD		
Sample Quantity	: 3.94300E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17232		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 21-NOV-2007 00:22:35
Decay time	: 56 00:22:35.76	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.18

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.79	356	544	1.00	149.17	145	13	22.8	2.00E+00	AM-243
										PB-214
										PB-212
2	77.10	645	464	1.08	153.76	145	13	13.4		PB-214
										PB-212
4	87.25*	258	466	1.14	173.97	162	29	30.4	1.46E+00	NP-237
										PB-214
										PB-212
4	89.88	173	378	1.01	179.20	162	29	39.3		
4	92.77*	402	463	1.41	184.97	162	29	22.7		
0	128.96	119	544	1.37	257.02	253	9	73.0		AC-228
2	185.80*	206	357	1.40	370.21	364	14	37.8	5.21E+00	
0	209.23	172	411	0.85	416.89	412	9	45.1		AC-228
3	238.73*	1466	257	1.16	475.65	469	19	6.4	1.07E+00	PB-212
3	241.21	172	257	1.35	480.57	469	19	44.1		
3	242.14	170	222	1.16	482.43	469	19	36.8		PB-214
0	269.87	158	367	1.69	537.67	532	13	52.2		RA-223
										AC-228
0	277.50	132	290	1.10	552.88	548	11	53.0		TL-208
0	295.33*	352	228	1.19	588.40	584	9	19.1		PB-214
0	300.44	95	260	1.22	598.58	594	10	66.8		PB-212
0	328.21	78	178	1.46	653.91	650	7	61.1		
0	338.59*	263	192	1.33	674.59	670	8	22.5		AC-228
0	352.06*	656	243	1.26	701.43	695	13	12.7		PB-214
0	463.05	102	181	1.54	922.64	915	14	59.2		AC-228
0	583.37*	437	108	1.30	1162.52	1156	12	13.7		TL-208
0	609.44*	480	94	1.51	1214.51	1207	15	13.0		BI-214
0	727.70	150	92	1.62	1450.38	1444	15	32.8		BI-212
0	795.18	83	64	1.88	1585.02	1577	15	47.1		AC-228
0	861.20	69	64	1.23	1716.77	1710	14	55.3		TL-208
0	911.24*	316	40	1.36	1816.64	1810	15	14.6		AC-228
1	964.84	55	36	1.93	1923.65	1914	36	57.7	1.00E+00	AC-228
1	968.90*	185	40	1.65	1931.75	1914	36	19.8		AC-228
0	1003.16	73	27	6.32	2000.15	1990	24	45.6		
0	1119.92*	106	58	1.58	2233.32	2224	18	39.8		BI-214
0	1238.15*	45	21	1.80	2469.52	2463	12	51.9		BI-214
0	1378.38*	26	24	1.54	2749.79	2743	15	99.2		BI-214
0	1459.64*	292	36	1.71	2912.24	2903	18	15.8		K-40
0	1588.31*	72	5	7.06	3169.56	3158	22	29.3		AC-228
0	1762.38*	90	0	2.49	3517.85	3509	17	22.5		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.88	173	378	1.01	179.20	162	29	1.60E-02	39.3	2.60E+00	
4	92.77	402	463	1.41	184.97	162	29	3.72E-02	22.7	2.70E+00	T
2	185.80	206	357	1.40	370.21	364	14	1.91E-02	37.8	3.21E+00	
3	241.21	172	257	1.35	480.57	469	19	1.59E-02	44.1	2.78E+00	
0	328.21	78	178	1.46	653.91	650	7	7.22E-03	61.1	2.20E+00	
0	1003.16	73	27	6.32	2000.15	1990	24	6.79E-03	45.6	8.86E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.575E+00	4.387E-01	2.694E-01	1.734E-02	9.558
TL-208	2.433E-01	4.190E-02	2.578E-02	2.685E-03	9.437
BI-212	7.161E-01	2.477E-01	1.870E-01	2.044E-02	3.830
PB-212	7.673E-01	7.672E-02	4.059E-02	3.101E-03	18.905
BI-214	5.085E-01	8.537E-02	4.831E-02	5.144E-03	10.525
PB-214	5.334E-01	7.912E-02	5.095E-02	3.907E-03	10.469
RA-223	2.852E-01	1.511E-01	1.285E-01	1.144E-02	2.219
AC-228	8.178E-01	1.391E-01	8.519E-02	7.402E-03	9.600
NP-237	5.323E-01	1.749E-01	1.997E-01	2.509E-02	2.666
AM-243	1.700E-01	5.149E-02	5.092E-02	1.015E-02	3.338

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-2.757E-03		1.316E-02	2.224E-02	1.294E-03	-0.124
RH-101	-3.027E-03		1.564E-02	2.527E-02	3.945E-03	-0.120
SB-125	-1.650E-02		4.087E-02	6.809E-02	5.583E-03	-0.242
CS-137	1.982E-02		1.705E-02	3.206E-02	3.647E-03	0.618
EU-155	5.119E-02		5.734E-02	9.883E-02	9.254E-03	0.518
PO-209	-1.100E+00		2.905E+00	4.932E+00	9.455E-01	-0.223
BI-211	-2.042E-01		4.472E-01	7.561E-01	7.401E-02	-0.270
PA-233	2.816E-03		2.756E-02	4.786E-02	3.855E-03	0.059
PA-234M	1.385E+00		1.713E+00	3.255E+00	2.541E-01	0.426
TH-234	1.749E+00	+	4.342E-01	6.023E-01	6.024E-02	2.904
U-235	1.246E-01		9.849E-02	1.696E-01	1.238E-02	0.735
NP-236	7.295E-03		3.379E-02	5.465E-02	5.433E-03	0.133
NP-239	7.453E-02		9.869E-02	1.757E-01	2.372E-02	0.424
AM-241	-3.788E-03		9.235E-02	1.578E-01	1.035E-02	-0.024
CM-243	1.178E-02		5.225E-02	8.835E-02	9.552E-03	0.133
AM-246	9.699E-03		5.204E-02	9.288E-02	1.188E-02	0.104
CF-249	1.419E-02		1.874E-02	3.319E-02	3.180E-03	0.427

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 21-NOV-2007 11:41:54

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793810_GAMMA2_400MLSAN_17235.CNF

---- Sample Information ----

Sample ID	: OH207-7938-10		
Sample Title	: SB-CZ-SS-2219-SD		
Sample Quantity	: 5.66400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17235		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 21-NOV-2007 08:41:22
Decay time	: 56 08:41:22.30	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.02

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.76	624	1027	1.19	149.11	142	24	19.3	3.07E+00	AM-243
										PB-214
										PB-212
2	77.03	889	890	0.94	153.63	142	24	12.6		PB-214
										PB-212
1	83.35*	90	386	0.90	166.20	165	6	63.8	4.00E+00	
1	84.25*	114	665	0.90	168.00	165	6	72.7		
0	86.89*	351	1106	1.33	173.26	171	7	33.2		NP-237
										PB-214
										PB-212
3	89.89	220	589	0.98	179.23	177	13	33.6	1.64E+00	
3	92.89*	436	1161	1.26	185.20	177	13	29.4		
0	129.15	252	996	1.11	257.40	254	9	46.8		AC-228
0	185.96*	532	1168	1.34	370.53	365	11	26.7		
0	209.57	369	819	1.14	417.56	413	10	30.9		AC-228
2	238.79*	2747	666	1.09	475.76	471	17	4.9	4.03E+00	PB-212
2	241.16	299	577	1.36	480.49	471	17	44.3		
2	242.12	531	540	1.33	482.40	471	17	19.8		PB-214
0	270.37	262	567	1.49	538.68	534	10	36.1		RA-223
										AC-228
3	277.30	92	502	1.43	552.49	548	11	90.8	7.15E+00	TL-208
3	278.06	112	437	1.26	554.00	548	11	68.8		
0	295.44*	869	512	1.13	588.61	584	10	12.0		PB-214
0	300.17	161	555	1.38	598.04	594	11	58.8		PB-212
0	328.14	172	432	1.25	653.77	648	10	47.9		
0	338.53*	579	456	1.12	674.47	669	11	16.7		AC-228
0	352.12*	1583	459	1.24	701.55	696	12	7.4		PB-214
0	408.99	160	283	1.03	814.88	810	11	43.7		AC-228
0	463.19	226	291	1.19	922.91	916	14	34.7		AC-228
0	511.04*	341	411	1.76	1018.31	1010	16	30.2		TL-208
0	583.42*	929	237	1.40	1162.63	1157	12	9.4		TL-208
0	609.54*	1248	285	1.46	1214.71	1207	16	8.4		BI-214
0	727.45	225	147	1.55	1449.88	1444	12	25.3		BI-212
0	768.24	135	130	1.68	1531.28	1526	11	36.9		BI-214
0	785.71	41	119	1.04	1566.13	1563	9	99.8		BI-212
0	794.98	136	134	2.20	1584.61	1578	14	39.8		AC-228
0	860.58	160	98	1.35	1715.53	1709	15	31.3		TL-208
0	911.16*	631	165	1.64	1816.49	1809	15	12.0		AC-228
0	934.33	84	93	2.69	1862.74	1855	12	50.8		BI-214
1	964.97	121	97	1.93	1923.90	1916	23	38.7	4.46E-01	AC-228
1	968.86*	366	83	1.75	1931.68	1916	23	14.3		AC-228
0	1119.98*	259	110	1.51	2233.44	2228	13	20.9		BI-214
0	1155.42	57	74	1.50	2304.24	2300	11	64.7		BI-214
0	1237.73*	95	84	1.85	2468.69	2461	13	45.2		BI-214
0	1376.99*	78	40	1.98	2747.00	2741	13	40.6		BI-214
0	1408.25	44	73	0.96	2809.50	2802	19	96.4		BI-214
0	1459.91*	1371	65	1.97	2912.77	2904	20	6.2		K-40
0	1541.35	44	49	8.93	3075.63	3056	39	108.3		
0	1629.60	55	18	1.65	3252.16	3243	18	45.1		
0	1728.44	59	18	1.49	3449.93	3443	15	43.1		BI-214
0	1762.85*	207	44	1.96	3518.79	3511	19	20.8		BI-214

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	1844.65	53	8	1.19	3682.52	3676	15	35.6		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	83.35	90	386	0.90	166.20	165	6	8.32E-03	63.8	2.35E+00	
1	84.25	114	665	0.90	168.00	165	6	1.06E-02	72.7	2.39E+00	
3	89.89	220	589	0.98	179.23	177	13	2.03E-02	33.6	2.61E+00	
3	92.89	436	1161	1.26	185.20	177	13	4.04E-02	29.4	2.71E+00	T
0	185.96	532	1168	1.34	370.53	365	11	4.92E-02	26.7	3.21E+00	
2	241.16	299	577	1.36	480.49	471	17	2.77E-02	44.3	2.78E+00	
3	278.06	112	437	1.26	554.00	548	11	1.04E-02	68.8	2.51E+00	
0	328.14	172	432	1.25	653.77	648	10	1.59E-02	47.9	2.20E+00	
0	1541.35	44	49	8.93	3075.63	3056	39	4.08E-03	****	6.48E-01	
0	1629.60	55	18	1.65	3252.16	3243	18	5.09E-03	45.1	6.21E-01	
0	1844.65	53	8	1.19	3682.52	3676	15	4.91E-03	35.6	5.63E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	8.421E+00	7.545E-01	2.012E-01	1.295E-02	41.846
TL-208	3.602E-01	5.063E-02	2.644E-02	2.753E-03	13.621
BI-212	7.482E-01	2.061E-01	1.926E-01	2.106E-02	3.884
PB-212	1.001E+00	9.082E-02	4.182E-02	3.196E-03	23.928
BI-214	9.198E-01	1.246E-01	4.589E-02	4.886E-03	20.045
PB-214	8.963E-01	9.572E-02	4.587E-02	3.517E-03	19.542
RA-223	3.287E-01	1.223E-01	1.271E-01	1.131E-02	2.586
AC-228	1.136E+00	1.686E-01	9.722E-02	8.448E-03	11.688
NP-237	5.048E-01	1.794E-01	2.014E-01	2.531E-02	2.506
AM-243	2.076E-01	5.755E-02	4.673E-02	9.314E-03	4.443

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-6.638E-04		1.496E-02	2.438E-02	1.418E-03	-0.027
RH-101	-2.655E-03		1.609E-02	2.583E-02	4.033E-03	-0.103
SB-125	3.675E-02		3.917E-02	6.864E-02	5.627E-03	0.535
CS-137	8.152E-03		1.542E-02	2.756E-02	3.135E-03	0.296
EU-155	2.202E-02		5.551E-02	9.323E-02	8.729E-03	0.236
PO-209	6.576E-01		2.824E+00	4.950E+00	9.491E-01	0.133
BI-211	-4.212E-01		4.205E-01	6.781E-01	6.638E-02	-0.621
PA-233	3.221E-03		2.639E-02	4.530E-02	3.649E-03	0.071
PA-234M	6.697E-01		1.755E+00	3.092E+00	2.414E-01	0.217
TH-234	1.320E+00	+	4.094E-01	5.380E-01	5.382E-02	2.453
U-235	-9.984E-02		1.011E-01	1.611E-01	1.176E-02	-0.620
NP-236	1.787E-02		3.197E-02	5.401E-02	5.369E-03	0.331
NP-239	3.703E-02		9.517E-02	1.658E-01	2.237E-02	0.223
AM-241	1.873E-02		7.918E-02	1.356E-01	8.896E-03	0.138
CM-243	4.791E-02		5.048E-02	8.565E-02	9.259E-03	0.559
AM-246	-3.055E-03		5.158E-02	8.778E-02	1.123E-02	-0.035
CF-249	1.045E-02		1.721E-02	2.977E-02	2.852E-03	0.351

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 21-NOV-2007 11:42:39

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793811_GAMMA3_400MLSAN_17236.CNF

---- Sample Information ----

Sample ID	: OH207-7938-11		
Sample Title	: SB-CZ-SS-2220-SD		
Sample Quantity	: 5.71500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17236		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 21-NOV-2007 08:42:24
Decay time	: 56 08:42:24.41	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.38

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.36*	232	1073	1.24	140.75	136	10	56.3		TH-234
2	74.89*	1111	1317	1.56	166.30	158	19	14.1	2.05E+00	AM-243
										PB-214
										PB-212
2	77.19*	1749	1134	1.39	171.41	158	19	8.8		PB-214
										PB-212
4	87.16	634	1084	1.40	193.51	183	30	20.4	2.04E+00	NP-237
										PB-214
										PB-212
4	89.86	388	1164	1.54	199.50	183	30	36.0		
4	92.95*	731	1438	1.97	206.34	183	30	24.1		TH-234
0	185.89*	508	1103	1.48	412.35	407	14	29.6		
0	209.76	316	734	1.63	465.25	460	11	35.4		AC-228
3	238.70*	2794	559	1.34	529.40	523	19	4.9	8.05E-01	PB-212
3	241.68	700	512	1.91	536.00	523	19	17.0		PB-214
0	270.47	258	493	1.66	599.83	595	11	35.8		RA-223
										AC-228
0	295.33*	843	413	1.44	654.93	648	13	12.2		PB-214
0	300.15	223	274	1.51	665.62	662	8	29.0		PB-212
0	327.86	190	269	1.47	727.03	723	9	34.4		
0	338.38	619	459	1.63	750.35	744	13	16.4		AC-228
0	352.03*	1416	478	1.57	780.60	774	17	8.9		PB-214
0	409.38	130	179	1.15	907.71	902	10	42.3		AC-228
0	463.08	206	261	1.42	1026.73	1021	14	36.2		AC-228
0	510.45*	305	312	2.06	1131.73	1123	17	30.9		TL-208
0	583.16*	901	263	1.60	1292.89	1286	15	10.4		TL-208
0	609.26*	976	199	1.60	1350.72	1344	15	9.1		BI-214
0	727.39*	220	199	1.49	1612.53	1604	17	32.5		BI-212
0	768.31	101	132	1.45	1703.23	1698	11	48.3		BI-214
0	772.30	55	75	1.95	1712.08	1708	8	62.4		
0	795.35	91	167	1.52	1763.16	1755	15	65.8		AC-228
0	861.09	92	163	1.78	1908.86	1900	18	69.2		TL-208
0	911.47*	639	111	2.05	2020.51	2013	20	11.7		AC-228
3	964.55	130	68	2.30	2138.15	2130	28	33.6	1.12E+00	AC-228
3	969.02	410	59	2.03	2148.05	2130	28	12.7		AC-228
0	1120.47*	215	142	2.02	2483.68	2475	21	31.4		BI-214
0	1239.09	76	105	1.61	2746.55	2737	17	66.8		BI-214
0	1460.83*	996	54	1.92	3237.94	3226	21	7.4		K-40
0	1764.97*	148	20	1.95	3911.88	3901	18	21.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.86	388	1164	1.54	199.50	183	30	3.59E-02	36.0	3.55E+00	
0	185.89	508	1103	1.48	412.35	407	14	4.71E-02	29.6	2.82E+00	
0	327.86	190	269	1.47	727.03	723	9	1.76E-02	34.4	1.90E+00	
0	772.30	55	75	1.95	1712.08	1708	8	5.05E-03	62.4	9.21E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	7.332E+00	6.926E-01	2.099E-01	1.235E-02	34.924
TL-208	3.989E-01	5.231E-02	3.083E-02	2.454E-03	12.937
BI-212	8.419E-01	2.806E-01	2.391E-01	1.736E-02	3.521
PB-212	1.176E+00	1.054E-01	4.906E-02	3.667E-03	23.970
BI-214	8.224E-01	9.734E-02	5.290E-02	4.031E-03	15.546
PB-214	9.210E-01	1.097E-01	5.708E-02	4.541E-03	16.135
RA-223	3.737E-01	1.379E-01	1.530E-01	1.354E-02	2.443
AC-228	1.350E+00	1.845E-01	1.107E-01	7.785E-03	12.193
TH-234	1.666E+00	4.282E-01	3.515E-01	3.147E-02	4.740
NP-237	6.309E-01	1.466E-01	1.528E-01	1.703E-02	4.130
AM-243	2.042E-01	4.867E-02	2.927E-02	5.629E-03	6.977

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.397E-03		1.748E-02	3.037E-02	1.848E-03	-0.046
RH-101	8.527E-03		1.833E-02	3.092E-02	4.773E-03	0.276
SB-125	4.238E-02		4.445E-02	7.969E-02	6.588E-03	0.532
CS-137	2.277E-02		2.059E-02	3.665E-02	2.638E-03	0.621
EU-155	1.000E-02		5.195E-02	8.943E-02	8.410E-03	0.112
PO-209	2.979E+00		3.208E+00	5.914E+00	1.090E+00	0.504
BI-211	-4.829E-01		5.298E-01	8.441E-01	6.079E-02	-0.572
PA-233	-1.774E-02		3.165E-02	5.164E-02	4.214E-03	-0.344
PA-234M	5.966E-01		1.942E+00	3.497E+00	2.388E-01	0.171
U-235	4.038E-02		1.110E-01	1.892E-01	1.404E-02	0.213
NP-236	4.070E-02		3.446E-02	5.033E-02	4.803E-03	0.809
NP-239	-8.406E-02		1.194E-01	1.957E-01	2.618E-02	-0.430
AM-241	7.595E-02		3.527E-02	5.419E-02	3.429E-03	1.402
CM-243	-2.858E-03		4.715E-02	8.079E-02	8.706E-03	-0.035
AM-246	-4.523E-02		5.835E-02	9.610E-02	1.213E-02	-0.471
CF-249	1.898E-02		1.972E-02	3.521E-02	3.507E-03	0.539

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 21-NOV-2007 14:46:05

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793812_GAMMA2_400MLSAN_17237.CNF

---- Sample Information ----

Sample ID	: OH207-7938-12		
Sample Title	: SB-CZ-SS-2221-SD		
Sample Quantity	: 5.49800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17237		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 21-NOV-2007 11:45:44
Decay time	: 56 11:45:44.60	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.79

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	74.75	625	1077	1.44	149.09	143	16	21.3	1.93E+00	AM-243
										PB-214
										PB-212
4	77.10	837	698	1.02	153.76	143	16	12.3		PB-214
										PB-212
3	87.18*	283	917	1.09	173.83	164	14	37.2	1.05E+00	NP-237
										PB-214
										PB-212
4	90.06	230	473	1.05	179.56	177	13	29.2	1.29E+00	
4	92.94*	389	917	1.37	185.30	177	13	29.8		
0	128.89	140	738	0.84	256.89	254	7	66.7		AC-228
0	185.92*	516	898	1.30	370.46	365	11	24.5		
0	209.58	279	746	1.06	417.58	413	10	38.5		AC-228
2	238.78*	2279	571	1.11	475.75	471	19	5.5	3.74E+00	PB-212
2	241.15	191	413	0.99	480.46	471	19	42.1		
2	242.01	361	471	1.17	482.19	471	19	24.3		PB-214
0	270.65	204	568	1.06	539.22	534	11	47.5		RA-223
										AC-228
0	278.17	71	489	0.91	554.20	548	10	119.0		TL-208
0	295.46*	810	452	1.19	588.65	584	10	12.2		PB-214
0	300.39	167	265	1.35	598.47	595	7	36.1		PB-212
0	328.59	96	479	0.76	654.66	651	11	91.1		
0	338.44*	480	434	1.24	674.29	669	11	19.3		AC-228
0	352.18*	1437	396	1.25	701.66	696	13	7.8		PB-214
0	463.28	155	164	1.49	923.09	919	9	33.8		AC-228
0	510.93*	222	294	1.71	1018.08	1012	13	37.5		TL-208
0	583.43*	842	194	1.40	1162.64	1156	14	9.9		TL-208
0	609.42*	990	227	1.47	1214.47	1207	14	9.2		BI-214
0	661.46	78	183	1.36	1318.25	1316	12	71.6		CS-137
0	727.29	153	139	2.11	1449.56	1445	11	33.9		BI-212
0	768.25	116	136	1.47	1531.29	1525	13	45.5		BI-214
0	786.40	37	123	0.93	1567.50	1560	10	115.6		BI-212
0	794.87	68	130	1.59	1584.41	1579	11	69.0		AC-228
0	860.47	80	114	1.60	1715.32	1709	12	57.9		TL-208
0	911.29*	537	103	1.65	1816.75	1810	14	12.0		AC-228
0	934.71	71	97	1.40	1863.49	1856	15	66.0		BI-214
3	964.64	116	86	2.33	1923.24	1916	23	39.0	1.08E+00	AC-228
3	968.90*	366	52	1.74	1931.75	1916	23	13.2		AC-228
0	1120.04*	201	88	1.15	2233.56	2229	12	23.6		BI-214
0	1237.91*	70	81	1.73	2469.05	2464	12	57.3		BI-214
0	1377.35*	81	30	1.83	2747.73	2742	16	38.9		BI-214
0	1459.85*	894	26	2.19	2912.65	2904	17	7.3		K-40
0	1620.15	68	11	2.43	3233.27	3225	21	34.2		BI-212
0	1629.51	28	14	1.52	3251.99	3247	13	65.5		
0	1763.04*	164	30	2.57	3519.17	3512	16	22.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	90.06	230	473	1.05	179.56	177	13	2.13E-02	29.2	2.61E+00	
4	92.94	389	917	1.37	185.30	177	13	3.61E-02	29.8	2.71E+00	T
0	185.92	516	898	1.30	370.46	365	11	4.78E-02	24.5	3.21E+00	
2	241.15	191	413	0.99	480.46	471	19	1.77E-02	42.1	2.78E+00	
0	328.59	96	479	0.76	654.66	651	11	8.86E-03	91.1	2.20E+00	
0	1629.51	28	14	1.52	3251.99	3247	13	2.59E-03	65.5	6.21E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.659E+00	5.511E-01	1.846E-01	1.188E-02	30.652
CS-137	3.449E-02	2.500E-02	2.457E-02	2.795E-03	1.404
TL-208	3.362E-01	4.839E-02	2.379E-02	2.477E-03	14.134
BI-212	5.219E-01	1.860E-01	1.795E-01	1.962E-02	2.908
PB-212	8.552E-01	8.031E-02	4.102E-02	3.135E-03	20.847
BI-214	7.519E-01	1.056E-01	4.651E-02	4.952E-03	16.166
PB-214	8.385E-01	9.187E-02	4.562E-02	3.498E-03	18.380
RA-223	2.634E-01	1.273E-01	1.215E-01	1.081E-02	2.168
AC-228	9.972E-01	1.479E-01	8.528E-02	7.411E-03	11.693
NP-237	4.194E-01	1.645E-01	1.930E-01	2.425E-02	2.174
AM-243	2.141E-01	6.252E-02	4.346E-02	8.664E-03	4.927

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-3.662E-03		1.426E-02	2.254E-02	1.311E-03	-0.162
RH-101	7.080E-04		1.520E-02	2.460E-02	3.841E-03	0.029
SB-125	3.937E-02		3.794E-02	6.704E-02	5.496E-03	0.587
EU-155	2.279E-02		5.335E-02	8.985E-02	8.413E-03	0.254
PO-209	1.326E+00		2.678E+00	4.794E+00	9.191E-01	0.277
BI-211	-4.098E-02		3.830E-01	6.612E-01	6.472E-02	-0.062
PA-233	-4.754E-04		2.508E-02	4.294E-02	3.458E-03	-0.011
PA-234M	2.078E-01		1.536E+00	2.699E+00	2.107E-01	0.077
TH-234	1.215E+00	+	3.818E-01	5.065E-01	5.066E-02	2.398
U-235	5.924E-02		9.550E-02	1.592E-01	1.162E-02	0.372
NP-236	-1.979E-02		3.088E-02	5.059E-02	5.029E-03	-0.391
NP-239	-6.239E-02		9.318E-02	1.574E-01	2.125E-02	-0.396
AM-241	-3.282E-02		7.663E-02	1.291E-01	8.467E-03	-0.254
CM-243	-3.595E-02		4.873E-02	7.932E-02	8.576E-03	-0.453
AM-246	4.441E-02		5.006E-02	9.122E-02	1.167E-02	0.487
CF-249	-6.671E-03		1.598E-02	2.660E-02	2.548E-03	-0.251

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 21-NOV-2007 14:47:09

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793813_GAMMA3_400MLSAN_17238.CNF

---- Sample Information ----

Sample ID	: OH207-7938-13		
Sample Title	: SB-CZ-SS-2222-SD		
Sample Quantity	: 5.27800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17238		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 21-NOV-2007 11:46:51
Decay time	: 56 11:46:51.96	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.09

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**}2 + a5*x^{**}3 + a6*x^{**}4 + a7*x^{**}5$$

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA3__17090.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.42*	117	787	1.10	140.89	137	9	93.2		TH-234
2	74.88*	808	1115	1.59	166.28	159	18	18.5	4.21E+00	AM-243
										PB-214
										PB-212
2	77.19*	1276	941	1.53	171.40	159	18	11.3		PB-214
										PB-212
0	87.25	243	1031	1.35	193.70	189	9	49.4		NP-237
										PB-214
										PB-212
3	90.02	247	612	1.18	199.85	197	16	33.1	1.96E+00	
3	92.99*	427	1060	1.79	206.43	197	16	34.5		TH-234
0	154.43	155	806	1.31	342.62	337	12	75.1		
0	185.99*	312	683	1.65	412.58	407	12	36.5		
0	209.15	229	689	1.53	463.91	458	13	49.1		AC-228
3	238.69*	2295	436	1.45	529.37	521	23	5.6	1.77E+00	PB-212
3	241.62	388	547	2.04	535.88	521	23	36.0		PB-214
0	270.15	233	403	1.70	599.11	593	12	36.8		RA-223
										AC-228
4	295.32*	566	303	1.58	654.91	645	28	14.7	2.26E+00	PB-214
4	300.33	217	377	2.32	666.01	645	28	42.6		PB-212
0	328.27	140	349	1.74	727.94	722	13	57.6		
0	338.55	511	286	1.71	750.72	745	14	16.6		AC-228
0	352.08*	981	345	1.40	780.72	774	16	10.7		PB-214
0	463.14	174	236	1.20	1026.87	1019	16	42.4		AC-228
0	511.20*	270	253	2.47	1133.39	1126	19	33.5		TL-208
0	583.09*	712	164	1.61	1292.72	1285	14	10.8		TL-208
0	609.28*	712	128	1.61	1350.78	1343	16	10.5		BI-214
0	727.35*	144	103	1.52	1612.46	1606	12	33.2		BI-212
0	772.78	74	66	1.83	1713.15	1708	13	51.5		
0	796.04	107	131	1.08	1764.69	1754	22	58.0		AC-228
0	860.99	79	78	2.18	1908.62	1900	15	54.0		TL-208
0	911.22*	505	86	1.70	2019.96	2010	19	12.7		AC-228
4	964.59	88	62	1.91	2138.24	2133	25	39.9	1.48E+00	AC-228
4	969.08	301	71	2.46	2148.17	2133	25	17.5		AC-228
5	1116.73	31	4	2.08	2475.39	2472	18	40.7	1.95E+00	
5	1120.46*	138	18	1.93	2483.67	2472	18	22.6		BI-214
0	1460.87*	620	15	2.36	3238.03	3228	20	8.8		K-40
0	1589.09	48	59	1.32	3522.15	3514	18	80.1		AC-228
0	1764.83*	132	15	2.02	3911.56	3903	21	23.5		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	90.02	247	612	1.18	199.85	197	16	2.29E-02	33.1	3.55E+00	
0	154.43	155	806	1.31	342.62	337	12	1.44E-02	75.1	3.10E+00	
0	185.99	312	683	1.65	412.58	407	12	2.89E-02	36.5	2.81E+00	
0	328.27	140	349	1.74	727.94	722	13	1.29E-02	57.6	1.89E+00	
0	772.78	74	66	1.83	1713.15	1708	13	6.84E-03	51.5	9.21E-01	
5	1116.73	31	4	2.08	2475.39	2472	18	2.89E-03	40.7	6.82E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.940E+00	5.217E-01	2.273E-01	1.338E-02	21.732
TL-208	3.415E-01	4.595E-02	2.878E-02	2.291E-03	11.868
BI-212	5.982E-01	2.034E-01	2.179E-01	1.582E-02	2.746
PB-212	1.046E+00	9.739E-02	4.595E-02	3.435E-03	22.760
BI-214	6.494E-01	8.403E-02	5.387E-02	4.105E-03	12.053
PB-214	6.905E-01	9.202E-02	5.359E-02	4.263E-03	12.886
RA-223	3.663E-01	1.387E-01	1.426E-01	1.262E-02	2.569
AC-228	1.156E+00	1.675E-01	9.747E-02	6.853E-03	11.860
TH-234	1.055E+00	3.757E-01	3.223E-01	2.886E-02	3.274
NP-237	2.614E-01	1.323E-01	1.688E-01	1.882E-02	1.549
AM-243	1.607E-01	4.287E-02	2.767E-02	5.321E-03	5.807

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	8.061E-04		1.718E-02	2.452E-02	1.300E-03	0.033
RH-101	-2.994E-03		1.744E-02	2.903E-02	4.480E-03	-0.103
SB-125	3.205E-03		4.343E-02	7.575E-02	6.262E-03	0.042
CS-137	1.797E-02		1.813E-02	3.271E-02	2.355E-03	0.549
EU-155	5.789E-02		5.009E-02	8.789E-02	8.264E-03	0.659
PO-209	-1.172E-01		3.206E+00	5.672E+00	1.045E+00	-0.021
BI-211	-2.378E-01		5.105E-01	8.406E-01	6.054E-02	-0.283
PA-233	7.436E-03		3.148E-02	5.316E-02	4.338E-03	0.140
PA-234M	1.220E+00		2.018E+00	3.715E+00	2.537E-01	0.328
U-235	1.115E-01		1.040E-01	1.804E-01	1.339E-02	0.618
NP-236	3.555E-02		3.229E-02	4.745E-02	4.528E-03	0.749
NP-239	1.093E-02		1.112E-01	1.879E-01	2.513E-02	0.058
AM-241	1.768E-02		3.386E-02	4.994E-02	3.160E-03	0.354
CM-243	9.604E-03		4.499E-02	7.774E-02	8.377E-03	0.124
AM-246	5.848E-02		5.864E-02	1.103E-01	1.392E-02	0.530
CF-249	8.291E-03		1.924E-02	3.401E-02	3.387E-03	0.244

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 21-NOV-2007 17:50:59

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207793814_GAMMA2_400MLSAN_17239.CNF

---- Sample Information ----

Sample ID	: OH207-7938-14		
Sample Title	: SB-CZ-SS-2223-SD		
Sample Quantity	: 3.97000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17239		

---- Sample Decay/Count Information ----

Collection Date	: 26-SEP-2007 00:00:00	Acquisition date	: 21-NOV-2007 14:50:43
Decay time	: 56 14:50:43.67	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.76

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG110907_GAMMA2__17092.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/27/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.76	159	249	1.08	149.10	145	13	35.0	9.86E-01	AM-243
										PB-214
										PB-212
1	77.12	223	232	1.07	153.80	145	13	25.7		PB-214
										PB-212
2	87.14*	81	204	1.22	173.75	171	12	59.4	2.66E+00	NP-237
										PB-214
										PB-212
2	89.99	61	310	1.10	179.42	171	12	97.4		
0	92.73*	75	290	1.52	184.88	182	7	85.7		
1	185.81*	60	223	1.27	370.23	366	10	101.2	9.54E-01	
1	187.29	52	147	1.04	373.19	366	10	89.5		
4	238.79*	544	150	1.08	475.76	470	17	11.6	1.10E+00	PB-212
4	241.89	89	211	1.79	481.93	470	17	64.6		PB-214
0	295.31*	162	161	1.13	588.36	583	11	35.2		PB-214
0	299.76	69	147	1.36	597.23	594	9	67.6		PB-212
0	338.50*	119	104	1.52	674.41	670	9	37.6		AC-228
0	351.95*	229	130	1.09	701.21	696	11	24.0		PB-214
0	463.10	73	57	1.17	922.74	916	12	47.5		AC-228
0	583.63*	155	107	1.51	1163.03	1158	14	33.2		
0	609.59*	146	64	1.27	1214.80	1210	11	28.6		BI-214
0	728.68	31	61	0.90	1452.34	1445	11	103.8		BI-212
0	911.22*	137	18	1.86	1816.61	1810	15	23.1		AC-228
0	969.11*	53	37	1.69	1932.17	1927	11	55.6		AC-228
0	1120.32*	21	19	1.29	2234.12	2227	11	99.0		BI-214
0	1154.99	16	9	1.52	2303.38	2299	9	84.1		BI-214
0	1237.45*	15	10	1.29	2468.13	2464	8	95.3		BI-214
0	1762.69*	29	3	2.08	3518.46	3512	12	50.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.99	61	310	1.10	179.42	171	12	5.61E-03	97.4	2.61E+00	
0	92.73	75	290	1.52	184.88	182	7	6.97E-03	85.7	2.70E+00	T
1	185.81	60	223	1.27	370.23	366	10	5.51E-03	****	3.21E+00	
1	187.29	52	147	1.04	373.19	366	10	4.86E-03	89.5	3.20E+00	
0	583.63	155	107	1.51	1163.03	1158	14	1.43E-02	33.2	1.35E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
BI-212	1.487E-01	1.553E-01	1.701E-01	1.860E-02	0.874
PB-212	2.826E-01	3.915E-02	3.496E-02	2.671E-03	8.082
BI-214	1.540E-01	4.697E-02	4.144E-02	4.413E-03	3.716
PB-214	1.849E-01	4.663E-02	3.946E-02	3.026E-03	4.686
AC-228	3.510E-01	8.659E-02	7.870E-02	6.839E-03	4.459
NP-237	1.661E-01	1.008E-01	1.698E-01	2.134E-02	0.978
AM-243	7.565E-02	3.046E-02	3.678E-02	7.332E-03	2.057

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.986E-02		1.583E-01	3.332E-01	2.145E-02	0.150
CO-60	6.364E-03		1.029E-02	2.092E-02	1.156E-03	0.304
RH-101	-6.240E-03		1.282E-02	2.044E-02	3.191E-03	-0.305
SB-125	-1.973E-02		3.230E-02	5.319E-02	4.361E-03	-0.371
CS-137	1.882E-03		1.356E-02	2.456E-02	2.794E-03	0.077
EU-155	3.139E-03		4.469E-02	7.577E-02	7.094E-03	0.041
TL-208	8.551E-02	+	2.972E-02	4.211E-02	4.385E-03	2.030
PO-209	2.622E-01		2.342E+00	4.255E+00	8.157E-01	0.062
BI-211	4.102E-02		2.917E-01	5.387E-01	5.273E-02	0.076
RA-223	1.196E-01		6.489E-02	1.218E-01	1.084E-02	0.981
PA-233	2.462E-05		2.249E-02	3.921E-02	3.158E-03	0.001
PA-234M	3.443E-01		1.236E+00	2.347E+00	1.832E-01	0.147
TH-234	3.249E-01	+	2.804E-01	4.295E-01	4.296E-02	0.757
U-235	1.013E-01		7.874E-02	1.380E-01	1.007E-02	0.734
NP-236	2.430E-03		2.536E-02	4.319E-02	4.293E-03	0.056
NP-239	8.432E-03		7.641E-02	1.350E-01	1.822E-02	0.062
AM-241	-9.435E-03		6.526E-02	1.122E-01	7.358E-03	-0.084
CM-243	-1.396E-02		4.081E-02	6.791E-02	7.341E-03	-0.206
AM-246	-1.177E-02		3.355E-02	5.785E-02	7.400E-03	-0.203
CF-249	8.816E-03		1.329E-02	2.413E-02	2.312E-03	0.365

COUNTING RAW DATA

GPL Laboratories, LLLP
Frederick, MD

GPL Laboratories, LLLP

Analysis Run Log

Project: 710114 Instrument: P3050

Data File Name: 071019.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
STD0		10/19/07	12:08 PM
STD1		10/19/07	12:17 PM
STD2		10/19/07	12:27 PM
STD3		10/19/07	12:36 PM
STD4		10/19/07	12:43 PM
IVICV		10/19/07	12:49 PM
IBICB		10/19/07	12:58 PM
CVCCV1		10/19/07	1:07 PM
BCCCB1		10/19/07	1:17 PM
PQL		10/19/07	1:26 PM
IAICSAI		10/19/07	1:36 PM
IBICSABI		10/19/07	1:45 PM
CVCCV2		10/19/07	2:09 PM
BCCCB2		10/19/07	2:19 PM
BLK100908	BLK100908	10/19/07	2:28 PM
BKS100908	BKS100908	10/19/07	2:37 PM
S 710114-001-001-1/1	SB-CZ-SS-2210-ST	10/19/07	2:47 PM
SP710114-001-001-1/1	SB-CZ-SS-2210-ST MS	10/19/07	2:56 PM
SD710114-001-001-1/1	SB-CZ-SS-2210-ST MSD	10/19/07	3:05 PM
SE710114-001-001-1/1	SB-CZ-SS-2210-ST	10/19/07	3:24 PM
S 710114-002-002-1/1	SB-CZ-SS-2211-ST	10/19/07	3:33 PM
S 710114-003-003-1/1	SB-CZ-SS-2212-ST	10/19/07	3:42 PM
S 710114-004-004-1/1	SB-CZ-SS-2213-ST	10/19/07	3:52 PM
CVCCV3		10/19/07	4:05 PM
BCCCB3		10/19/07	4:14 PM
S 710114-005-005-1/1	SB-CZ-SS-2214-ST	10/19/07	4:23 PM
S 710114-006-006-1/1	SB-CZ-SS-2215-ST	10/19/07	4:32 PM
S 710114-007-007-1/1	SB-CZ-SS-2216-ST	10/19/07	4:42 PM
S 710114-008-008-1/1	SB-CZ-SS-2217-ST	10/19/07	4:51 PM
S 710114-009-009-1/1	SB-CZ-SS-2218-ST	10/19/07	5:00 PM
S 710114-010-010-1/1	SB-CZ-SS-2219-ST	10/19/07	5:10 PM
S 710114-011-011-1/1	SB-CZ-SS-2220-ST	10/19/07	5:19 PM
S 710114-012-012-1/1	SB-CZ-SS-2221-ST	10/19/07	5:29 PM
S 710114-013-013-1/1	SB-CZ-SS-2222-ST	10/19/07	5:38 PM
S 710114-014-014-1/1	SB-CZ-SS-2223-ST	10/19/07	5:47 PM
CVCCV4		10/19/07	6:00 PM
BCCCB4		10/19/07	6:09 PM
S 710114-015-015-1/1	SB-CZ-SS-2210-SD	10/19/07	6:19 PM
S 710114-016-016-1/1	SB-CZ-SS-2211-SD	10/19/07	6:28 PM

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Analysis Run Log

Project: 710114 Instrument: P3050

Data File Name: 071019.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
S 710114-017-017-1/1	SB-CZ-SS-2212-SD	10/19/07	6:37 PM
S 710114-018-018-1/1	SB-CZ-SS-2213-SD	10/19/07	6:47 PM
S 710114-019-019-1/1	SB-CZ-SS-2214-SD	10/19/07	6:56 PM
BLK100964	BLK100964	10/19/07	7:09 PM
BKS100964	BKS100964	10/19/07	7:18 PM
S 710114-020-020-1/1	SB-CZ-SS-2215-SD	10/19/07	7:27 PM
SP710114-020-020-1/1	SB-CZ-SS-2215-SD MS	10/19/07	7:36 PM
SD710114-020-020-1/1	SB-CZ-SS-2215-SD MSD	10/19/07	7:46 PM
CVCCV5		10/19/07	7:58 PM
BCCCB5		10/19/07	8:08 PM
SE710114-020-020-1/1	SB-CZ-SS-2215-SD	10/19/07	8:26 PM
S 710114-021-021-1/1	SB-CZ-SS-2216-SD	10/19/07	8:36 PM
S 710114-022-022-1/1	SB-CZ-SS-2217-SD	10/19/07	8:45 PM
S 710114-023-023-1/1	SB-CZ-SS-2218-SD	10/19/07	8:54 PM
S 710114-024-024-1/1	SB-CZ-SS-2219-SD	10/19/07	9:04 PM
S 710114-025-025-1/1	SB-CZ-SS-2220-SD	10/19/07	9:13 PM
~~IATCSAI 222222~~		10/19/07	9:26 PM
~~IBICSABI 222222~~		10/19/07	9:35 PM
CVCCV6		10/19/07	9:44 PM
BCCCB6		10/19/07	9:53 PM
S 710114-026-026-1/1	SB-CZ-SS-2221-SD	10/19/07	10:03 PM
S 710114-027-027-1/1	SB-CZ-SS-2222-SD	10/19/07	10:12 PM
S 710114-028-028-1/1	SB-CZ-SS-2223-SD	10/19/07	10:22 PM
S 710114-029-029-1/1	SB-CZ-SS-2191-ST	10/19/07	10:31 PM
S 710114-030-030-1/1	SB-CZ-SS-2192-ST	10/19/07	10:40 PM
S 710114-031-031-1/1	SB-CZ-SS-2193-ST	10/19/07	10:50 PM
S 710114-032-032-1/1	SB-CZ-SS-2194-ST	10/19/07	10:59 PM
S 710114-033-033-1/1	SB-CZ-SS-2195-ST	10/19/07	11:08 PM
S 710114-034-034-1/1	SB-CZ-SS-2196-ST	10/19/07	11:18 PM
S 710114-035-035-1/1	SB-CZ-SS-2197-ST	10/19/07	11:27 PM
CVCCV7		10/19/07	11:40 PM
BCCCB7		10/19/07	11:49 PM
S 710114-036-036-1/1	SB-CZ-SS-2198-ST	10/19/07	11:58 PM
S 710114-037-037-1/1	SB-CZ-SS-2199-ST	10/20/07	12:08 AM
S 710114-038-038-1/1	SB-CZ-SS-2200-ST	10/20/07	12:17 AM
S 710114-039-039-1/1	SB-CZ-SS-2201-ST	10/20/07	12:26 AM
~~IAICSAI 222222~~		10/20/07	12:48 AM
~~IBICSABI 222222~~		10/20/07	12:57 AM
CVCCV8		10/20/07	1:06 AM

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Analysis Run Log

Project: 710114 Instrument: P3050

Data File Name: 071022.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
BCCCB8		10/20/07	1:16 AM

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Analysis Run Log

Project: 710114 Instrument: P3050

Data File Name: 071022.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
STD0		10/22/07	12:25 PM
STD1		10/22/07	12:34 PM
STD2		10/22/07	12:44 PM
STD3		10/22/07	12:53 PM
STD4		10/22/07	1:00 PM
IVICV		10/22/07	1:06 PM
IBICB		10/22/07	1:15 PM
CVCCV1		10/22/07	1:24 PM
BCCCB1		10/22/07	1:34 PM
PQL		10/22/07	1:43 PM
IAICSAI		10/22/07	1:52 PM
IBICSABI		10/22/07	2:02 PM
CVCCV2		10/22/07	2:27 PM
BCCCB2		10/22/07	2:36 PM
BLK100991	BLK100991	10/22/07	2:46 PM
BKS100991	BKS100991	10/22/07	2:55 PM
S 710114-040-040-1/1	SB-CZ-SS-2202-ST	10/22/07	3:04 PM
SP710114-040-040-1/1	SB-CZ-SS-2202-ST MS	10/22/07	3:13 PM
SD710114-040-040-1/1	SB-CZ-SS-2202-ST MSD	10/22/07	3:23 PM
SE710114-040-040-1/1	SB-CZ-SS-2202-ST	10/22/07	3:41 PM
S 710114-041-041-1/1	SB-CZ-SS-2203-ST	10/22/07	3:51 PM
S 710114-042-042-1/1	SB-CZ-SS-2204-ST	10/22/07	4:00 PM
S 710114-043-043-1/1	SB-CZ-SS-2191-SD	10/22/07	4:10 PM
CVCCV3		10/22/07	4:22 PM
BCCCB3		10/22/07	4:31 PM
S 710114-044-044-1/1	SB-CZ-SS-2192-SD	10/22/07	4:40 PM
S 710114-045-045-1/1	SB-CZ-SS-2193-SD	10/22/07	4:50 PM
S 710114-046-046-1/1	SB-CZ-SS-2194-SD	10/22/07	4:59 PM
S 710114-047-047-1/1	SB-CZ-SS-2195-SD	10/22/07	5:08 PM
S 710114-048-048-1/1	SB-CZ-SS-2196-SD	10/22/07	5:18 PM
S 710114-049-049-1/1	SB-CZ-SS-2197-SD	10/22/07	5:27 PM
S 710114-050-050-1/1	SB-CZ-SS-2198-SD	10/22/07	5:36 PM
S 710114-051-051-1/1	SB-CZ-SS-2199-SD	10/22/07	5:46 PM
S 710114-052-052-1/1	SB-CZ-SS-2200-SD	10/22/07	5:55 PM
S 710114-053-053-1/1	SB-CZ-SS-2201-SD	10/22/07	6:04 PM
CVCCV4		10/22/07	6:17 PM
BCCCB4		10/22/07	6:26 PM
S 710114-054-054-1/1	SB-CZ-SS-2202-SD	10/22/07	6:35 PM
S 710114-055-055-1/1	SB-CZ-SS-2203-SD	10/22/07	6:45 PM

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Analysis Run Log

Project: 710114 Instrument: P3050

Data File Name: 071022.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
S 710114-056-056-1/1	SB-CZ-SS-2204-SD	10/22/07	6:54 PM
S 710114-057-057-1/1	SB-CZ-SS-2205-ST	10/22/07	7:04 PM
S 710114-058-058-1/1	SB-CZ-SS-2206-ST	10/22/07	7:13 PM
S 710114-059-059-1/1	SB-CZ-SS-2207-ST	10/22/07	7:22 PM
BLK100994	BLK100994	10/22/07	7:35 PM
BKS100994	BKS100994	10/22/07	7:44 PM
S 710114-060-060-1/1	SB-CZ-SS-2208-ST	10/22/07	7:54 PM
SP710114-060-060-1/1	SB-CZ-SS-2208-ST MS	10/22/07	8:03 PM
CVCCV5		10/22/07	8:15 PM
BCCCB5		10/22/07	8:25 PM
SD710114-060-060-1/1	SB-CZ-SS-2208-ST MSD	10/22/07	8:34 PM
SE710114-060-060-1/1	SB-CZ-SS-2208-ST	10/22/07	8:53 PM
S 710114-061-061-1/1	SB-CZ-SS-2209-ST	10/22/07	9:02 PM
S 710114-062-062-1/1	SB-CZ-SS-2205-SD	10/22/07	9:11 PM
S 710114-063-063-1/1	SB-CZ-SS-2206-SD	10/22/07	9:21 PM
S 710114-064-064-1/1	SB-CZ-SS-2207-SD	10/22/07	9:30 PM
CVCCV6		10/22/07	10:01 PM
BCCCB6		10/22/07	10:10 PM
S 710114-065-065-1/1	SB-CZ-SS-2208-SD	10/22/07	10:20 PM
S 710114-066-066-1/1	SB-CZ-SS-2209-SD	10/22/07	10:29 PM
CVCCV7		10/22/07	11:56 PM
BCCCB7		10/23/07	12:05 AM

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ICP ANALYSIS LOG

Document Control No: GP_M_178

Instrument ID: Trace (424690) Inst. Method: Trace 1 Nebulizer: Cons: Cut Analytical Batch No: 07 10 19

Profile: - 0.0193 Intensity: 6280 At Setting: 4.49

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
710114	SC&A	100908	001	S	10.16.07	6010C	Pb only 10X all
710114	↓	100964	007	↓	↓	↓	↓ ↓

KO 22/Oct/2007

Source Solution Numbers

Stds.	Number	Stds.	Number
S0	129-116-07	ICV	41804
S1	41930	CCV	41839
S2	41931	ICSA	41947
S3	41944	ICSAB	41948
S4	41816	CRI	
S5		Low Ck	41826
Ints	41924	LR	41613

Post Digestion Spikes

Spike 9.9 mls of sample with 0.1 mls of 41413

Samples:

710114-001 - 001 - 1/1

020 - 020 - 1/1

Analyst: KO Date: 22/Oct/2007 Reviewed: RA Date: 10-22-07

Supersedes GP_M_166

ICP ANALYSIS LOG

GPL - Maryland Laboratory

ICPST Analysis Log

Seq	Sample Name	Dil	Date	Time
1	STD0	1	10/19/2007	12:08
2	STD1	1	10/19/2007	12:17
3	STD2	1	10/19/2007	12:27
4	STD3	1	10/19/2007	12:36
5	STD4	1	10/19/2007	12:43
6	ICVICV	1	10/19/2007	12:49
7	ICBICB	1	10/19/2007	12:58
8	CVCCV Zn	1	10/19/2007	13:07
9	CCBCCB	1	10/19/2007	13:17
10	PQL As, Se	1	10/19/2007	13:26
11	AICSAI Cd, Mn, Zn	1	10/19/2007	13:36
12	BICSABI	1	10/19/2007	13:45
13	LR	1	10/19/2007	13:54
14	CVCCV3 K	1	10/19/2007	14:08
15	CCBCCB3	1	10/19/2007	14:10
16	BLK100908	1	10/19/2007	14:28
17	BKS100908	1	10/19/2007	14:37
18	S 710114-001-001-1/1	1	10/19/2007	14:47
19	SP710114-001-001-1/	1	10/19/2007	14:56
20	SD710114-001-001-1/	1	10/19/2007	15:05
21	PS710114-001-001-1/	1	10/19/2007	15:15
22	SE710114-001-001-1/	1	10/19/2007	15:24
23	S 710114-002-002-1/1	1	10/19/2007	15:33
24	S 710114-003-003-1/1	1	10/19/2007	15:42
25	S 710114-004-004-1/1	1	10/19/2007	15:52
26	CVCCV3 Zn	1	10/19/2007	16:05
27	CCBCCB3	1	10/19/2007	16:14
28	S 710114-005-005-1/1	1	10/19/2007	16:23
29	S 710114-006-006-1/1	1	10/19/2007	16:32
30	S 710114-007-007-1/1	1	10/19/2007	16:42
31	S 710114-008-008-1/1	1	10/19/2007	16:51
32	S 710114-009-009-1/1	1	10/19/2007	17:00
33	S 710114-010-010-1/1	1	10/19/2007	17:10
34	S 710114-011-011-1/1	1	10/19/2007	17:19
35	S 710114-012-012-1/1	1	10/19/2007	17:29
36	S 710114-013-013-1/1	1	10/19/2007	17:38
37	S 710114-014-014-1/1	1	10/19/2007	17:47
38	CVCCV3 Zn	1	10/19/2007	18:00
39	CCBCCB3	1	10/19/2007	18:09
40	S 710114-015-015-1/1	1	10/19/2007	18:19
41	S 710114-016-016-1/1	1	10/19/2007	18:28
42	S 710114-017-017-1/1	1	10/19/2007	18:37
43	S 710114-018-018-1/1	1	10/19/2007	18:47
44	S 710114-019-019-1/1	1	10/19/2007	18:56
45	BLK100904	1	10/19/2007	19:09
46	BKS100904	1	10/19/2007	19:18
47	S 710114-020-020-1/1	1	10/19/2007	19:27
48	SP710114-020-020-1/	1	10/19/2007	19:38
49	SD710114-020-020-1/	1	10/19/2007	19:48
50	CVCCV4 Zn	1	10/19/2007	19:58
51	CCBCCB4	1	10/19/2007	20:08
52	PS710114-020-020-1/	1	10/19/2007	20:17
53	SE710114-020-020-1/	1	10/19/2007	20:26
54	S 710114-021-021-1/1	1	10/19/2007	20:36
55	S 710114-022-022-1/1	1	10/19/2007	20:46
56	S 710114-023-023-1/1	1	10/19/2007	20:54
57	S 710114-024-024-1/1	1	10/19/2007	21:04
58	S 710114-025-025-1/1	1	10/19/2007	21:13
59	AICSAI Cd, Mn, Zn	1	10/19/2007	21:20
60	BICSABI Cr	1	10/19/2007	21:35
61	CVCCV4 Zn	1	10/19/2007	21:44
62	CCBCCB4	1	10/19/2007	21:53
63	S 710114-026-026-1/1	1	10/19/2007	22:03
64	S 710114-027-027-1/1	1	10/19/2007	22:12
65	S 710114-028-028-1/1	1	10/19/2007	22:22
66	S 710114-029-029-1/1	1	10/19/2007	22:31
67	S 710114-030-030-1/1	1	10/19/2007	22:40
68	S 710114-031-031-1/1	1	10/19/2007	22:50
69	S 710114-032-032-1/1	1	10/19/2007	22:59
70	S 710114-033-033-1/1	1	10/19/2007	23:08
71	S 710114-034-034-1/1	1	10/19/2007	23:18
72	S 710114-035-035-1/1	1	10/19/2007	23:27
73	CVCCV4 Zn	1	10/19/2007	23:40
74	CCBCCB4	1	10/19/2007	23:49
75	S 710114-036-036-1/1	1	10/19/2007	23:58
76	S 710114-037-037-1/1	1	10/20/2007	0:08
77	S 710114-038-038-1/1	1	10/20/2007	0:17
78	S 710114-039-039-1/1	1	10/20/2007	0:26
79	AICSAI Cd, Mn, Zn	1	10/20/2007	0:48
80	BICSABI	1	10/20/2007	0:57
81	CVCCV3 Zn	1	10/20/2007	1:06
82	CCBCCB3	1	10/20/2007	1:16

Analyst Signature: [signature] Date: 22/Oct/2007

Analyst Signature:

Sample Dilutions:

Method: TRACE1 Standard: STD0
Run Time: 10/19/07 12:08:12

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	.02264	.00390	.00043	.00652	-.00692	-.00081	.08738
#1	.02285	.00472	-.00020	.00648	-.00683	-.00041	.08647
#2	.02242	.00309	.00107	.00655	-.00701	-.00121	.08828

Elem	CR	CO	CU	FE	MG	MN	NI
Avge	.00022	-.00207	.03524	.00165	-.00029	.00061	-.01034
#1	.00029	-.00203	.03512	.00220	-.00029	.00049	-.00966
#2	.00014	-.00211	.03535	.00110	-.00029	.00072	-.01102

Elem	K	AG	NA	TL	V	ZN	B
Avge	-.00244	.00163	-.00264	-.00396	.00003	.00016	.00006
#1	-.00266	.00203	-.00310	-.00443	.00009	.00043	-.00003
#2	-.00222	.00124	-.00219	-.00349	-.00003	-.00012	.00014

Elem	MO	SN	SR	TI	1/PB	2/PB	1/SE
Avge	-.00020	-.00058	.00634	.00055	-.01304	.00259	-.01371
#1	-.00061	-.00116	.00639	.00041	-.01186	.00304	-.01435
#2	.00020	.00000	.00629	.00069	-.01423	.00214	-.01307

Elem	2/SE	TE	ZR	SI
Avge	.01581	-.02612	3.9845	.07979
#1	.01649	-.02540	4.0098	.08013
#2	.01512	-.02684	3.9591	.07945

Method: TRACE1 Standard: STD1
Run Time: 10/19/07 12:17:30

Elem	AL	SB	AS	BA	BE	CD	CR
Avge	6.0266	.42631	.33821	2.8534	.11252	2.4172	.72638
#1	6.0195	.42375	.33366	2.8555	.11226	2.4177	.72554
#2	6.0337	.42887	.34277	2.8513	.11277	2.4167	.72722

Elem	CO	CU	FE	MN	NI	AG	TL
Avge	.80071	.98117	6.2472	1.1862	1.2251	.51531	.17838
#1	.79995	.97756	6.2506	1.1851	1.2219	.51491	.17691
#2	.80147	.98478	6.2439	1.1874	1.2283	.51570	.17985

Elem	V	ZN	B	MO	SN	SR	TI
Avge	.19932	.35026	.67657	.49452	.42000	3.3769	1.6263
#1	.19879	.35195	.67519	.49170	.42210	3.3804	1.6219
#2	.19984	.34858	.67795	.49734	.41789	3.3735	1.6307

Elem	1/PB	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	1.0664	1.3097	.35954	.75276	.47733	4.6232	.33941
#1	1.0734	1.3027	.36147	.75055	.48102	4.6195	.33959
#2	1.0594	1.3166	.35761	.75496	.47364	4.6268	.33922

Method: TRACE1 Standard: STD2
Run Time: 10/19/07 12:27:04

Elem	AL	SB	AS	BA	BE	CD	CR
Avge	11.983	.83726	.66939	5.6713	.22676	4.7275	1.4275
#1	11.945	.83645	.66731	5.6494	.22633	4.7042	1.4251
#2	12.020	.83807	.67147	5.6933	.22719	4.7508	1.4298

Elem	CO	CU	FE	MN	NI	AG	TL
Avge	1.5804	1.9290	12.295	2.3400	2.4053	1.0238	.35514
#1	1.5749	1.9231	12.269	2.3351	2.4018	1.0248	.35281
#2	1.5858	1.9348	12.320	2.3449	2.4087	1.0228	.35746

Elem	V	ZN	B	MO	SN	SR	TI
Avge	.39307	.68017	1.3406	.98431	.82638	6.6498	3.2103
#1	.39203	.67813	1.3323	.97787	.82143	6.6283	3.2050
#2	.39411	.68221	1.3488	.99075	.83134	6.6713	3.2155

Elem	1/PB	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	2.1125	2.5549	.72272	1.4706	.96821	5.2099	.59443
#1	2.1063	2.5411	.72101	1.4592	.96436	5.2225	.59250
#2	2.1187	2.5688	.72442	1.4820	.97205	5.1973	.59636

Method: TRACE1 Standard: STD3
Run Time: 10/19/07 12:36:34

Elem	CA	MG	K	NA
Avge	24.312	8.4019	11.087	2.9604
#1	24.352	8.4120	11.094	2.9651
#2	24.272	8.3918	11.079	2.9556

Method: TRACE1 Standard: STD4
Run Time: 10/19/07 12:43:16

Elem	1/PB	2/PB
Avge	4.1995	5.1103
#1	4.1931	5.1176
#2	4.2059	5.1030

Method: TRACE1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AL	308.215	Multiple	Standards	8343.20	-189.381	10/19/07 12:27:04
SB	206.838	Multiple	Standards	1188.03	-4.65239	10/19/07 12:27:04
AS	189.042	Multiple	Standards	1474.88	-.650276	10/19/07 12:27:04
BA	493.409	Multiple	Standards	176.168	-1.15422	10/19/07 12:27:04
BE	313.042	Multiple	Standards	428.922	2.96542	10/19/07 12:27:04
CD	226.502	Multiple	Standards	211.473	.142550	10/19/07 12:27:04
CA	317.933	STD3	STD0	1.12703	-.065415	10/19/07 12:43:16
CR	267.716	Multiple	Standards	693.974	-.172174	10/19/07 12:27:04
CO	228.616	Multiple	Standards	628.642	1.28058	10/19/07 12:27:04
CU	324.753	Multiple	Standards	527.867	-18.5991	10/19/07 12:27:04
FE	271.441	Multiple	Standards	8077.08	-15.3073	10/19/07 12:27:04
PB	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
MG	279.078	STD3	STD0	1.03726	.000421	10/19/07 12:43:16
MN	257.610	Multiple	Standards	423.927	-.274061	10/19/07 12:27:04
NI	231.604	Multiple	Standards	409.510	4.20746	10/19/07 12:27:04
K	766.491	STD3	STD0	.932793	-.001848	10/19/07 12:43:16
SE	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
AG	328.068	Multiple	Standards	975.929	-1.60004	10/19/07 12:27:04
NA	330.232	STD3	STD0	.767875	.000673	10/19/07 12:43:16
TL	190.864	Multiple	Standards	2821.90	11.1525	10/19/07 12:27:04
V	292.402	Multiple	Standards	2516.84	-.090282	10/19/07 12:27:04
ZN	206.200	Multiple	Standards	1450.14	-.267498	10/19/07 12:27:04
B	249.678	Multiple	Standards	741.556	-.054366	10/19/07 12:27:04
MO	202.030	Multiple	Standards	1013.20	.199175	10/19/07 12:27:04
SN	189.989	Multiple	Standards	1201.64	.673968	10/19/07 12:27:04
SR	421.552	Multiple	Standards	149.429	-.965972	10/19/07 12:27:04
TI	334.941	Multiple	Standards	309.579	-.186028	10/19/07 12:27:04
1/PB	220.351	Multiple	Standards	485.150	6.36429	10/19/07 12:43:16
2/PB	220.352	Multiple	Standards	384.008	-1.07079	10/19/07 12:43:16
1/SE	196.021	Multiple	Standards	1344.53	18.4183	10/19/07 12:27:04
2/SE	196.022	Multiple	Standards	654.015	-10.3531	10/19/07 12:27:04
TE	214.200	Multiple	Standards	1049.88	27.4062	10/19/07 12:27:04
ZR	349.600	Multiple	Standards	790.369	-3149.24	10/19/07 12:27:04
SI	288.158	Multiple	Standards	1934.52	-154.372	10/19/07 12:27:04

Method: TRACE1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AL	308.215	STD0	.000000	-.497974	.497974
		STD1	50000.0	50092.0	-91.9688
		STD2	100000.	99785.6	214.430
CorCoef: 1.00000					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SB	206.838	STD0	.000000	-.016994	.016994
		STD1	500.000	501.818	-1.81781
		STD2	1000.00	990.040	9.95953
CorCoef: 0.99997					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AS	189.042	STD0	.000000	-.012157	.012157
		STD1	500.000	498.171	1.82864
		STD2	1000.00	986.617	13.3826
CorCoef: 0.99998					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
BA	493.409	STD0	.000000	-.006365	.006365
		STD1	500.000	501.523	-1.52292
		STD2	1000.00	997.954	2.04590
CorCoef: 1.00000					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
BE	313.042	STD0	.000000	-.002784	.002784
		STD1	50.0000	51.2267	-1.22670
		STD2	100.000	100.227	-.226616
CorCoef: 0.99992					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CD	226.502	STD0	.000000	-.028440	.028440
		STD1	500.000	511.316	-11.3159
		STD2	1000.00	999.880	.119873
CorCoef: 0.99991					
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
CA	317.933	STD0	.033061	.087376	-.054315
		STD3	27.3352	24.3122	3.02303
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CR	267.716	STD0	.000000	-.021723	.021723
		STD1	500.000	503.918	-3.91806
		STD2	1000.00	990.458	9.54224
CorCoef: 0.99995					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CO	228.616	STD0	.000000	-.018140	.018140
		STD1	500.000	504.642	-4.64151
		STD2	1000.00	994.771	5.22900
CorCoef: 0.99996					

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CU	324.753	STD0	.000000	.001242	-.001242
		STD1	500.000	499.328	.671844
		STD2	1000.00	999.650	.350037
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
FE	271.441	STD0	.000000	-1.99907	1.99907
		STD1	50000.0	50443.9	-443.938
		STD2	100000.	99288.6	711.383
CorCoef:	0.99996				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
PB	220.353	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
MG	279.078	STD0	.000122	-.000289	.000411
		STD3	8.71535	8.40190	.313451
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
MN	257.610	STD0	.000000	-.016886	.016886
		STD1	500.000	502.603	-2.60318
		STD2	1000.00	991.698	8.30237
CorCoef:	0.99997				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
NI	231.604	STD0	.000000	-.028289	.028289
		STD1	500.000	505.908	-5.90784
		STD2	1000.00	989.184	10.8157
CorCoef:	0.99991				
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
K	766.491	STD0	-.004126	-.002442	-.001684
		STD3	10.3396	11.0865	-.746941
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SE	196.026	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AG	328.068	STD0	.000000	-.006331	.006331
		STD1	500.000	501.305	-1.30463
		STD2	1000.00	997.545	2.45520
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
NA	330.232	STD0	-.001357	-.002644	.001287
		STD3	2.27386	2.96037	-.686503

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TL	190.864	STD0	.000000	-.019684	.019684
		STD1	500.000	514.531	-14.5309
		STD2	1000.00	1013.31	-13.3140
CorCoef:	0.99996				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD0	.000000	-.017384	.017384
		STD1	500.000	501.556	-1.55637
		STD2	1000.00	989.205	10.7947
CorCoef:	0.99997				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
ZN	206.200	STD0	.000000	-.036564	.036564
		STD1	500.000	507.663	-7.66281
		STD2	1000.00	986.075	13.9255
CorCoef:	0.99985				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.678	STD0	.000000	-.011589	.011589
		STD1	500.000	501.659	-1.65936
		STD2	1000.00	994.047	5.95282
CorCoef:	0.99999				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
MO	202.030	STD0	.000000	-.006248	.006248
		STD1	500.000	501.250	-1.24954
		STD2	1000.00	997.501	2.49908
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SN	189.989	STD0	.000000	-.021281	.021281
		STD1	500.000	505.356	-5.35623
		STD2	1000.00	993.688	6.31250
CorCoef:	0.99995				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SR	421.552	STD0	.000000	-.018227	.018227
		STD1	500.000	503.645	-3.64545
		STD2	1000.00	992.709	7.29095
CorCoef:	0.99996				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TI	334.941	STD0	.000000	-.016123	.016123
		STD1	500.000	503.276	-3.27560
		STD2	1000.00	993.653	6.34723
CorCoef:	0.99997				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/PB	220.351	STD0	.000000	.035749	-.035749
		STD1	500.000	523.727	-23.7272
		STD2	1000.00	1031.24	-31.2371
		STD4	2000.00	2043.76	-43.7606
CorCoef:	0.99973				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/PB	220.352	STD0	.000000	-.077516	.077516
		STD1	500.000	501.857	-1.85684
		STD2	1000.00	980.041	19.9593
		STD4	2000.00	1961.31	38.6866

CorCoef: 0.99992

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/SE	196.021	STD0	.000000	-.016910	.016910
		STD1	500.000	501.831	-1.83087
		STD2	1000.00	990.134	9.86572

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/SE	196.022	STD0	.000000	-.015595	.015595
		STD1	500.000	481.960	18.0396
		STD2	1000.00	951.445	48.5547

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TE	214.200	STD0	.000000	-.016485	.016485
		STD1	500.000	528.547	-28.5467
		STD2	1000.00	1043.91	-43.9064

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
ZR	349.600	STD0	.000000	-.051376	.051376
		STD1	500.000	504.777	-4.77676
		STD2	1000.00	968.488	31.5117

CorCoef: 0.99970

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SI	288.158	STD0	.000000	-.011091	.011091
		STD1	500.000	502.217	-2.21655
		STD2	1000.00	995.567	4.43317

CorCoef: 0.99999

Method: TRACE1 Sample Name: IVICV Operator: LCM
Run Time: 10/19/07 12:49:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	5150.830	405.8750	Q424.5052	Q421.4258	41.62215	41.58692	4770.988
#1	5137.660	403.8894	Q426.4645	Q421.4352	41.63348	41.75377	4775.733
#2	5163.999	407.8606	Q422.5460	Q421.4165	41.61082	41.42008	4766.242
Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	5000.000	400.0000	400.0000	400.0000	40.00000	40.00000	5000.000
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	404.8460	Q429.6935	404.3271	5071.269	416.6272	4982.172	412.1659
#1	405.5372	Q430.5124	403.9713	5084.399	414.7342	4992.374	412.5844
#2	404.1547	Q428.8746	404.6829	5058.137	418.5202	4971.969	411.7473
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	400.0000	400.0000	400.0000	5000.000	400.0000	5000.000	400.0000
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	413.9097	4765.225	412.7251	401.2457	9939.092	403.0319	414.5135
#1	413.2251	4772.863	413.5931	399.4310	10068.01	404.0932	414.5480
#2	414.5943	4757.585	411.8571	403.0604	9810.168	401.9707	414.4790
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	400.0000	5000.000	400.0000	400.0000	10000.00	400.0000	400.0000
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q420.0792	Q425.9549	405.8979	409.5761	406.2548	408.4775	414.4455
#1	419.4968	Q425.9068	406.7962	410.5079	405.9688	407.6929	412.6576
#2	Q420.6617	Q426.0030	404.9996	408.6443	406.5407	409.2622	416.2333
Errors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	400.0000	400.0000	400.0000	400.0000	400.0000	400.0000	
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	417.7176	418.1218	410.0264	Q6.495317	Q5.722240	Q126.4183
#1	415.7720	414.6657	413.0564	Q6.273926	Q1.617737	Q128.0861
#2	419.6633	421.5779	406.9963	Q6.716709	Q9.826743	Q124.7504
Errors	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Fail	QC Fail
Value				400.0000	400.0000	400.0000
Range				5.000000	5.000000	5.000000

Method: TRACE1 Sample Name: IBICB Operator: LCM
Run Time: 10/19/07 12:58:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	7.411889	.1613694	-2.27347	.1992336	-.205160	.1970332	22.95368
#1	10.74370	1.140084	-4.07391	.1911462	-.260030	.2352930	19.71337
#2	4.080076	-.817345	-.473024	.2073210	-.150289	.1587735	26.19399
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	.6913606	.4564642	.8136828	18.87920	-.357301	5.399612	.1961686
#1	.9045500	.7739196	.6451423	16.43193	-.381646	3.819614	.1567979
#2	.4781712	.1390088	.9822234	21.32646	-.332955	6.979611	.2355392
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-.256485	15.89236	.5059081	-.111470	198.5606	1.000805	1.026752
#1	-.703862	13.24522	-.159059	.2342039	116.7204	-.886149	.8150422
#2	.1908919	18.53950	1.170875	-.457145	280.4008	2.887759	1.238462
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	5000.000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-.139051	1.790819	1.310254	-.201080	.1955933	.1978459	3.141334
#1	-.137825	2.224522	1.650071	-.688646	.2109298	.1648382	3.074269
#2	-.140277	1.357116	.9704374	.2864870	.1802568	.2308537	3.208400
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	20.00000	5.000000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-2.10706	4.153262	-1.31819	2.696785	18.53603	4.091685
#1	-2.11005	4.058814	-2.26839	6.314094	35.16688	5.781573
#2	-2.10407	4.247711	-.367980	-.920523	1.905183	2.401797
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: CVCCV Operator: LCM
Run Time: 10/19/07 13:07:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	51272.86	507.7316	506.7069	505.0543	49.03049	491.5057	98207.90
#1	51240.46	509.6771	507.1513	504.3467	49.05111	491.7813	98388.91
#2	51305.25	505.7861	506.2626	505.7618	49.00987	491.2301	98026.89
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000
Elem	CR	CO	CU	FE	PB	MG	MN
Avge	491.9981	492.0442	511.0192	48960.58	496.0151	98494.75	496.0374
#1	492.2882	492.2788	509.5091	49019.94	496.7659	98562.58	496.1754
#2	491.7081	491.8096	512.5294	48901.21	495.2644	98426.93	495.8994
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000
Elem	NI	K	SE	AG	NA	TL	V
Avge	489.6309	24809.24	508.4094	514.2568	99473.27	508.4172	498.1053
#1	491.2108	24753.63	505.9451	514.2812	99527.41	506.7633	497.3333
#2	488.0508	24864.85	510.8737	514.2324	99419.13	510.0710	498.8772
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000
Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q563.3185	509.6566	497.0077	499.3188	500.1824	501.5911	494.0638
#1	Q564.6015	509.1444	494.4904	498.8196	498.9580	501.2102	490.8400
#2	Q562.0356	510.1689	499.5249	499.8179	501.4068	501.9719	497.2876
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	
Elem	2/PB	1/SE	2/SE	TE	ZR	SI	
Avge	496.9904	510.8137	507.2067	509.0127	471.9125	527.4880	
#1	499.7284	507.5640	505.1352	511.3636	458.4598	529.5009	
#2	494.2523	514.0634	509.2783	506.6618	485.3653	525.4752	
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	
Value				500.0000	500.0000	500.0000	
Range				10.00000	10.00000	10.00000	

Method: TRACE1 Sample Name: BCCCB Operator: LCM
Run Time: 10/19/07 13:17:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	2.694288	.7250750	-2.53133	.0599333	-.114286	.1078213	33.27053
#1	2.375786	-2.09237	-2.25623	.0403159	-.151827	.0079774	33.89708
#2	3.012790	3.542522	-2.80643	.0795507	-.076745	.2076653	32.64399
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	.8073811	.7019230	.6473240	12.42030	-.565604	19.78198	.0624389
#1	.2466388	.0882491	.8297691	7.666256	-.089894	16.01978	.0192967
#2	1.368123	1.315597	.4648789	17.17434	-1.04131	23.54418	.1055811
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-.482615	9.807291	-.257787	.7453327	102.5958	.6045603	.2412911
#1	-.663818	2.392575	.7976412	.5591164	-17.0101	-1.80629	-.448200
#2	-.301413	17.22201	-1.31321	.9315489	222.2017	3.015413	.9307817
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-.204890	1.664196	2.137251	3.874726	.0811523	.3354307	5.495512
#1	-.267552	1.266746	2.702790	2.192922	.0644654	.0985870	2.880184
#2	-.142228	2.061645	1.571713	5.556531	.0978392	.5722744	8.110840
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-3.59659	5.321833	-3.04796	7.660559	-21.3910	5.488716
#1	-1.57536	5.051956	-1.32986	4.005550	-37.0608	3.819317
#2	-5.61782	5.591709	-4.76606	11.31557	-5.72130	7.158116
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: PQL Operator: LCM
Run Time: 10/19/07 13:26:34
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	196.4774	19.26506	Q15.86649	5.110235	1.789596	6.049934	965.5064
#1	196.5886	20.32069	16.03477	5.108201	1.757141	6.186790	971.2246
#2	196.3662	18.20943	Q15.69820	5.112268	1.822052	5.913079	959.7883
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	200.0000	20.00000	20.00000	5.000000	2.000000	6.000000	1000.000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	5.339398	5.146627	10.45069	146.6831	10.10644	256.3388	4.975668
#1	5.777744	5.414330	10.54603	151.1468	10.99756	259.1390	5.029792
#2	4.901053	4.878924	10.35536	142.2194	9.215320	253.5386	4.921544
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.000000	5.000000	10.00000	150.0000	10.00000	250.0000	5.000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	10.36689	243.1468	18.42061	5.217061	2504.894	31.77907	9.945824
#1	9.575570	247.2693	20.01008	5.520840	2450.729	35.85258	10.17554
#2	11.15822	239.0244	16.83115	4.913283	2559.059	27.70557	9.716109
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.00000	250.0000	20.00000	5.000000	2500.000	30.00000	10.00000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	21.10595	17.79109	Q6.231812	26.01653	5.064382	25.07011	12.94099
#1	21.10418	Q18.28101	Q6.384399	28.23778	5.058983	25.33565	16.05365
#2	21.10772	17.30118	Q6.079224	23.79527	5.069780	24.80455	9.828337
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	NOCHECK
Value	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	8.688638	22.62022	16.32029	6.656876	-14.9898	59.04798
#1	8.468986	24.79141	17.61889	9.585832	-17.4240	59.54993
#2	8.908289	20.44902	15.02169	3.727920	-12.5556	58.54603
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						50.00000
Range						20.00000

Method: TRACE1 Sample Name: IAICSAI Operator: LCM
Run Time: 10/19/07 13:36:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	489815.1	-1.53045	2.386485	.8414729	.3091435	Q6.267483	503103.3
#1	490173.6	-3.60431	2.520474	.8299021	.2337394	Q6.430366	504008.9
#2	489456.5	.5434189	2.252496	.8530437	.3845475	Q6.104599	502197.8
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	500000.0	.0000000	.0000000	.0000000	.0000000	.0000000	500000.0
Range	100000.0	10.00000	10.00000	2.500000	1.000000	5.000000	100000.0

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	Q2.539025	Q3.653552	2.532718	190942.4	4.814826	493478.4	Q12.16010
#1	Q2.855525	Q3.851147	2.490137	190874.4	3.981325	493337.9	Q12.07321
#2	2.222525	Q3.455957	2.575299	191010.4	Q5.648327	493619.0	Q12.24698
Errors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.0000000	.0000000	.0000000	200000.0	.0000000	500000.0	.0000000
Range	2.500000	2.500000	5.000000	40000.00	5.000000	100000.0	2.500000

Elem	NI	K	SE	AG	NA	TL	V
Avge	3.783907	9.243811	2.230016	.1716598	199.9602	-4.08514	1.108572
#1	3.977364	5.638466	2.132471	.3034522	150.3748	-3.27552	.9162614
#2	3.590451	12.84915	2.327561	.0398673	249.5457	-4.89476	1.300882
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q24.63103	4.139413	.4615512	1.990557	Q4.255941	1.354735	-13.5050
#1	Q24.26525	4.941014	.9097882	2.830931	Q4.237734	1.333791	-19.9063
#2	Q24.99680	3.337812	.0133142	1.150182	Q4.274148	1.375679	-7.10376
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	7.500000	2.500000	12.50000	2.500000	12.50000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	13.97434	10.43406	-1.87255	-19.6076	5.208679	Q36.24085
#1	15.92469	11.06717	-2.33542	-18.0207	-.908531	Q34.92940
#2	12.02399	9.800946	-1.40968	-21.1946	11.32589	Q37.55229
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value						.0000000
Range						25.00000

Method: TRACE1 Sample Name: IBICSABI Operator: LCM
Run Time: 10/19/07 13:45:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	499347.3	630.9446	101.5700	530.6531	489.4934	956.6928	508340.2
#1	499988.9	634.7957	102.2707	530.7858	489.4831	958.5511	510453.4
#2	498705.7	627.0936	100.8692	530.5204	489.5036	954.8343	506227.2
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	600.0000	100.0000	500.0000	500.0000	1000.000	500000.0
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	489.4399	480.2218	540.4475	194314.1	53.38931	500353.4	508.4121
#1	491.0784	480.5428	542.4526	194775.8	53.59281	501861.0	509.7428
#2	487.8015	479.9008	538.4423	193852.4	53.18579	498845.9	507.0813
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	200000.0	50.00000	500000.0	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	950.9114	5644.785	58.25973	217.4483	10793.21	94.65854	498.8940
#1	952.1131	5644.888	Q61.14891	217.6768	10885.17	90.69453	498.9762
#2	949.7096	5644.681	55.37056	217.2198	10701.25	98.62254	498.8118
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	5000.000	50.00000	200.0000	10000.00	100.0000	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	961.5533	1047.110	1007.217	1024.763	518.9928	995.7850	32.99658
#1	961.9526	1048.474	1007.987	1025.239	519.6014	996.9507	33.40521
#2	961.1540	1045.746	1006.447	1024.288	518.3841	994.6195	32.58795
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1000.000	1000.000	1000.000	1000.000	500.0000	1000.000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	63.58525	71.63203	51.57320	177.7364	Q185.8064	Q1371.010
#1	63.68623	72.04953	55.69823	174.2906	Q188.0369	Q1376.316
#2	63.48428	71.21454	47.44817	181.1823	Q183.5758	Q1365.705
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Fail
Value				200.0000	400.0000	1000.000
Range				20.00000	20.00000	20.00000

Method: TRACE1 Sample Name: LR Operator: LCM
Run Time: 10/19/07 13:54:43
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	243.0812	5110.460	2039.707	10029.42	491.0628	2002.941	199.7262
#1	195.4816	5102.633	2036.597	10005.22	489.1678	2003.387	160.0646
#2	290.6807	5118.287	2042.816	10053.61	492.9578	2002.495	239.3878
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value		5000.000	2000.000	10000.00	500.0000	2000.000	
Range		5.000000	5.000000	5.000000	5.000000	5.000000	

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	10038.86	9999.291	10267.26	508731.4	20190.18	155.1269	9804.668
#1	10041.21	9998.508	10217.15	508907.6	20176.01	115.1342	9806.029
#2	10036.50	10000.07	10317.37	508555.3	20204.36	195.1197	9803.306
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
Value	10000.00	10000.00	10000.00	500000.0	20000.00		10000.00
Range	5.000000	5.000000	5.000000	5.000000	5.000000		5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	7450.279	27.53662	2036.082	1019.665	464.9414	2030.149	10190.63
#1	7451.096	25.27970	2033.708	1017.413	435.4765	2025.108	10141.51
#2	7449.462	29.79353	2038.456	1021.917	494.4063	2035.190	10239.74
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	7500.000		2000.000	1000.000		2000.000	10000.00
Range	5.000000		5.000000	5.000000		5.000000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q20120.55	5023.678	9869.751	10034.02	2002.125	10059.13	20097.82
#1	Q20076.58	5020.927	9849.952	10026.53	2003.790	10014.36	20053.31
#2	Q20164.52	5026.429	9889.550	10041.52	2000.460	10103.90	20142.33
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	10000.00	5000.000	10000.00	10000.00	2000.000	10000.00	
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	20236.37	2021.275	2043.485	-38.2744	71.93686	11505.27
#1	20237.36	2027.432	2036.845	-45.7517	97.66226	11454.15
#2	20235.37	2015.117	2050.126	-30.7971	46.21146	11556.39
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value						
Range						

Method: TRACE1 Sample Name: CVCCV3 Operator: LCM
Run Time: 10/19/07 14:09:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	52218.02	517.2732	515.1757	517.1566	50.39561	502.7374	99276.52
#1	52288.56	516.9115	518.5594	517.9303	50.40291	503.3088	99415.68
#2	52147.47	517.6350	511.7919	516.3829	50.38831	502.1660	99137.35
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	503.6595	503.6080	517.7247	50126.78	511.2222	100186.5	508.4788
#1	504.8315	504.9244	518.5620	50223.11	512.9731	100381.9	508.9955
#2	502.4875	502.2915	516.8874	50030.45	509.4712	99991.02	507.9620
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	498.6892	Q57356.26	517.1495	524.5823	100436.8	514.8721	511.3645
#1	498.6654	Q57318.04	520.8450	525.7220	100506.0	515.1027	512.1730
#2	498.7130	Q57394.48	513.4540	523.4426	100367.6	514.6415	510.5559
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	540.7828	522.2391	514.1923	511.4805	510.2182	510.7517	506.8526
#1	542.5458	524.2504	512.5435	514.2510	511.2343	511.3360	508.8846
#2	539.0200	520.2279	515.8410	508.7100	509.2022	510.1675	504.8205
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	513.4065	512.8352	519.3063	513.1860	460.8759	536.4467
#1	515.0170	515.5632	523.4856	519.9722	450.5131	538.8395
#2	511.7960	510.1071	515.1269	506.3999	471.2386	534.0540
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB3 Operator: LCM
Run Time: 10/19/07 14:19:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	32.51580	-.403041	-1.60795	.4013962	-.190836	.3107876	84.68817
#1	43.25143	-.548286	-2.79128	.4967087	-.141063	.2917848	107.8234
#2	21.78016	-.257795	-.424609	.3060836	-.240610	.3297903	61.55299
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	1.084321	.9492161	1.543428	41.68363	1.493554	64.03949	.4331382
#1	1.104742	.8204911	1.622917	45.94772	.7335322	86.95070	.5449311
#2	1.063899	1.077941	1.463939	37.41954	2.253575	41.12828	.3213453
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	.9672983	69.20586	.3237348	.1379221	131.0258	1.887437	.7246004
#1	1.002758	81.38296	-2.96413	-.061324	79.09541	.1189980	.7256346
#2	.9318383	57.02877	3.611597	.3371683	182.9562	3.655876	.7235663
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	1.510364	3.226062	3.305184	.5675926	.3035450	.5007709	3.162969
#1	1.637555	3.302246	4.104217	-.379805	.4083974	.6183457	4.206381
#2	1.383172	3.149879	2.506151	1.514991	.1986926	.3831960	2.119557
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.6584095	2.796611	-.913139	5.659175	1.103647	6.787651
#1	-1.00333	1.538732	-5.21591	2.758835	6.993623	6.100842
#2	2.320147	4.054490	3.389626	8.559515	-4.78633	7.474459
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: BLK100908 Operator: LCM
Run Time: 10/19/07 14:28:17
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	-5.96897	2.362672	-.893873	.1199737	-.086793	-.126741	46.37454
#1	-6.67927	1.977866	-.668960	.0894024	-.013377	-.222731	46.04187
#2	-5.25868	2.747478	-1.11879	.1505449	-.160210	-.030752	46.70719
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.0000	10.00000	10.00000	2.500000	1.000000	3.000000	500.0000
Low	-100.000	-10.0000	-10.0000	-2.50000	-1.00000	-3.00000	-500.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	2.279284	-.720601	.9146526	26.99015	.2813779	7.342745	.2532879
#1	H2.934465	-.326684	1.129398	24.98396	.3585685	5.376821	.2499314
#2	1.624102	-1.11452	.6999075	28.99634	.2041874	9.308668	.2566444
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.500000	2.500000	5.000000	75.00000	5.000000	125.0000	2.500000
Low	-2.50000	-2.50000	-5.00000	-75.0000	-5.00000	-125.000	-2.50000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-4.92429	32.11740	2.619597	.1829734	616.5077	-5.36424	.9030823
#1	L-5.96704	51.66732	1.373040	.8627909	854.0007	-3.84328	2.114496
#2	-3.88154	12.56749	3.866155	-.496844	379.0147	-6.88519	-.308331
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000
Low	-5.00000	-125.000	-10.0000	-2.50000	-1250.00	-15.0000	-5.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	2.356304	2.776384	H2.762768	H26.40737	.0748019	.7814956	4.568128
#1	2.607688	3.621559	H3.608358	H25.65404	.0620655	.9111392	7.388603
#2	2.104919	1.931209	1.917178	H27.16071	.0875382	.6518518	1.747653
Errors	LC Pass	LC Pass	LC High	LC High	LC Pass	LC Pass	NOCHECK
High	10.00000	7.500000	2.500000	12.50000	5.000000	12.50000	
Low	-10.0000	-7.50000	-2.50000	-12.5000	-5.00000	-12.5000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-1.86244	-13.5042	10.68107	-20.1848	-7.52513	9.670464
#1	-3.15689	-11.3103	7.714305	-15.1262	4.352913	10.39262
#2	-.567991	-15.6980	13.64784	-25.2434	-19.4032	8.948306
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						50.00000
Low						-50.0000

Method: TRACE1 Sample Name: BKS100908 Operator: LCM
Run Time: 10/19/07 14:37:53
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	10138.08	101.8114	97.02776	1050.688	51.45537	102.6106	9572.654
#1	10149.70	101.3905	96.01365	1052.484	51.16665	102.3068	9546.548
#2	10126.45	102.2323	98.04188	1048.892	51.74408	102.9143	9598.762
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	12000.00	120.0000	120.0000	1200.000	60.00000	120.0000	12000.00
Low	8000.000	80.00000	80.00000	800.0000	40.00000	80.00000	8000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	522.2739	504.7347	522.4416	10136.70	1003.538	9549.082	1033.077
#1	521.2612	504.2105	521.8223	10123.40	999.9317	9524.931	1031.835
#2	523.2866	505.2589	523.0610	10150.00	1007.145	9573.234	1034.319
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0000	600.0000	600.0000	12000.00	1200.000	12000.00	1200.000
Low	400.0000	400.0000	400.0000	8000.000	800.0000	8000.000	800.0000

Elem	NI	K	SE	AG	NA	TL	V
Avge	503.5072	9462.495	94.07729	103.2263	9991.699	93.35925	528.5283
#1	503.3268	9511.329	93.81776	103.3606	10147.33	94.03503	526.8239
#2	503.6876	9413.661	94.33683	103.0920	9836.072	92.68347	530.2327
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0000	12000.00	120.0000	120.0000	12000.00	120.0000	600.0000
Low	400.0000	8000.000	80.00000	80.00000	8000.000	80.00000	400.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	1018.937	954.6105	522.2671	535.8866	1034.395	2054.606	1003.519
#1	1016.205	953.8544	521.1704	536.7496	1035.491	2047.220	1004.206
#2	1021.669	955.3665	523.3638	535.0235	1033.300	2061.992	1002.832
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	1200.000	1200.000	600.0000	600.0000	1200.000	2400.000	
Low	800.0000	800.0000	400.0000	400.0000	800.0000	1600.000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	1003.548	78.90441	101.6633	346.2921	402.2574	L7764.771
#1	997.7944	77.45148	102.0005	346.5313	393.5102	L7768.793
#2	1009.301	80.35735	101.3261	346.0528	411.0046	L7760.750
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Low
High						12000.00
Low						8000.000

Method: TRACE1 Sample Name: S 710114-001-001-1/1 Operator: LCM
Run Time: 10/19/07 14:47:08
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	38931.28	7.203067	11.75602	68.18907	.5916775	16.65596	1734.275
#1	38871.78	6.215140	13.64643	68.14183	.5631317	16.82800	1736.592
#2	38990.78	8.190994	9.865616	68.23632	.6202233	16.48392	1731.958
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	368.0773	18.30973	256.2141	247878.4	226.4489	1923.139	848.1040
#1	368.0354	18.14852	254.9165	247938.7	225.7372	1931.776	848.5456
#2	368.1192	18.47094	257.5118	247818.2	227.1607	1914.502	847.6624
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	92.93993	846.1884	12.37354	3.829338	246.2034	-6.35415	561.9441
#1	94.13032	843.9375	14.41678	4.010852	275.1215	-2.22569	559.8118
#2	91.74954	848.4392	10.33030	3.647825	217.2854	-10.4826	564.0764
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	329.6514	1.758610	5.614322	26.22916	60.37247	13242.87	223.6328
#1	328.8193	1.253295	6.617318	26.32919	60.31214	13210.45	225.5234
#2	330.4836	2.263926	4.611325	26.12913	60.43280	13275.28	221.7422
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	227.8566	9.276886	13.92134	-7.90875	120.3552	681.8725
#1	225.8436	12.45090	15.39919	-2.87950	114.6298	679.8799
#2	229.8696	6.102870	12.44349	-12.9380	126.0807	683.8651
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SP710114-001-001-1/1 Operator: LCM
Run Time: 10/19/07 14:56:23
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50203.52	7.748546	22.00592	198.3592	5.698972	29.57830	2768.369
#1	52318.66	8.267360	23.58657	206.5942	5.996836	30.83520	2883.347
#2	48088.38	7.229732	20.42526	190.1243	5.401107	28.32140	2653.391
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	435.0642	69.62344	315.8113	263850.9	334.5615	3163.876	1046.350
#1	453.7632	72.62820	331.2249	275279.8	349.0237	3300.323	1091.010
#2	416.3651	66.61868	300.3977	252422.0	320.0993	3027.428	1001.690
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	171.1616	2023.269	22.48408	16.14092	1227.997	7.243218	641.0803
#1	178.1596	2114.674	24.50994	16.56761	1326.569	11.41428	671.6655
#2	164.1636	1931.864	20.45821	15.71424	1129.425	3.072155	610.4950
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	498.7919	94.23994	49.82820	72.85704	201.9900	14168.56	319.5533
#1	518.1630	98.39265	51.29390	74.36010	210.8214	14787.05	333.5941
#2	479.4208	90.08722	48.36250	71.35399	193.1586	13550.08	305.5126
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	342.0651	10.95304	28.24921	17.87093	178.0618	770.4557
#1	356.7379	11.56631	30.98140	14.04889	187.4992	807.9027
#2	327.3922	10.33977	25.51702	21.69296	168.6243	733.0086
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SD710114-001-001-1/1 Operator: LCM
Run Time: 10/19/07 15:05:39
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	52421.88	24.14975	21.52653	204.7152	5.702839	29.60398	2762.916
#1	52427.14	25.74664	23.34267	205.0855	5.628092	29.33590	2761.579
#2	52416.62	22.55286	19.71038	204.3450	5.777586	29.87206	2764.254
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	450.5005	70.48108	322.1184	268669.1	358.6540	3131.703	1039.691
#1	451.4751	70.21529	323.0486	268767.3	359.8488	3137.654	1040.372
#2	449.5259	70.74686	321.1882	268570.8	357.4592	3125.752	1039.010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	171.7336	2092.856	21.43686	20.68983	1234.880	-.220392	649.1572
#1	171.1141	2096.670	21.68472	20.38423	1177.873	1.126156	653.0263
#2	172.3531	2089.043	21.18900	20.99543	1291.887	-1.56694	645.2881
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	453.2570	95.59785	48.39420	75.84752	205.8985	14331.90	353.8542
#1	452.9752	94.98843	47.59351	75.11375	206.4753	14391.42	356.1589
#2	453.5389	96.20729	49.19488	76.58129	205.3216	14272.38	351.5495
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	361.0535	15.25658	24.52660	28.49242	176.5588	794.3029
#1	361.6933	15.73623	24.65856	27.27086	182.2220	792.9218
#2	360.4137	14.77692	24.39465	29.71397	170.8956	795.6840
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: PS710114-001-001-1/1 Operator: LCM
Run Time: 10/19/07 15:15:13
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	40540.77	91.51495	93.10135	90.38240	10.77765	37.57914	6590.840
#1	40945.25	89.77992	91.37465	91.02979	10.74341	37.97967	6618.223
#2	40136.28	93.24998	94.82804	89.73502	10.81190	37.17861	6563.456
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	389.6130	48.86512	291.2419	252077.5	307.3282	6913.116	939.0663
#1	393.3709	48.88164	294.0194	254474.0	309.1697	6931.271	948.1414
#2	385.8551	48.84860	288.4644	249681.0	305.4866	6894.961	929.9911
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	134.3444	5968.750	86.06566	11.40928	5385.416	93.76480	589.5349
#1	136.0496	5977.630	85.72363	12.20317	5347.588	95.29407	593.2332
#2	132.6392	5959.870	86.40768	10.61538	5423.244	92.23553	585.8365
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	407.3829	72.47296	35.16983	128.9933	81.91786	13346.65	305.2505
#1	410.2252	70.64632	34.71934	128.5683	82.45089	13475.98	301.1536
#2	404.5406	74.29959	35.62032	129.4184	81.38483	13217.32	309.3474
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	308.3667	79.45337	89.37140	493.5966	629.6427	5761.214
#1	313.1774	72.91406	92.12798	495.5748	625.9594	5779.960
#2	303.5559	85.99268	86.61482	491.6184	633.3260	5742.468
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SE710114-001-001-1/1 Operator: LCM
Run Time: 10/19/07 15:24:28
Comment: UG/L 50
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	7972.147	2.279632	1.349425	13.81601	-.040842	3.588557	382.9327
#1	7975.832	1.191058	-.686474	13.81901	-.059794	3.638966	383.2049
#2	7968.462	3.368205	3.385325	13.81300	-.021890	3.538149	382.6606
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	74.68977	4.331983	52.30541	50372.12	45.22613	398.0717	173.2816
#1	74.44910	4.258263	52.00681	50441.60	44.65900	397.5717	173.2768
#2	74.93044	4.405703	52.60400	50302.63	45.79326	398.5717	173.2863
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	18.87474	174.4725	1.894420	1.379727	94.03052	-1.09716	114.9757
#1	19.07030	175.8870	.4517660	1.716546	137.1296	-.270037	114.5810
#2	18.67917	173.0581	3.337074	1.042908	50.93138	-1.92428	115.3704
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	67.68368	1.439292	1.607973	6.167502	12.25455	2675.429	47.59595
#1	67.83359	1.862706	2.451307	7.262310	12.23701	2670.513	46.66719
#2	67.53379	1.015879	.7646391	5.072694	12.27208	2680.345	48.52470
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	44.04075	3.367500	1.157574	2.830785	23.79648	144.4444
#1	43.65438	1.889201	-.267258	3.176557	10.78158	144.3677
#2	44.42711	4.845799	2.582405	2.485012	36.81137	144.5211
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-002-002-1/1 Operator: LCM
Run Time: 10/19/07 15:33:43
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	77837.50	.6629682	9.880139	55.15408	.5916147	5.266754	792.5637
#1	79059.43	-1.68616	8.745722	56.04032	.7010965	5.371017	803.9581
#2	76615.56	3.012096	11.01456	54.26784	.4821329	5.162491	781.1694
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	360.4516	12.82513	141.5000	199696.5	52.15780	1005.264	553.8920
#1	365.9703	12.93499	143.8952	202545.7	51.78902	1020.729	561.9559
#2	354.9330	12.71527	139.1047	196847.2	52.52657	989.7991	545.8280
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	144.7806	537.5692	13.58755	1.183661	355.4996	-5.51669	419.0427
#1	146.7212	545.4517	12.29846	1.160543	398.5306	-8.26288	424.7473
#2	142.8401	529.6866	14.87663	1.206779	312.4686	-2.77049	413.3381
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	154.2679	1.976598	3.268450	8.142274	54.02795	9504.223	49.86362
#1	156.5401	1.499348	3.376421	6.377985	54.77422	9640.958	49.50320
#2	151.9956	2.453849	3.160480	9.906563	53.28167	9367.487	50.22404
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	53.30436	9.893961	15.43388	-2.85145	203.9512	917.7689
#1	52.93158	5.863037	15.51569	-5.05437	203.4243	935.9893
#2	53.67713	13.92488	15.35207	-.648537	204.4781	899.5485
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-003-003-1/1 Operator: LCM
Run Time: 10/19/07 15:42:58
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	30740.16	5.107496	7.838708	91.53426	.5748624	8.600884	1910.855
#1	30764.18	5.104585	10.43553	91.57659	.5799178	8.606642	1913.606
#2	30716.14	5.110408	5.241891	91.49193	.5698070	8.595125	1908.104
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	418.2535	22.38716	266.5800	241539.8	220.6241	2007.329	991.3709
#1	418.2916	22.74036	267.6453	241544.5	220.8725	2004.191	992.0879
#2	418.2154	22.03395	265.5148	241535.2	220.3758	2010.467	990.6539
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	90.66905	672.0256	9.647755	2.268192	286.5896	-13.2053	592.1465
#1	90.83096	676.4122	9.330236	2.679648	275.2660	-14.2862	594.6698
#2	90.50715	667.6390	9.965274	1.856737	297.9132	-12.1245	589.6231
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	291.5375	.2064451	5.181277	15.96973	90.68118	13377.71	220.1677
#1	292.5688	.0699768	5.446880	13.04198	90.66834	13432.63	223.0982
#2	290.5061	.3429134	4.915674	18.89747	90.69402	13322.78	217.2371
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	220.8519	5.858636	11.54177	-3.91286	116.2531	578.7087
#1	219.7592	6.777954	10.60584	.5882721	131.9038	579.8932
#2	221.9447	4.939319	12.47771	-8.41399	100.6024	577.5244
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-004-004-1/1 Operator: LCM
Run Time: 10/19/07 15:52:33
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	27739.76	-.676166	8.055783	138.0712	.4959031	6.772300	1606.967
#1	28035.66	-1.70179	9.057175	139.8994	.5897523	6.792980	1624.906
#2	27443.87	.3494587	7.054392	136.2429	.4020538	6.751619	1589.029
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	482.6019	28.48939	166.0131	246327.1	104.3124	2155.944	994.5966
#1	488.3463	28.75665	167.7805	249605.0	105.8227	2178.648	1007.091
#2	476.8574	28.22213	164.2456	243049.3	102.8021	2133.240	982.1024
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	95.77324	779.8859	11.35492	1.456359	217.2504	-10.5174	693.7647
#1	96.74801	797.2801	12.72738	1.618760	399.6608	-10.9092	702.9356
#2	94.79846	762.4918	9.982465	1.293958	34.83999	-10.1255	684.5939
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	272.1877	-1.72882	4.996369	7.353258	153.1603	15458.64	105.8765
#1	275.6566	-1.29606	4.943396	8.284317	154.9198	15670.80	107.5965
#2	268.7188	-2.16159	5.049343	6.422199	151.4008	15246.48	104.1566
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	103.5299	8.536396	12.76372	-11.1185	111.5391	547.4446
#1	104.9355	10.37232	13.90451	-13.3697	96.22723	573.9332
#2	102.1244	6.700471	11.62293	-8.86739	126.8509	520.9561
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: CVCCV3 Operator: LCM
Run Time: 10/19/07 16:05:00
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	52277.33	516.1312	509.3552	518.8152	49.94386	495.7360	98783.34
#1	52391.84	517.0485	508.5582	518.4401	50.10685	495.9018	98862.44
#2	52162.82	515.2139	510.1521	519.1902	49.78088	495.5703	98704.25
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	498.0170	501.1633	514.8478	49743.48	509.1408	99552.86	505.7702
#1	498.1296	501.4430	517.6945	49749.46	509.9980	99612.05	505.6295
#2	497.9043	500.8837	512.0012	49737.52	508.2836	99493.68	505.9108
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	495.8521	25525.13	520.1559	522.4734	100882.8	512.1929	509.5107
#1	496.2955	25556.66	520.9475	522.3767	101145.7	509.0820	510.8622
#2	495.4087	25493.60	519.3644	522.5702	100619.8	515.3039	508.1593
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q570.9855	509.5061	509.7683	512.2028	509.1805	507.7667	502.6731
#1	Q573.3970	512.0034	507.6508	509.7902	509.7346	510.4011	505.9287
#2	Q568.5740	507.0088	511.8859	514.6152	508.6264	505.1322	499.4174
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	512.3741	518.4614	521.0029	519.4211	517.7354	536.4279
#1	512.0322	522.2704	520.2857	520.2018	532.8871	536.5098
#2	512.7161	514.6523	521.7200	518.6406	502.5836	536.3460
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB3 Operator: LCM
Run Time: 10/19/07 16:14:15
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	9.174650	-.023348	.0755104	.2187828	-.221229	.2528636	88.78430
#1	6.669231	-.935293	.2761656	.1853746	-.334218	.3290683	87.79727
#2	11.68007	.8885983	-.125145	.2521911	-.108241	.1766588	89.77134
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	.4188408	.4324620	2.042637	26.15353	-.235137	37.24500	.1897850
#1	.0557183	.1736923	2.259716	24.91196	.5186065	30.27686	.1443291
#2	.7819633	.6912318	1.825559	27.39509	-.988881	44.21314	.2352408
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	1.095155	35.93090	.4465692	-.116065	96.06592	.2591623	-.016093
#1	1.288501	30.79686	.8305503	-.144802	23.91133	-2.05087	-.387577
#2	.9018096	41.06493	.0625881	-.087328	168.2205	2.569196	.3553909
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	.7377543	.7109488	2.118117	.4792156	.1855093	.4258098	.0303000
#1	.6405184	.5651345	2.525831	.6016159	.1570373	.3586830	-.409599
#2	.8349901	.8567632	1.710403	.3568153	.2139814	.4929366	.4701993
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-.368298	4.917939	-1.78956	6.782826	18.17265	7.762365
#1	.9822614	6.830946	-2.17009	6.234529	34.48924	7.917308
#2	-1.71886	3.004931	-1.40902	7.331124	1.856065	7.607422
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: S 710114-005-005-1/1 Operator: LCM
Run Time: 10/19/07 16:23:31
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	31384.65	-1.07739	11.76088	50.64063	.3944095	7.294105	1651.048
#1	31877.08	.9260998	11.42690	51.52980	.4134983	7.266561	1677.977
#2	30892.20	-3.08089	12.09485	49.75147	.3753207	7.321650	1624.118
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	406.8395	19.20032	280.1435	247133.4	138.1467	1822.993	601.8727
#1	414.2921	19.60748	284.6494	251730.4	139.8262	1853.927	613.0403
#2	399.3868	18.79317	275.6376	242536.4	136.4673	1792.059	590.7050
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	75.95140	729.7188	13.23413	1.005223	363.3387	-7.99045	619.2610
#1	77.19768	746.9832	14.87131	.9606453	439.1754	-6.13491	627.3867
#2	74.70513	712.4542	11.59694	1.049800	287.5020	-9.84599	611.1354
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	172.6894	-.251737	5.363379	9.339900	55.76932	14201.98	136.9583
#1	176.1950	.4018948	5.639377	9.157280	56.87314	14448.53	137.9984
#2	169.1839	-.905369	5.087382	9.522520	54.66549	13955.44	135.9182
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	138.7405	7.387147	16.15719	-8.63359	118.3895	625.7463
#1	140.7396	7.812938	18.40005	-4.42427	127.5528	643.0811
#2	136.7413	6.961355	13.91433	-12.8429	109.2263	608.4116
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-006-006-1/1 Operator: LCM
Run Time: 10/19/07 16:32:47
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	42503.23	-1.25600	12.53641	61.84734	.5433930	7.131967	2566.260
#1	42688.78	-1.58532	11.61254	62.27474	.5741162	7.305916	2578.233
#2	42317.68	-.926681	13.46028	61.41994	.5126698	6.958017	2554.287
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	387.0539	17.50479	142.9965	256333.6	54.45035	1909.921	711.7960
#1	388.0541	17.66415	143.9133	257455.9	55.02631	1920.427	715.1362
#2	386.0537	17.34543	142.0797	255211.3	53.87439	1899.415	708.4557
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	84.27699	866.0010	14.63419	1.357782	277.2458	-11.4918	604.3204
#1	84.77316	874.6964	15.25888	1.143744	362.3614	-11.3590	607.1893
#2	83.78082	857.3055	14.00950	1.571821	192.1303	-11.6246	601.4515
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	176.8451	1.453429	2.987466	8.040029	80.01765	13352.20	55.00306
#1	176.8275	2.018635	3.096175	6.897314	80.37317	13396.51	54.77687
#2	176.8627	.8882241	2.878758	9.182745	79.66214	13307.89	55.22926
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	54.17355	10.98551	16.45799	-6.45434	133.7175	674.5466
#1	55.15068	13.72658	16.02450	-7.03932	130.8559	679.7598
#2	53.19643	8.244443	16.89149	-5.86935	136.5791	669.3335
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-007-007-1/1 Operator: LCM
Run Time: 10/19/07 16:42:23
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	72201.78	-.401666	6.208707	44.02537	.5290422	5.028397	417.2275
#1	74042.62	1.149006	7.301991	45.15786	.5862116	5.359057	430.8886
#2	70360.94	-1.95234	5.115422	42.89287	.4718730	4.697737	403.5663
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	307.8510	15.29947	83.57552	179926.6	17.55253	1125.559	447.0995
#1	316.7257	15.76188	86.39874	184919.4	18.21284	1158.175	459.8966
#2	298.9763	14.83706	80.75230	174933.8	16.89222	1092.944	434.3024
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	180.6039	568.9214	11.51248	.6288779	270.6213	-8.91635	398.7211
#1	185.2958	585.1828	10.78471	.9266173	280.7612	-9.42970	410.8983
#2	175.9120	552.6600	12.24026	.3311385	260.4815	-8.40300	386.5438
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	107.3687	.7659223	3.042298	5.963054	27.79079	9886.177	15.39846
#1	110.8975	.7791261	3.276333	6.316003	28.52385	10197.94	15.67292
#2	103.8399	.7527185	2.808262	5.610106	27.05774	9574.411	15.12398
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	18.62916	8.267203	13.13467	-6.05539	140.0893	596.2745
#1	19.48235	2.079084	15.13715	-4.42149	157.7780	613.2539
#2	17.77598	14.45532	11.13220	-7.68929	122.4005	579.2950
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-008-008-1/1 Operator: LCM
Run Time: 10/19/07 16:51:38
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	64130.05	-2.96875	9.112968	33.78739	.6075744	5.392998	345.5831
#1	63977.54	-1.61644	9.003386	33.68995	.6802129	5.015587	343.2924
#2	64282.56	-4.32106	9.222552	33.88483	.5349360	5.770409	347.8737
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	342.5937	12.07765	84.15009	214384.7	22.53446	982.0338	445.6743
#1	342.2159	12.26049	83.80074	214103.8	21.77836	976.6896	444.8526
#2	342.9714	11.89480	84.49943	214665.5	23.29057	987.3779	446.4961
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	134.0729	626.2103	14.72843	.6617769	94.97714	-9.34481	441.5920
#1	134.5042	627.8016	14.84549	.9392783	146.5470	-8.85676	440.7875
#2	133.6416	624.6190	14.61138	.3842756	43.40729	-9.83286	442.3965
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	117.0684	.1177146	3.688180	5.650179	31.87215	10087.75	20.94377
#1	116.9501	.6379197	3.578004	5.338475	31.79960	10079.86	19.01083
#2	117.1868	-.402491	3.798357	5.961883	31.94470	10095.64	22.87671
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	23.32923	10.45293	16.86574	-6.22396	140.6972	632.6875
#1	23.16141	10.09426	17.22067	-1.35101	130.8490	631.0269
#2	23.49705	10.81161	16.51081	-11.0969	150.5455	634.3480
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-009-009-1/1 Operator: LCM
Run Time: 10/19/07 17:00:54
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	97039.53	-.245803	4.139895	30.80366	.4435637	3.597660	304.0184
#1	95408.45	-1.25506	5.191793	30.32296	.4979795	3.698148	304.2833
#2	98670.62	.7634568	3.087998	31.28437	.3891479	3.497172	303.7536
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	268.9988	8.848649	117.8766	133417.2	14.14439	691.5424	324.2975
#1	264.4548	8.923989	114.5275	131291.9	13.34350	682.9787	319.3546
#2	273.5428	8.773309	121.2257	135542.5	14.94529	700.1060	329.2404
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	210.0883	469.0896	10.71735	.5153863	230.8874	-9.20706	275.7876
#1	206.3060	463.8897	9.587149	.2163309	267.7015	-5.67758	270.1286
#2	213.8707	474.2896	11.84755	.8144417	194.0733	-12.7365	281.4467
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	97.49614	2.308890	2.071568	2.554610	27.16653	6929.513	9.894325
#1	95.99619	2.093564	2.714008	4.747808	26.69586	6782.302	11.22425
#2	98.99609	2.524217	1.429127	.3614111	27.63719	7076.723	8.564400
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	16.26894	9.501850	11.32477	-.314598	152.1408	774.9160
#1	14.40260	9.796774	9.481991	-1.68018	157.7469	760.6163
#2	18.13529	9.206926	13.16755	1.050987	146.5347	789.2156
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-010-010-1/1 Operator: LCM
Run Time: 10/19/07 17:10:09
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	19032.50	-.730880	5.631585	97.28842	.3455532	5.691807	1174.798
#1	19341.99	.2187853	4.593190	98.94691	.3424301	5.511990	1194.955
#2	18723.01	-1.68055	6.669979	95.62993	.3486763	5.871624	1154.641
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	410.4532	27.57687	125.9342	207210.6	76.19629	1983.417	872.4106
#1	418.1582	28.28014	127.4261	210965.1	78.65530	2014.507	887.9843
#2	402.7482	26.87360	124.4423	203456.2	73.73728	1952.326	856.8370
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	84.82626	709.9145	6.516484	.6355908	241.5278	-9.14022	641.8220
#1	86.53374	723.8279	5.225897	.8131963	294.4084	-9.01264	652.8306
#2	83.11878	696.0013	7.807071	.4579852	188.6472	-9.26780	630.8134
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	216.5764	-1.01291	4.767088	6.347446	99.07330	15075.13	75.91223
#1	219.5112	-.085309	5.053629	5.917873	100.6809	15327.82	77.38341
#2	213.6417	-1.94050	4.480546	6.777019	97.46571	14822.44	74.44104
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	76.33791	2.336828	8.605885	-11.9566	103.8978	551.5310
#1	79.29084	.4075193	7.634636	-12.0547	96.06808	576.6470
#2	73.38496	4.266137	9.577133	-11.8584	111.7276	526.4150
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-011-011-1/1 Operator: LCM
Run Time: 10/19/07 17:19:44
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	26556.68	.2434053	9.966862	84.56866	.2949700	6.259902	2127.815
#1	26898.09	.7461491	10.76164	85.74849	.3477701	6.193211	2156.948
#2	26215.28	-.259338	9.172083	83.38884	.2421700	6.326593	2098.681
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	440.3951	26.07846	144.2898	229691.1	77.17635	2000.058	1211.555
#1	447.4564	26.21976	147.4996	233237.9	78.50980	2034.952	1229.253
#2	433.3339	25.93716	141.0801	226144.2	75.84291	1965.164	1193.857
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	88.00580	934.8759	8.854530	1.086476	277.9786	-9.58504	652.5077
#1	89.87049	949.4189	8.930524	1.393258	340.8836	-8.05327	665.9434
#2	86.14110	920.3329	8.778536	.7796930	215.0736	-11.1168	639.0721
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	225.2939	.6876011	4.229987	7.601798	66.68881	14089.51	76.69932
#1	229.0193	.0181854	4.288321	7.445307	67.75393	14373.73	78.65100
#2	221.5685	1.357017	4.171653	7.758289	65.62370	13805.29	74.74764
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	77.41443	3.526522	11.51808	-3.18260	132.4282	516.4519
#1	78.43883	6.433562	10.17856	-4.14067	140.8089	529.1277
#2	76.39002	.6194811	12.85761	-2.22453	124.0474	503.7760
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-012-012-1/1 Operator: LCM
Run Time: 10/19/07 17:29:00
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	22280.28	-1.32958	4.348931	53.29683	.1307377	7.491247	2146.290
#1	22385.76	-2.35202	5.569889	53.56498	.0039291	7.529469	2161.755
#2	22174.80	-.307143	3.127974	53.02867	.2575462	7.453026	2130.825
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	470.5190	24.74998	117.9477	245398.2	194.8604	1896.939	723.9263
#1	473.1538	24.93016	119.1821	246729.9	198.5287	1907.136	727.9679
#2	467.8842	24.56981	116.7132	244066.5	191.1920	1886.741	719.8846
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	74.49559	672.3018	9.588857	.6471309	-76.8295	-15.4460	766.6245
#1	75.15940	672.3564	8.947897	1.053173	-364.552	-14.8932	774.9437
#2	73.83177	672.2473	10.22982	.2410887	210.8926	-15.9989	758.3052
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	204.6582	-2.43561	4.138716	7.276103	52.67603	17730.60	192.0886
#1	205.4571	-3.84000	3.925090	7.680685	52.86331	17911.94	195.8366
#2	203.8593	-1.03122	4.352343	6.871521	52.48874	17549.27	188.3406
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	196.2458	4.805669	11.97991	-7.22982	121.1881	553.3724
#1	199.8743	4.104213	11.36919	-9.57065	162.5515	544.7210
#2	192.6172	5.507124	12.59062	-4.88899	79.82474	562.0239
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-013-013-1/1 Operator: LCM
Run Time: 10/19/07 17:38:15
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	20115.27	-1.50814	4.726157	34.58614	.3434556	9.679945	942.3978
#1	20091.15	-2.52484	4.779427	34.53622	.4427793	9.241879	937.6860
#2	20139.40	-.491441	4.672887	34.63606	.2441319	10.11801	947.1097
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	426.5698	17.43295	75.80850	316024.1	89.08714	1273.940	453.4763
#1	425.7861	17.05438	76.06842	315662.2	88.25699	1269.402	452.7337
#2	427.3536	17.81153	75.54859	316385.9	89.91730	1278.478	454.2188
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	49.02951	411.8440	15.13969	1.005147	348.6549	-13.3675	845.0562
#1	48.95013	413.2389	15.38199	.7078096	371.0766	-10.0067	845.0524
#2	49.10890	410.4490	14.89739	1.302484	326.2333	-16.7284	845.0599
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	136.5011	-2.47233	6.267621	8.404581	25.31683	18473.23	88.32313
#1	135.9664	-2.06331	5.797056	8.718390	25.28871	18477.00	89.67123
#2	137.0358	-2.88134	6.738186	8.090773	25.34494	18469.45	86.97502
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	89.46876	10.64980	17.38423	-4.30856	137.8224	668.7107
#1	87.54952	15.44018	15.35249	-3.42444	143.0955	673.2701
#2	91.38799	5.859417	19.41596	-5.19269	132.5493	664.1514
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-014-014-1/1 Operator: LCM
Run Time: 10/19/07 17:47:42
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	70673.09	-2.16517	-.183581	25.47549	.7211078	4.088330	245.7637
#1	70522.98	-.201573	-1.06856	25.41263	.7386686	3.833818	244.7886
#2	70823.22	-4.12877	.7013955	25.53835	.7035470	4.342842	246.7389
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	266.4765	16.04116	128.2623	146346.2	179.2717	1261.567	614.4000
#1	266.0013	16.06502	128.7155	145813.4	179.4056	1258.853	612.2489
#2	266.9516	16.01730	127.8091	146878.9	179.1377	1264.282	616.5511
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	160.5064	219.4531	6.275436	1.090264	341.1096	-7.19211	347.3414
#1	159.3574	217.2866	6.090382	1.265474	301.3038	-6.09396	348.3535
#2	161.6554	221.6196	6.460491	.9150531	380.9154	-8.29026	346.3293
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	147.4219	.5573884	.5875283	5.044082	12.90985	8600.818	175.8451
#1	147.5301	.8928150	2.119607	6.301722	12.87186	8646.431	176.5440
#2	147.3137	.2219617	-.944550	3.786443	12.94783	8555.207	175.1462
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	180.9844	5.338868	6.743288	-4.69172	254.0254	626.7528
#1	180.8359	5.854554	6.207890	.2375107	231.5438	627.2796
#2	181.1330	4.823182	7.278687	-9.62096	276.5070	626.2260
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: CVCCV3 Operator: LCM
Run Time: 10/19/07 18:00:06
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	52765.47	523.5138	515.4546	522.4287	50.17012	498.1679	99396.16
#1	52750.56	524.3962	521.1420	522.6192	50.16316	498.0867	99417.79
#2	52780.38	522.6313	509.7672	522.2382	50.17707	498.2491	99374.52
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	501.7996	503.7405	517.8713	49923.14	511.7769	100018.1	509.5488
#1	501.4814	503.9710	516.1805	49913.29	509.2215	99979.88	509.8835
#2	502.1178	503.5100	519.5622	49932.99	514.3321	100056.3	509.2141
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	498.2458	25724.82	525.7369	524.1217	102264.5	515.4755	512.9253
#1	497.8865	25714.36	527.1118	523.0340	102345.5	516.4315	511.8582
#2	498.6052	25735.28	524.3619	525.2095	102183.6	514.5194	513.9924
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q573.1816	511.8993	513.8587	513.2829	510.0186	508.5673	508.7252
#1	Q570.5917	509.6714	512.1224	516.6702	510.1849	506.9615	505.3998
#2	Q575.7715	514.1272	515.5950	509.8956	509.8524	510.1731	512.0505
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	513.3023	533.3958	521.9069	521.5335	532.8249	543.2982
#1	511.1319	534.8746	523.2299	520.6475	519.6469	543.3386
#2	515.4727	531.9171	520.5839	522.4194	546.0029	543.2577
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB3 Operator: LCM
Run Time: 10/19/07 18:09:41
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	16.04545	-1.67806	-1.94070	.3289507	-.334296	.2611524	129.7627
#1	25.28669	-.780008	-.692336	.4686537	-.271801	.3878335	147.6556
#2	6.804218	-2.57611	-3.18907	.1892478	-.396792	.1344713	111.8699
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	.2903612	.3654553	3.047421	29.19602	.1734976	48.99856	.1893236
#1	.1436850	.1741572	3.494537	42.94308	.1381640	65.81908	.3309325
#2	.4370374	.5567534	2.600305	15.44896	.2088312	32.17804	.0477147
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	1.460728	39.78165	2.878863	.4688211	91.14996	-.765847	.3319544
#1	2.159432	41.59950	Q6.310154	.3520537	-14.2930	.9741437	.3696251
#2	.7620243	37.96379	-.552429	.5855885	196.5929	-2.50584	.2942836
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	.9181824	1.181367	1.978696	1.164951	.2514662	.5640943	.0204065
#1	1.050683	1.564219	1.673108	2.093002	.3518925	.6959022	-5.04389
#2	.7856818	.7985143	2.284283	.2368995	.1510400	.4322863	5.084706
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.2495887	3.700508	2.467586	7.781282	29.59174	14.71279
#1	2.728734	5.665380	6.632086	4.402075	20.16971	15.59453
#2	-2.22956	1.735636	-1.69691	11.16049	39.01377	13.83106
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: S 710114-015-015-1/1 Operator: LCM
Run Time: 10/19/07 18:19:17
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	42054.56	1.002975	9.356101	65.29766	.4169943	9.957659	1353.536
#1	42212.48	-.795797	8.941736	65.42103	.3178483	9.673670	1354.370
#2	41896.62	2.801747	9.770466	65.17429	.5161402	10.24165	1352.702
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	355.0786	14.94902	136.4203	237137.2	167.5441	1452.596	678.4757
#1	356.9084	15.02327	137.6177	238029.1	170.1541	1457.995	681.3397
#2	353.2487	14.87477	135.2228	236245.5	164.9341	1447.198	675.6117
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	94.31247	779.2005	13.16255	1.931358	88.05129	-10.9292	533.8577
#1	93.69868	781.6518	14.22476	1.829737	-16.9281	-11.8819	537.6703
#2	94.92625	776.7492	12.10035	2.032980	193.0306	-9.97649	530.0450
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	195.3745	-.134338	3.539552	22.06000	53.31625	12039.58	165.8887
#1	195.4273	-1.38659	1.940338	21.58758	53.42798	12147.14	162.5976
#2	195.3218	1.117915	5.138765	22.53242	53.20451	11932.02	169.1798
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	168.3714	7.034052	16.22625	-4.67022	154.4690	655.6879
#1	173.9320	3.222155	19.72551	-7.51714	160.4535	661.1248
#2	162.8109	10.84595	12.72699	-1.82330	148.4846	650.2510
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-016-016-1/1 Operator: LCM
Run Time: 10/19/07 18:28:32
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	70912.47	-2.56168	10.52750	57.06273	.3073195	6.315150	701.7014
#1	73474.49	-.821129	9.779852	59.27571	.3579514	6.462938	723.7217
#2	68350.45	-4.30224	11.27515	54.84975	.2566875	6.167362	679.6810
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	354.2882	13.07232	127.9796	195024.3	35.22832	1004.757	538.7462
#1	366.2600	13.40279	132.9353	202000.5	36.18422	1036.241	557.9373
#2	342.3165	12.74185	123.0238	188048.1	34.27243	973.2735	519.5551
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	131.0955	547.2468	12.52118	.8611879	228.7667	-8.62230	427.2632
#1	135.9126	572.8093	13.27367	1.026827	291.1993	-6.37104	442.5848
#2	126.2785	521.6844	11.76870	.6955489	166.3340	-10.8736	411.9416
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	150.8898	.3320736	3.458866	5.343483	53.93129	9892.258	32.42833
#1	154.5929	.5032001	3.424112	4.927994	56.00456	10283.02	32.38386
#2	147.1867	.1609471	3.493619	5.758973	51.85803	9501.500	32.47280
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	36.62798	6.440515	15.56104	-4.40028	226.8965	1121.431
#1	38.08408	3.695797	18.06205	-6.55721	220.8439	1169.243
#2	35.17188	9.185232	13.06003	-2.24335	232.9491	1073.618
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-017-017-1/1 Operator: LCM
Run Time: 10/19/07 18:37:47
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	27045.31	.2427092	7.528050	94.55009	.4406339	8.315384	1198.843
#1	27799.80	1.370099	8.843367	97.20821	.4917821	8.367590	1230.366
#2	26290.82	-.884681	6.212734	91.89198	.3894857	8.263178	1167.320
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	459.0150	24.81913	120.8678	240781.4	55.87468	1919.541	857.2831
#1	471.2560	25.12281	125.1033	247637.2	57.93648	1974.076	880.7577
#2	446.7740	24.51545	116.6323	233925.5	53.81287	1865.006	833.8085
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	89.66455	549.0043	10.52215	.6054636	206.5712	-12.4142	664.6069
#1	92.55698	566.1906	9.698752	.2397904	227.1283	-10.3089	688.1694
#2	86.77213	531.8179	11.34555	.9711369	186.0142	-14.5196	641.0443
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	214.7948	-.231484	4.176326	7.750097	89.96557	14623.48	53.89797
#1	219.2415	-.939340	4.133700	5.555988	92.43968	15115.15	56.81662
#2	210.3480	.4763718	4.218951	9.944206	87.49146	14131.80	50.97932
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	56.86252	6.245038	12.66022	-5.96677	83.43359	545.6687
#1	58.49586	3.614022	12.74060	-8.50067	43.24696	574.4384
#2	55.22919	8.876055	12.57984	-3.43288	123.6202	516.8989
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-018-018-1/1 Operator: LCM
Run Time: 10/19/07 18:47:02
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	23837.82	-2.36231	12.09965	121.1226	.4325116	7.373763	804.5485
#1	24254.98	-1.19881	10.65801	122.9616	.6236461	7.286522	810.2872
#2	23420.66	-3.52581	13.54128	119.2836	.2413771	7.461004	798.8098
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	445.2847	26.92008	125.6157	224360.3	38.55502	1825.672	804.6723
#1	454.3330	26.99205	127.9894	228137.0	39.61461	1854.288	818.3601
#2	436.2363	26.84810	123.2419	220583.7	37.49543	1797.056	790.9846
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	85.57454	602.9653	9.163801	.6762023	58.27270	-9.91234	652.5317
#1	87.12293	618.9147	8.675519	.9135411	180.7275	-9.85999	668.2823
#2	84.02615	587.0159	9.652083	.4388635	-64.1821	-9.96470	636.7812
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	226.3227	-1.24024	4.209280	7.625511	137.7140	14657.10	36.72156
#1	230.2392	-1.01161	3.866906	7.856489	140.1713	15031.12	43.34810
#2	222.4061	-1.46888	4.551654	7.394533	135.2567	14283.09	30.09503
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	39.47111	-.603512	14.04704	-3.41213	138.0247	574.3369
#1	37.74733	5.478993	10.27333	-5.67506	136.2456	606.2790
#2	41.19489	-6.68602	17.82075	-1.14920	139.8039	542.3947
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-019-019-1/1 Operator: LCM
Run Time: 10/19/07 18:56:37
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	26561.70	-.571252	7.363637	40.86087	.3621892	8.374833	741.9451
#1	26645.35	-.534992	8.430754	41.04282	.3278125	8.264877	742.2312
#2	26478.05	-.607512	6.296520	40.67891	.3965659	8.484789	741.6589
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	425.6566	21.40832	121.3677	256081.3	33.18204	1477.943	547.3695
#1	427.6354	21.38017	122.8147	257011.6	32.99554	1487.708	549.1621
#2	423.6777	21.43648	119.9208	255151.1	33.36855	1468.177	545.5768
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	71.97952	539.4631	13.61025	1.157703	249.7374	-9.17405	673.0535
#1	71.81698	542.4846	14.47716	1.395149	346.2047	-13.2012	678.6109
#2	72.14208	536.4416	12.74332	.9202578	153.2702	-5.14692	667.4961
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	150.2329	.0300405	4.823306	11.43615	37.61550	15078.91	34.45426
#1	150.0712	.1181135	4.665433	10.55505	37.90164	15195.28	34.92752
#2	150.3946	-.058033	4.981179	12.31726	37.32937	14962.54	33.98100
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	32.54550	11.77299	14.52842	.6564789	140.2414	640.8547
#1	32.02914	15.37558	14.02750	4.530777	166.7652	646.3326
#2	33.06187	8.170392	15.02933	-3.21782	113.7175	635.3767
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: BLK100964 Operator: LCM
Run Time: 10/19/07 19:09:05
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	-18.4634	2.449740	-1.96370	.1275153	-.249447	-.109735	105.7022
#1	-20.6715	5.389990	-2.30081	.0815473	-.204440	-.091198	107.5122
#2	-16.2554	-.490510	-1.62659	.1734832	-.294453	-.128272	103.8923
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.0000	10.00000	10.00000	2.500000	1.000000	3.000000	500.0000
Low	-100.000	-10.0000	-10.0000	-2.50000	-1.00000	-3.00000	-500.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	2.227035	-.629659	2.005872	56.36593	.8493862	2.468618	.2909671
#1	H2.677418	-.403938	1.699715	59.44485	-.005838	-.395829	.2599399
#2	1.776653	-.855380	2.312028	53.28701	1.704610	5.333065	.3219944
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.500000	2.500000	5.000000	75.00000	5.000000	125.0000	2.500000
Low	-2.50000	-2.50000	-5.00000	-75.0000	-5.00000	-125.000	-2.50000

Elem	NI	K	SE	AG	NA	TL	V
Avge	L-5.47357	42.92819	.1309414	.7285132	758.3341	-6.89186	1.304051
#1	L-5.96854	58.28071	-1.40489	1.121079	947.2714	-7.10283	2.308941
#2	-4.97860	27.57568	1.666772	.3359474	569.3969	-6.68088	.2991605
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000
Low	-5.00000	-125.000	-10.0000	-2.50000	-1250.00	-15.0000	-5.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	3.501073	2.145376	.8505426	H28.48573	.0803649	3.511529	4.642966
#1	3.375460	2.580351	1.223618	H28.90739	.0550139	4.063109	6.339138
#2	3.626686	1.710401	.4774677	H28.06407	.1057158	2.959948	2.946795
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	NOCHECK
High	10.00000	7.500000	2.500000	12.50000	5.000000	12.50000	
Low	-10.0000	-7.50000	-2.50000	-12.5000	-5.00000	-12.5000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-1.04786	-14.7616	7.576847	-17.9204	20.42109	16.32121
#1	-3.17878	-16.1426	5.963605	-16.5933	-.692048	16.51025
#2	1.083061	-13.3806	9.190089	-19.2475	41.53423	16.13217
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						50.00000
Low						-50.0000

Method: TRACE1 Sample Name: BKS100964 Operator: LCM
Run Time: 10/19/07 19:18:21
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	10528.63	106.9020	100.1738	1091.891	52.89516	103.6134	9861.352
#1	10559.99	106.2901	101.0303	1093.762	52.95430	104.0134	9898.107
#2	10497.27	107.5140	99.31723	1090.021	52.83603	103.2134	9824.596
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	12000.00	120.0000	120.0000	1200.000	60.00000	120.0000	12000.00
Low	8000.000	80.00000	80.00000	800.0000	40.00000	80.00000	8000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	532.2240	518.5762	530.6549	10428.80	1024.958	9755.560	1066.843
#1	534.5120	519.9675	529.9324	10471.91	1025.846	9794.738	1070.665
#2	529.9360	517.1848	531.3773	10385.70	1024.070	9716.384	1063.022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0000	600.0000	600.0000	12000.00	1200.000	12000.00	1200.000
Low	400.0000	400.0000	400.0000	8000.000	800.0000	8000.000	800.0000

Elem	NI	K	SE	AG	NA	TL	V
Avge	514.7351	9831.047	96.38397	104.9846	10475.31	96.49845	543.3498
#1	516.6920	9849.627	97.60913	105.3307	10703.04	94.72302	546.3789
#2	512.7783	9812.467	95.15880	104.6385	10247.58	98.27389	540.3208
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0000	12000.00	120.0000	120.0000	12000.00	120.0000	600.0000
Low	400.0000	8000.000	80.00000	80.00000	8000.000	80.00000	400.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	1032.379	949.4194	542.0421	552.9117	1052.155	2080.363	1025.978
#1	1033.458	950.2193	543.4741	554.7579	1054.924	2083.513	1036.101
#2	1031.300	948.6195	540.6101	551.0656	1049.386	2077.212	1015.856
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	1200.000	1200.000	600.0000	600.0000	1200.000	2400.000	
Low	800.0000	800.0000	400.0000	400.0000	800.0000	1600.000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	1024.448	85.91842	101.6163	354.3304	439.1545	L7778.007
#1	1020.719	89.92761	101.4494	354.0483	449.3974	L7801.732
#2	1028.177	81.90923	101.7832	354.6124	428.9116	L7754.281
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Low
High						12000.00
Low						8000.000

Method: TRACE1 Sample Name: S 710114-020-020-1/1 Operator: LCM
Run Time: 10/19/07 19:27:36
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	36306.28	-3.13603	9.828291	45.98994	.2789443	8.062345	1426.044
#1	36371.24	-4.11681	10.45739	46.07952	.2194447	7.771135	1421.346
#2	36241.32	-2.15524	9.199195	45.90035	.3384438	8.353556	1430.743
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	336.3853	14.85421	88.00325	221828.4	26.77825	1299.809	538.8063
#1	335.8048	14.50696	88.94907	221950.6	27.78194	1305.314	539.0977
#2	336.9658	15.20147	87.05743	221706.2	25.77456	1294.304	538.5150
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	69.26247	673.9962	11.43715	.7486088	112.0325	-10.8952	523.9884
#1	69.22062	672.1484	13.26041	.4338219	17.94232	-12.4419	527.5819
#2	69.30433	675.8441	9.613889	1.063396	206.1227	-9.34853	520.3950
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	127.2191	1.229247	4.716380	5.972571	55.79284	11427.64	24.81789
#1	127.6714	.6748897	4.352227	3.278471	55.91065	11516.45	21.94796
#2	126.7667	1.783604	5.080533	8.666672	55.67503	11338.84	27.68783
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	27.75793	6.776072	13.76714	-2.74807	137.4255	624.5469
#1	30.69848	5.492877	17.14363	-4.60280	146.4525	626.7139
#2	24.81738	8.059269	10.39065	-.893349	128.3985	622.3798
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SP710114-020-020-1/1 Operator: LCM
Run Time: 10/19/07 19:36:52
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	47146.10	5.377198	22.45845	177.1026	5.777749	19.15130	2550.715
#1	49280.48	5.541388	22.58630	185.0853	6.059040	20.01559	2653.730
#2	45011.71	5.213009	22.33061	169.1199	5.496457	18.28700	2447.699
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	415.6607	69.59163	149.4604	237760.4	134.0764	2533.259	686.0551
#1	433.0239	72.84024	156.6380	248231.5	138.5929	2644.402	715.8511
#2	398.2975	66.34302	142.2827	227289.4	129.5599	2422.117	656.2591
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	140.4452	1939.132	22.23672	11.64611	1294.172	1.881172	618.4202
#1	145.9093	2021.486	22.24814	12.10750	1465.499	1.971611	644.7820
#2	134.9811	1856.777	22.22531	11.18472	1122.846	1.790733	592.0583
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	246.1540	94.87507	48.19225	58.01201	193.5417	12730.54	131.8905
#1	255.3962	97.83822	51.10464	60.40359	202.2986	13314.91	131.8306
#2	236.9117	91.91192	45.27987	55.62043	184.7848	12146.17	131.9503
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	135.1689	17.77132	24.46898	37.46567	186.5002	935.0963
#1	141.9736	14.46877	26.13732	39.39290	184.5134	979.3529
#2	128.3641	21.07386	22.80063	35.53845	188.4870	890.8397
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SD710114-020-020-1/1 Operator: LCM
Run Time: 10/19/07 19:46:27
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	48653.01	.9459414	21.59690	179.6988	5.728062	20.47704	2574.279
#1	51158.56	2.505563	23.93937	189.1072	6.043957	21.75657	2706.738
#2	46147.46	-.613680	19.25444	170.2903	5.412167	19.19751	2441.820
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	430.6156	69.56700	158.4096	249965.5	136.8366	2607.626	719.0806
#1	453.1445	73.26244	165.8450	262774.2	144.4585	2737.039	756.0345
#2	408.0868	65.87157	150.9742	237156.8	129.2148	2478.213	682.1265
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	141.1945	1988.189	22.06800	10.97419	1079.785	2.380266	654.7218
#1	148.4271	2102.713	22.28646	11.80070	1153.263	-.582314	690.6317
#2	133.9619	1873.666	21.84953	10.14768	1006.307	5.342846	618.8120
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	249.4880	93.28944	47.75336	57.39774	196.3106	13431.90	129.3469
#1	264.0517	97.28921	50.02226	59.19937	206.4432	14164.42	132.7621
#2	234.9244	89.28966	45.48447	55.59611	186.1781	12699.37	125.9316
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	140.5811	12.57478	26.81423	24.89603	207.3538	935.0416
#1	150.3063	5.753693	30.55246	31.65663	218.6662	983.6169
#2	130.8560	19.39587	23.07600	18.13542	196.0415	886.4662
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: CVCCV4 Operator: LCM
Run Time: 10/19/07 19:58:55
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	54295.89	536.0648	529.7549	538.3756	51.96985	504.8820	101219.8
#1	54220.83	533.2944	529.3449	536.3945	51.87230	503.5926	101185.7
#2	54370.96	538.8352	530.1649	540.3567	52.06740	506.1713	101253.9
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	512.6389	520.9998	527.8441	51632.84	524.7498	101507.1	528.8907
#1	512.0101	519.2595	526.1315	51570.57	523.1251	101498.7	528.1241
#2	513.2677	522.7399	529.5566	51695.11	526.3746	101515.5	529.6572
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	505.8281	26491.31	543.5869	531.6244	105684.8	534.5525	530.9961
#1	504.3867	26405.63	541.6431	530.9966	105704.7	532.2457	530.2244
#2	507.2694	26576.99	545.5306	532.2521	105664.9	536.8594	531.7677
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q584.2908	502.6040	535.4109	529.4989	515.7437	519.8995	523.8908
#1	Q582.1801	501.5103	533.2715	526.9923	514.6773	519.0579	521.8572
#2	Q586.4016	503.6977	537.5503	532.0054	516.8099	520.7413	525.9243
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	525.1788	560.5315	535.1141	529.3289	Q556.5666	Q552.9320
#1	523.7585	556.4371	534.2456	526.9592	549.0000	Q555.5864
#2	526.5992	564.6260	535.9826	531.6986	Q564.1332	Q550.2776
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Fail
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB4 Operator: LCM
Run Time: 10/19/07 20:08:11
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	-7.98881	-1.93711	-1.80759	.1545681	-.384556	.2238372	147.5286
#1	-4.94345	-3.06887	-.151723	.1528516	-.360729	.2170589	144.3226
#2	-11.0342	-.805340	-3.46346	.1562846	-.408384	.2306154	150.7346
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	.5975592	.2479385	3.023854	20.38756	.7086552	26.36413	.1393089
#1	.3767571	.0368817	2.927747	24.23704	1.364121	22.82888	.1139324
#2	.8183613	.4589953	3.119961	16.53808	.0531896	29.89938	.1646854
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-.290960	13.01740	1.424515	.5947220	168.2537	-2.34832	.3726682
#1	-.001909	9.718899	2.467072	.8632743	127.3842	-4.45756	.1431356
#2	-.580010	16.31590	.3819576	.3261696	209.1231	-.239078	.6022007
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	1.076307	1.432962	2.354507	.5628988	.1306340	.4395495	2.492517
#1	.9671194	1.321443	2.510064	-.496231	.1291842	.5011883	4.596305
#2	1.185494	1.544481	2.198950	1.622029	.1320839	.3779106	.3887283
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-.183730	5.304862	-.516066	3.415326	48.96993	13.49076
#1	-.252425	6.725214	.3375939	3.234663	63.70824	13.93969
#2	-.115035	3.884510	-1.36973	3.595988	34.23163	13.04183
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: PS710114-020-020-1/1 Operator: LCM
Run Time: 10/19/07 20:17:27
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	37750.05	85.37558	96.95096	68.22458	10.87585	29.84546	6378.552
#1	37862.52	84.86800	96.76184	68.34647	10.78105	29.91681	6390.276
#2	37637.57	85.88317	97.14007	68.10268	10.97065	29.77411	6366.829
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	355.5109	46.87723	118.8788	226282.8	111.1690	6358.895	628.5978
#1	356.3759	46.86376	119.6700	226711.9	110.7177	6366.909	630.1218
#2	354.6458	46.89070	118.0875	225853.7	111.6202	6350.880	627.0738
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	110.9175	5946.139	86.89327	8.847858	5318.508	94.19099	548.9839
#1	110.8898	5943.527	88.61661	9.125016	5202.889	92.52556	551.3136
#2	110.9453	5948.751	85.16993	8.570702	5434.127	95.85641	546.6541
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	209.8127	70.27904	36.25004	113.8783	76.89955	11470.33	110.9954
#1	210.6744	70.60677	35.81845	116.5494	77.06493	11561.84	110.5776
#2	208.9510	69.95130	36.68162	111.2073	76.73418	11378.82	111.4132
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	111.2554	85.87567	87.40157	519.4961	670.5607	5805.211
#1	110.7874	84.48870	90.68002	521.6136	687.8167	5818.249
#2	111.7234	87.26264	84.12312	517.3787	653.3048	5792.172
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SE710114-020-020-1/1 Operator: LCM
Run Time: 10/19/07 20:26:43
Comment: UG/L 50
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	7450.347	-1.45642	3.135583	9.441366	-.265589	1.976760	400.0416
#1	7453.664	.2475913	4.996797	9.446478	-.270965	1.854932	403.6411
#2	7447.031	-3.16042	1.274370	9.436253	-.260213	2.098587	396.4420
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	69.23515	3.474442	20.08814	46039.04	5.703714	277.5030	111.6259
#1	69.49326	3.991086	19.81587	46123.39	5.289789	275.9598	111.9069
#2	68.97704	2.957797	20.36040	45954.68	6.117640	279.0463	111.3450
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	14.62588	144.1861	3.047624	.7418478	345.7078	-4.80809	107.7549
#1	14.55903	148.5300	2.602144	.8993691	371.2928	-5.75763	107.8856
#2	14.69273	139.8422	3.493104	.5843265	320.1228	-3.85856	107.6241
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	27.75706	.9162881	1.760568	-.099606	11.32244	2351.594	9.374360
#1	27.92287	1.265114	1.833632	1.157929	11.31870	2351.634	9.153122
#2	27.59125	.5674626	1.687504	-1.35714	11.32619	2351.554	9.595598
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	3.867937	3.689820	2.726023	.5076675	59.01207	143.1928
#1	3.357669	6.137922	.8337097	5.301584	60.95402	144.1555
#2	4.378204	1.241718	4.618337	-4.28625	57.07012	142.2301
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-021-021-1/1 Operator: LCM
Run Time: 10/19/07 20:36:17
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	83657.42	-2.65282	2.221278	43.97326	.4958773	4.850775	301.1540
#1	85419.76	-2.74359	4.881893	44.97481	.5052067	5.024233	303.9966
#2	81895.09	-2.56204	-.439337	42.97170	.4865480	4.677317	298.3115
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	258.7618	16.24826	74.86430	130975.0	9.113934	1044.667	406.6767
#1	263.5818	16.17758	77.49876	133665.8	10.90428	1065.140	414.8154
#2	253.9418	16.31894	72.22984	128284.2	7.323585	1024.193	398.5379
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	259.7285	396.3895	9.998894	.7575089	375.5198	-7.38371	300.1506
#1	264.6393	403.6415	8.672480	.9941179	358.5798	-3.75210	308.3151
#2	254.8176	389.1374	11.32531	.5209000	392.4598	-11.0153	291.9861
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	92.47826	.5861816	2.123005	3.663694	18.91998	7870.195	6.212769
#1	94.28798	-.192437	1.986821	2.771864	19.37953	8067.863	6.921722
#2	90.66853	1.364800	2.259190	4.555524	18.46042	7672.528	5.503815
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	10.56407	8.014998	10.99046	-6.55008	162.4627	518.3213
#1	12.89520	10.66335	7.676643	-8.01340	165.1169	527.3403
#2	8.232931	5.366647	14.30428	-5.08676	159.8085	509.3024
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-022-022-1/1 Operator: LCM
Run Time: 10/19/07 20:45:32
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	76551.31	1.390634	6.455777	31.17214	.4022953	6.848438	396.0877
#1	76718.27	3.010093	6.509135	31.19610	.3783620	6.988741	397.5173
#2	76384.35	-.228826	6.402419	31.14819	.4262286	6.708136	394.6581
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	295.8657	11.26618	96.03619	175267.0	14.54640	717.3119	349.3109
#1	296.1524	11.50467	95.47319	175144.3	14.05090	715.7683	349.4280
#2	295.5791	11.02769	96.59918	175389.8	15.04190	718.8555	349.1939
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	197.4181	380.4979	11.82456	1.236347	338.3970	-11.9232	349.4069
#1	197.2380	380.4067	11.15038	.9743643	262.3514	-10.7723	350.5323
#2	197.5983	380.5891	12.49874	1.498330	414.4427	-13.0741	348.2817
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	94.20041	1.330888	2.344766	8.810154	22.26119	8256.641	18.05770
#1	93.88608	1.253388	1.946423	7.965129	22.28933	8278.711	18.24630
#2	94.51473	1.408389	2.743108	9.655178	22.23304	8234.571	17.86910
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	12.79034	12.56818	11.45239	5.945217	159.0287	462.5136
#1	11.95275	13.31809	10.06616	8.275612	169.7926	460.2818
#2	13.62794	11.81827	12.83862	3.614822	148.2648	464.7454
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-023-023-1/1 Operator: LCM
Run Time: 10/19/07 20:54:48
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	88649.26	-1.46232	7.431124	26.93388	.3251343	4.847322	298.8741
#1	88623.66	-.731668	9.282318	26.93793	.4224166	4.796214	302.2090
#2	88674.86	-2.19297	5.579929	26.92983	.2278521	4.898430	295.5392
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	259.7067	8.681421	109.6087	127996.9	13.60850	639.1517	297.8854
#1	258.9972	9.028616	109.0686	127956.4	14.02818	636.9932	297.7960
#2	260.4162	8.334226	110.1488	128037.5	13.18882	641.3102	297.9747
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	149.0374	429.9578	9.859420	1.141773	397.8362	-6.69415	274.9417
#1	148.6202	433.3014	9.355340	1.887087	458.0047	-6.88179	274.0734
#2	149.4545	426.6142	10.36350	.3964588	337.6677	-6.50651	275.8101
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	87.78606	2.540226	2.728236	5.812970	23.08997	6872.551	9.864813
#1	88.20044	2.915239	2.430173	5.511374	23.08053	6863.563	8.640182
#2	87.37167	2.165212	3.026300	6.114566	23.09942	6881.540	11.08944
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	15.47991	7.081679	11.24784	-1.64664	167.2216	531.5919
#1	16.72172	3.484352	12.29038	4.189812	157.5997	531.5548
#2	14.23810	10.67901	10.20529	-7.48309	176.8434	531.6290
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-024-024-1/1 Operator: LCM
Run Time: 10/19/07 21:04:04
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	24199.82	-1.32541	7.661012	80.81355	.3524356	7.588127	548.4575
#1	24366.27	-2.60512	6.519772	81.53945	.3287390	7.639980	549.8279
#2	24033.37	-.045692	8.802252	80.08764	.3761321	7.536274	547.0871
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	412.5410	22.40095	111.4239	225535.4	29.86097	1396.193	747.9776
#1	415.3035	22.63453	112.8905	227474.5	30.87085	1406.120	753.8411
#2	409.7786	22.16737	109.9573	223596.4	28.85109	1386.267	742.1141
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	79.36461	693.2789	11.47744	.3562041	253.1561	-8.40215	601.1807
#1	79.98123	699.3539	11.51579	.6257503	290.9064	-6.14446	606.0583
#2	78.74799	687.2039	11.43910	.0866580	215.4059	-10.6598	596.3031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	200.0754	-1.83366	4.413139	6.800720	79.93958	12983.65	28.27350
#1	201.1630	-2.47519	4.153594	7.056448	80.63905	13126.20	26.22233
#2	198.9878	-1.19212	4.672685	6.544992	79.24011	12841.10	30.32467
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	30.65431	2.624981	15.90324	-2.90552	79.42247	421.6098
#1	33.19467	3.200332	15.67306	-4.30228	57.96535	427.3979
#2	28.11395	2.049630	16.13342	-1.50876	100.8796	415.8217
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-025-025-1/1 Operator: LCM
Run Time: 10/19/07 21:13:38
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	28894.38	-1.79956	5.085033	52.48304	.2630612	7.948131	955.7454
#1	29181.11	-3.60117	3.144448	53.03116	.2061046	8.086216	966.5248
#2	28607.65	.0020399	7.025618	51.93492	.3200178	7.810045	944.9659
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	420.3218	18.60512	111.3920	234533.0	27.60302	1209.751	841.6244
#1	423.3705	18.40454	113.6281	236459.4	28.94370	1222.874	848.8862
#2	417.2732	18.80570	109.1559	232606.6	26.26234	1196.628	834.3625
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	77.77557	763.1682	9.730337	1.014079	251.4857	-14.1328	587.0732
#1	79.10751	766.6282	8.511383	1.119631	167.7049	-15.5610	597.5264
#2	76.44363	759.7083	10.94929	.9085256	335.2665	-12.7046	576.6201
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	176.8175	-.290045	3.797522	4.717640	37.42814	11582.67	27.47406
#1	178.0243	-.666352	4.151898	4.867373	37.76938	11783.94	26.05158
#2	175.6107	.0862627	3.443145	4.567907	37.08690	11381.41	28.89654
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	27.66701	5.522582	11.83367	-.185867	132.7036	400.7374
#1	30.38931	1.270531	12.13126	-7.29919	149.7622	406.9518
#2	24.94471	9.774632	11.53609	6.927460	115.6450	394.5230
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: IAICSAI Operator: LCM
Run Time: 10/19/07 21:26:07
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	511781.0	-.735977	2.362454	.8621749	.3360465	Q10.32035	517851.2
#1	513678.6	-1.28762	3.885474	.9166020	.4313017	Q10.91091	521130.9
#2	509883.3	-.184331	.8394343	.8077478	.2407912	Q9.729788	514571.4
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	500000.0	.0000000	.0000000	.0000000	.0000000	.0000000	500000.0
Range	100000.0	10.00000	10.00000	2.500000	1.000000	5.000000	100000.0

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	2.356731	Q3.887498	4.615638	200051.2	4.379138	506865.6	Q11.93887
#1	2.300989	Q4.002651	4.791256	200854.8	4.515097	508557.2	Q12.01051
#2	2.412473	Q3.772345	4.440021	199247.7	4.243178	505174.0	Q11.86723
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.0000000	.0000000	.0000000	200000.0	.0000000	500000.0	.0000000
Range	2.500000	2.500000	5.000000	40000.00	5.000000	100000.0	2.500000

Elem	NI	K	SE	AG	NA	TL	V
Avge	3.148908	2.092349	6.883084	-.007097	237.1007	-12.8870	1.314599
#1	4.366239	8.324803	4.400232	-.199698	285.7837	-13.3274	1.442020
#2	1.931576	-4.14010	9.365936	.1855035	188.4177	-12.4466	1.187177
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q26.82278	4.513539	-.089705	1.061259	Q4.333839	2.443183	-11.7428
#1	Q27.29527	5.121575	.0051801	-1.10766	Q4.369963	2.629519	-13.6793
#2	Q26.35030	3.905503	-.184590	3.230179	Q4.297716	2.256847	-9.80640
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	7.500000	2.500000	12.50000	2.500000	12.50000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	12.43962	16.51668	2.065720	-20.1711	30.83495	Q45.60004
#1	13.61185	8.579757	2.309898	-16.1603	31.73297	Q47.06301
#2	11.26739	24.45361	1.821541	-24.1818	29.93693	Q44.13707
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value						.0000000
Range						25.00000

Method: TRACE1 Sample Name: IBICSABI Operator: LCM
Run Time: 10/19/07 21:35:23
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	515364.6	656.3927	108.8145	543.2745	515.0507	975.5355	518380.1
#1	514842.8	660.4864	105.1154	542.3644	514.3010	977.6918	519679.7
#2	515886.4	652.2989	112.5136	544.1847	515.8004	973.3793	517080.5
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	600.0000	100.0000	500.0000	500.0000	1000.000	500000.0
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	500.5056	498.9967	550.2053	201266.0	56.00380	508061.1	528.7692
#1	501.5574	499.7437	549.4562	201536.9	55.40625	509312.5	529.3870
#2	499.4537	498.2497	550.9543	200995.0	56.60135	506809.6	528.1515
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	200000.0	50.00000	500000.0	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	974.8677	5743.631	Q60.50544	219.3195	11195.52	92.08693	521.5649
#1	979.2698	5723.333	Q64.21607	219.3140	11236.83	94.18381	521.0106
#2	970.4656	5763.929	56.79481	219.3249	11154.21	89.99004	522.1192
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	5000.000	50.00000	200.0000	10000.00	100.0000	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	993.1346	1026.952	1062.178	1050.735	519.4699	1018.413	42.33629
#1	995.3450	1029.703	1059.006	1051.081	519.4556	1016.673	42.86917
#2	990.9243	1024.201	1065.349	1050.388	519.4842	1020.152	41.80341
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1000.000	1000.000	1000.000	1000.000	500.0000	1000.000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	62.83714	65.34274	58.08639	190.1130	Q238.6496	Q1399.706
#1	61.67435	64.99786	63.82480	187.4705	Q230.4675	Q1402.675
#2	63.99992	65.68761	52.34798	192.7555	Q246.8318	Q1396.737
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Fail
Value				200.0000	400.0000	1000.000
Range				20.00000	20.00000	20.00000

Method: TRACE1 Sample Name: CVCCV4 Operator: LCM
Run Time: 10/19/07 21:44:40
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	53514.96	528.6194	522.6137	523.1874	51.61971	504.8352	99709.16
#1	53437.24	526.7556	519.3757	522.1517	51.60018	505.6320	99664.32
#2	53592.68	530.4832	525.8516	524.2230	51.63924	504.0384	99754.01
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	508.9997	515.4722	520.9396	51154.74	518.3569	100814.4	520.6534
#1	508.6974	515.2643	519.6957	51170.82	516.7304	100760.9	520.2842
#2	509.3020	515.6802	522.1834	51138.66	519.9835	100867.9	521.0228
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	504.6604	25479.03	538.0007	525.8794	103581.6	529.6246	522.0325
#1	504.3206	25398.37	533.8932	524.9094	103161.9	531.8280	520.6547
#2	505.0002	25559.69	542.1082	526.8495	104001.3	527.4213	523.4104
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q581.9587	509.2289	530.3055	522.5785	508.3337	515.5471	516.5005
#1	Q580.3956	508.7873	529.2992	524.1945	507.7636	514.1408	516.6576
#2	Q583.5217	509.6706	531.3118	520.9624	508.9039	516.9533	516.3433
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	519.2848	552.2888	530.8561	528.1771	532.5527	544.8191
#1	516.7662	552.2558	524.7114	527.3121	524.1470	545.2084
#2	521.8033	552.3218	537.0009	529.0420	540.9583	544.4299
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB4 Operator: LCM
Run Time: 10/19/07 21:53:56
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	48.87698	-.170418	-1.19476	.3926984	-.294271	.4182668	163.8126
#1	53.99565	-.017212	-.818701	.3820498	-.213151	.4264094	183.5174
#2	43.75832	-.323623	-1.57082	.4033470	-.375390	.4101242	144.1079
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	.9308758	.9429321	2.999631	52.06570	1.044751	95.34817	.2663495
#1	.5513784	.6625708	3.179899	51.01460	-.743008	106.7785	.2702496
#2	1.310373	1.223293	2.819364	53.11679	2.832509	83.91789	.2624496
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	.8368028	11.55758	1.386696	.0492025	136.3578	1.382984	-.499699
#1	.9768085	6.669151	.6467472	.1720623	10.83562	4.606956	-.459793
#2	.6967970	16.44602	2.126645	-.073657	261.8800	-1.84099	-.539606
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	.9669069	1.865092	2.209883	1.026386	.2813698	.2400925	4.523481
#1	1.329340	1.999367	3.245396	2.247073	.3062040	.2193960	5.054282
#2	.6044740	1.730817	1.174370	-.194300	.2565356	.2607891	3.992680
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-.695061	5.806173	-.823465	1.873933	76.45505	17.28492
#1	-3.64209	6.092772	-2.07671	4.726141	52.50123	17.29253
#2	2.251973	5.519575	.4297770	-.978275	100.4089	17.27731
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: S 710114-026-026-1/1 Operator: LCM
Run Time: 10/19/07 22:03:31
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	24025.39	-2.94064	6.809451	34.82328	.2163129	8.150998	1140.806
#1	23961.62	-2.81504	7.490705	34.68328	.1286250	7.665678	1131.252
#2	24089.15	-3.06624	6.128197	34.96329	.3040008	8.636318	1150.360
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	457.4642	22.12569	88.07633	245540.9	33.88160	1410.227	581.7722
#1	455.6651	21.79722	88.25686	244436.7	33.74684	1402.545	578.9166
#2	459.2633	22.45417	87.89580	246645.0	34.01636	1417.909	584.6277
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	68.32657	569.1992	9.820344	1.088389	101.9409	-11.6490	704.3225
#1	67.47601	570.8521	7.562810	1.124539	-107.348	-13.1556	703.4659
#2	69.17712	567.5464	12.07788	1.052239	311.2296	-10.1423	705.1792
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	176.3534	-1.85436	4.014624	6.546421	33.53639	15716.19	33.34095
#1	175.9046	-2.58734	4.290488	8.249668	33.47242	15731.38	36.31681
#2	176.8022	-1.12138	3.738760	4.843174	33.60036	15700.99	30.36509
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	34.15147	4.682500	12.38872	1.354942	145.6193	452.1786
#1	32.46149	5.103260	8.792046	-2.28795	142.5264	448.8014
#2	35.84145	4.261741	15.98540	4.997833	148.7123	455.5557
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-027-027-1/1 Operator: LCM
Run Time: 10/19/07 22:12:47
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	26900.98	-4.45075	5.555329	21.37493	.2370629	12.27639	441.9489
#1	27090.45	-4.26644	5.195633	21.50064	.0773454	12.49629	447.2417
#2	26711.51	-4.63506	5.915026	21.24921	.3967804	12.05649	436.6562
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	458.5435	9.538145	57.43060	365865.1	27.98001	699.0720	324.9586
#1	461.2727	9.411522	58.22030	367826.9	28.50996	704.4377	326.7054
#2	455.8142	9.664768	56.64090	363903.2	27.45006	693.7062	323.2118
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	35.17562	402.0846	17.03706	.5983617	69.84377	-16.2321	742.2017
#1	34.61529	405.4676	15.80137	.7717023	-103.739	-15.1669	751.1807
#2	35.73595	398.7015	18.27276	.4250212	243.4267	-17.2973	733.2225
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	108.7116	-1.99352	4.528289	8.734215	15.30035	15670.67	26.77625
#1	109.7882	-3.42987	5.138362	6.659420	15.39052	15875.21	29.31895
#2	107.6350	-.557175	3.918215	10.80901	15.21019	15466.13	24.23356
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	28.58151	8.940576	21.08490	-6.32915	158.0655	522.8835
#1	28.10511	10.73526	18.33402	-3.02567	184.5863	526.5326
#2	29.05791	7.145894	23.83579	-9.63263	131.5446	519.2343
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-028-028-1/1 Operator: LCM
Run Time: 10/19/07 22:22:02
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	66997.72	-.423831	-1.69068	23.90680	.6294064	4.738581	193.3150
#1	67155.95	.1276636	-.223580	23.94434	.5610789	4.535463	184.6009
#2	66839.50	-.975325	-3.15778	23.86925	.6977339	4.941699	202.0291
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	251.4709	15.06389	64.87469	137237.4	19.83131	1002.305	688.3039
#1	252.1818	15.45047	65.12297	137479.1	20.02696	1003.140	689.0585
#2	250.7600	14.67731	64.62640	136995.7	19.63567	1001.470	687.5493
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	139.9413	122.2119	4.514502	1.270188	408.6170	-9.90530	336.7022
#1	139.5275	125.6248	6.559336	1.217665	418.1689	-9.05933	338.2528
#2	140.3552	118.7991	2.469668	1.322711	399.0652	-10.7513	335.1515
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	106.9476	-.448656	1.447486	3.665845	8.990446	8232.069	18.97355
#1	107.2057	-.258888	1.855355	2.607021	9.021962	8284.663	21.15591
#2	106.6894	-.638425	1.039616	4.724670	8.958929	8179.475	16.79118
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	20.25984	-1.11227	7.327440	2.830044	176.3147	553.4540
#1	19.46212	5.859032	6.909042	8.051964	198.2634	556.2560
#2	21.05755	-8.08358	7.745838	-2.39188	154.3660	550.6521
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-029-029-1/1 Operator: LCM
Run Time: 10/19/07 22:31:22
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	56853.37	4.152978	7.491605	115.4184	.6245396	9.621308	2176.694
#1	56950.66	4.185591	8.112984	115.6293	.7169542	9.977743	2178.535
#2	56756.07	4.120364	6.870226	115.2074	.5321250	9.264874	2174.852
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	352.4116	31.05983	192.2749	228459.5	95.11592	5181.483	1394.450
#1	352.6043	30.93490	193.9467	228602.2	95.76705	5186.752	1396.317
#2	352.2189	31.18477	190.6031	228316.8	94.46480	5176.214	1392.584
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	148.5642	802.8422	10.86500	1.822602	467.7091	-11.4420	517.4333
#1	148.8699	803.5322	11.54269	1.463929	461.9305	-12.0952	520.6063
#2	148.2586	802.1523	10.18732	2.181276	473.4877	-10.7888	514.2603
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	272.5176	.3153722	4.338387	10.01894	49.85399	13229.30	94.06018
#1	272.7583	.6920648	3.983455	10.28442	49.88955	13304.67	93.98953
#2	272.2769	-.061320	4.693318	9.753460	49.81842	13153.92	94.13084
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	95.64333	9.643457	11.47537	1.552025	164.2964	524.7938
#1	96.65542	10.18131	12.22297	2.986374	185.6195	525.3361
#2	94.63124	9.105600	10.72778	.1176758	142.9735	524.2517
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-030-030-1/1 Operator: LCM
Run Time: 10/19/07 22:40:51
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	36521.66	3.928286	4.868655	73.29059	.5317478	10.29345	2137.564
#1	37496.74	4.473714	6.870014	75.29910	.5046696	10.41462	2196.135
#2	35546.57	3.382857	2.867296	71.28207	.5588260	10.17229	2078.994
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	361.6547	27.46326	205.2629	235904.6	105.5538	2667.159	1144.349
#1	370.7761	28.37672	211.8397	242310.9	108.9570	2737.903	1175.021
#2	352.5333	26.54979	198.6862	229498.4	102.1507	2596.416	1113.677
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	100.5561	694.8084	14.21653	2.944152	140.7311	-10.1642	592.1413
#1	102.8488	718.8392	16.33672	2.980886	142.2942	-10.7567	608.3423
#2	98.26348	670.7775	12.09634	2.907418	139.1681	-9.57170	575.9403
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	274.7380	-1.00979	4.400163	10.68794	47.11639	14996.89	103.2715
#1	280.5204	-1.36422	4.128875	10.13211	48.31485	15388.82	101.3586
#2	268.9556	-.655359	4.671451	11.24378	45.91793	14604.96	105.1843
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	106.6946	9.877195	16.38579	2.048897	148.0760	533.3452
#1	112.7558	10.55525	19.22700	2.602600	153.9536	551.9042
#2	100.6333	9.199143	13.54459	1.495194	142.1984	514.7862
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-031-031-1/1 Operator: LCM
Run Time: 10/19/07 22:50:26
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	58991.55	1.978559	9.723744	79.56857	.3557503	10.01225	1635.972
#1	59015.41	.1641922	10.81846	79.71335	.3110861	9.760193	1632.236
#2	58967.69	3.792926	8.629033	79.42379	.4004145	10.26431	1639.709
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	325.9391	15.45342	319.4676	213180.4	99.37074	1615.830	676.5557
#1	325.9470	15.80054	319.1302	213141.6	98.39162	1615.890	676.2020
#2	325.9312	15.10629	319.8050	213219.2	100.3499	1615.770	676.9094
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	131.8340	606.6282	13.20574	2.983255	277.2989	-10.5351	441.3517
#1	131.2431	612.2941	13.00576	3.051900	329.4354	-8.43688	441.2669
#2	132.4249	600.9623	13.40572	2.914611	225.1624	-12.6333	441.4365
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	247.6363	1.632424	4.773092	13.85137	35.68949	10412.07	97.60039
#1	246.9105	2.255063	5.042185	12.25791	35.79165	10408.68	99.20590
#2	248.3621	1.009785	4.504000	15.44483	35.58733	10415.46	95.99487
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	100.2555	9.628845	14.99376	-1.17278	152.0018	824.2382
#1	97.98404	9.536968	14.73971	-1.13391	145.5901	824.9860
#2	102.5270	9.720722	15.24781	-1.21165	158.4135	823.4904
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-032-032-1/1 Operator: LCM
Run Time: 10/19/07 22:59:42
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	45122.73	5.046601	11.03950	47.13318	.4435380	12.68852	1617.214
#1	45058.56	4.638339	10.96295	47.07243	.4486359	12.62215	1606.655
#2	45186.90	5.454863	11.11604	47.19393	.4384400	12.75490	1627.774
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	406.6086	17.69347	252.8714	281901.3	182.2353	1681.785	738.4664
#1	404.9916	17.57732	251.7915	281261.2	181.7218	1680.494	736.4356
#2	408.2256	17.80962	253.9512	282541.4	182.7489	1683.076	740.4973
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	102.3653	537.6013	18.68693	3.173280	178.0409	-11.9069	623.3135
#1	102.3735	541.4998	19.78099	2.870174	269.8378	-11.3824	622.4508
#2	102.3570	533.7029	17.59288	3.476385	86.24400	-12.4314	624.1762
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	340.1642	.2079190	5.529222	25.28050	37.38474	13882.94	183.1440
#1	337.3498	.8896114	5.516716	26.40449	37.38185	13838.16	184.9020
#2	342.9787	-.473773	5.541728	24.15652	37.38763	13927.72	181.3860
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	181.7806	17.78970	19.13510	2.076538	148.9892	849.3954
#1	180.1313	15.56179	21.89014	1.540543	134.5681	848.3990
#2	183.4299	20.01762	16.38006	2.612534	163.4102	850.3917
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-033-033-1/1 Operator: LCM
Run Time: 10/19/07 23:08:58
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	19867.61	5.340360	8.111837	69.78238	.3443125	10.29595	764.3118
#1	19867.98	3.229307	8.516655	69.99113	.3381736	10.54473	766.7205
#2	19867.23	7.451412	7.707020	69.57362	.3504515	10.04716	761.9032
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	444.3473	27.25394	203.6677	248602.2	230.4221	1807.184	815.2497
#1	443.3999	27.39529	202.8601	248198.0	230.3736	1810.108	814.4263
#2	445.2946	27.11258	204.4753	249006.5	230.4705	1804.260	816.0731
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	91.97050	493.3575	12.80609	1.242438	310.1663	-11.8386	688.0717
#1	90.93626	494.1447	11.75537	1.320850	244.7577	-12.9593	686.3300
#2	93.00473	492.5704	13.85680	1.164025	375.5749	-10.7179	689.8134
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	274.0792	-1.14539	4.232953	20.75697	66.88306	15061.10	228.5479
#1	271.8149	-2.20939	4.241685	19.29664	66.88797	15010.75	230.2821
#2	276.3435	-.081385	4.224221	22.21731	66.87815	15111.45	226.8137
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	231.3587	8.776561	14.82044	1.551895	117.2423	468.6259
#1	230.4190	5.254490	15.00540	-.203461	101.4428	470.0037
#2	232.2985	12.29863	14.63548	3.307251	133.0418	467.2480
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-034-034-1/1 Operator: LCM
Run Time: 10/19/07 23:18:14
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	31400.59	2.928904	11.30770	115.7812	.5676697	11.62997	1554.012
#1	31375.28	4.383396	12.08393	115.6702	.5270660	11.06286	1547.155
#2	31425.90	1.474412	10.53147	115.8922	.6082734	12.19709	1560.870
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	488.4870	27.77814	295.5021	261445.2	200.0490	2056.031	970.4965
#1	488.4963	27.76622	295.4553	261355.7	200.6210	2057.136	969.6670
#2	488.4778	27.79006	295.5488	261534.6	199.4770	2054.926	971.3260
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	101.0713	866.8694	9.657356	2.493219	230.9848	-10.8172	662.9625
#1	101.2785	865.6642	9.897080	2.535392	314.3525	-8.11961	663.2121
#2	100.8640	868.0745	9.417633	2.451046	147.6171	-13.5148	662.7130
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	394.7604	-.776308	3.819500	19.58834	131.3196	14636.93	199.1067
#1	394.6043	-1.45911	4.210503	18.22677	131.4159	14644.23	201.5946
#2	394.9165	-.093510	3.428498	20.94991	131.2233	14629.64	196.6188
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	200.5195	4.561009	12.20508	-3.64838	134.5422	540.9850
#1	200.1336	9.558569	10.06580	-4.36935	128.4969	541.0457
#2	200.9054	-.436550	14.34436	-2.92741	140.5875	540.9243
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-035-035-1/1 Operator: LCM
Run Time: 10/19/07 23:27:49
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	26333.53	-.343074	8.170836	107.0617	.4805814	9.945471	1608.250
#1	26382.55	-.159329	6.307026	107.3177	.5002407	10.15054	1613.920
#2	26284.50	-.526818	10.03464	106.8058	.4609221	9.740400	1602.580
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	498.3032	26.02054	201.1057	241877.8	82.79890	2004.253	790.0974
#1	498.2919	26.12016	200.8683	242239.4	82.67694	2002.891	791.4350
#2	498.3145	25.92092	201.3431	241516.2	82.92087	2005.614	788.7598
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	88.10974	715.0189	10.63618	2.009863	304.7300	-9.87797	645.3724
#1	88.59088	714.8733	8.620688	2.226976	271.2312	-13.6196	645.6211
#2	87.62860	715.1644	12.65167	1.792750	338.2289	-6.13635	645.1237
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	307.2970	-1.01701	4.324919	15.35674	112.8599	13830.95	83.25252
#1	308.7137	-1.58286	4.552597	13.05074	112.8650	13841.35	80.89320
#2	305.8802	-.451157	4.097240	17.66274	112.8548	13820.56	85.61185
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	82.57161	11.31988	10.29388	-1.56080	102.5030	504.2774
#1	83.56827	7.332682	9.264244	2.519516	100.0524	505.1106
#2	81.57494	15.30708	11.32352	-5.64111	104.9535	503.4442
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: CVCCV4 Operator: LCM
Run Time: 10/19/07 23:40:18
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	53431.16	532.9569	528.2422	526.9687	51.50457	503.9889	100412.8
#1	53652.06	535.4341	533.0812	528.1688	51.67372	505.6178	100827.1
#2	53210.27	530.4797	523.4031	525.7686	51.33543	502.3601	99998.55
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	508.5161	514.8751	520.3187	51193.81	520.2947	101033.6	521.7312
#1	509.7253	517.2427	520.6659	51419.65	522.5413	101413.5	523.9494
#2	507.3069	512.5076	519.9714	50967.97	518.0480	100653.7	519.5130
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	504.5305	25734.38	538.8235	524.3763	103523.3	527.6887	521.4123
#1	506.1384	25803.73	539.6926	526.6740	104093.8	527.5092	521.8818
#2	502.9226	25665.02	537.9543	522.0787	102952.8	527.8682	520.9429
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q583.1409	505.3129	529.4016	520.1117	509.9282	513.8593	515.1301
#1	Q586.1074	504.5804	530.2737	521.6113	510.6124	514.5961	511.2783
#2	Q580.1743	506.0455	528.5295	518.6121	509.2441	513.1226	518.9819
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	522.8765	553.0354	531.7169	533.6171	519.9744	544.1471
#1	528.1724	548.6245	535.2261	533.3347	509.3276	547.8009
#2	517.5806	557.4464	528.2078	533.8994	530.6211	540.4933
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB4 Operator: LCM
Run Time: 10/19/07 23:49:35
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	7.697141	-1.16265	1.048857	.2440729	-.165348	.3494027	140.4546
#1	8.223939	.3653559	.1049660	.1682335	-.153214	.3718641	145.6198
#2	7.170343	-2.69067	1.992747	.3199123	-.177482	.3269412	135.2894
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	.7790979	.6240609	2.903635	37.81529	-.190117	50.64447	.1944397
#1	.7792074	.5860845	2.380489	34.21703	-.243987	50.26837	.1693795
#2	.7789883	.6620374	3.426781	41.41354	-.136247	51.02057	.2195001
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	.2610730	12.77218	.3862610	.6965573	194.5472	1.821656	.5139622
#1	.0957548	17.11028	-2.02262	.8132292	174.6610	-.362888	.6644712
#2	.4263911	8.434089	2.795139	.5798854	214.4335	4.006200	.3634532
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	.9848904	1.216319	2.100640	1.872300	.1846499	.5101586	4.734197
#1	.7259461	1.934276	2.523489	3.214584	.1737140	.6993185	5.955461
#2	1.243835	.4983631	1.677790	.5300161	.1955859	.3209987	3.512932
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-2.65272	8.526185	-3.68414	7.877777	6.939647	12.59575
#1	-3.34415	2.917354	-4.49305	8.516558	-1.02153	10.23217
#2	-1.96128	14.13502	-2.87524	7.238996	14.90083	14.95933
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: S 710114-036-036-1/1 Operator: LCM
Run Time: 10/19/07 23:58:51
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	53746.97	-3.21937	13.84720	99.53397	.5695196	8.402243	909.7790
#1	54171.70	-6.19067	14.67368	100.4827	.5246463	8.349583	917.4712
#2	53322.23	-.248061	13.02071	98.58521	.6143929	8.454903	902.0868
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	427.0029	19.62623	144.5599	242381.9	37.76490	1376.277	853.0214
#1	429.4613	19.39671	147.8233	244158.6	38.84610	1383.219	858.8658
#2	424.5445	19.85574	141.2965	240605.3	36.68371	1369.335	847.1769
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	99.75405	839.8171	13.91605	.7527481	177.6489	-9.19644	541.1218
#1	100.2533	844.0246	14.51001	.2862008	69.55252	-7.96186	551.1995
#2	99.25485	835.6096	13.32210	1.219296	285.7453	-10.4310	531.0440
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	225.8159	-.379248	4.264941	8.118662	108.2485	11404.48	35.87378
#1	227.4462	-2.17378	4.008527	5.724472	109.2209	11654.60	33.17604
#2	224.1857	1.415286	4.521355	10.51285	107.2761	11154.36	38.57153
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	38.71006	3.862680	18.94220	-7.51455	136.5642	549.2290
#1	41.68072	-3.11322	23.32108	-13.9926	160.5751	552.3478
#2	35.73940	10.83858	14.56332	-1.03647	112.5533	546.1101
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-037-037-1/1 Operator: LCM
Run Time: 10/20/07 00:08:07
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	42712.44	-2.08521	9.266662	59.35855	.5625207	8.836091	772.8390
#1	43050.38	.5194626	9.368381	59.78114	.6361960	8.934147	777.5544
#2	42374.52	-4.68987	9.164942	58.93595	.4888454	8.738035	768.1235
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	490.0080	20.75194	133.7641	247574.9	48.81595	1495.206	639.6882
#1	495.7242	21.28944	133.9964	249989.7	47.13973	1514.434	645.4661
#2	484.2918	20.21443	133.5317	245160.2	50.49217	1475.977	633.9105
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	110.5456	563.1244	12.49326	.8520403	179.3092	-9.54482	612.1069
#1	112.1022	569.0154	10.44643	1.389421	216.0623	-7.55013	615.6576
#2	108.9891	557.2334	14.54008	.3146593	142.5561	-11.5395	608.5562
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	191.8300	-.271082	3.333108	9.732534	63.59802	13367.44	48.55613
#1	194.7380	.1055186	3.132450	11.46639	64.10354	13430.19	48.37935
#2	188.9220	-.647683	3.533765	7.998676	63.09250	13304.70	48.73290
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	48.94537	6.330203	15.57442	-5.72018	155.4366	683.6415
#1	46.51938	3.189394	14.07459	3.134735	158.2680	693.1605
#2	51.37136	9.471013	17.07425	-14.5751	152.6053	674.1226
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-038-038-1/1 Operator: LCM
Run Time: 10/20/07 00:17:42
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	33740.38	-3.47122	10.91883	51.06393	.4058311	9.204265	1814.958
#1	35665.08	-2.25450	11.22096	53.95330	.4483000	9.538334	1903.824
#2	31815.69	-4.68794	10.61671	48.17458	.3633622	8.870195	1726.093
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	473.6672	21.13332	134.4010	255571.5	50.97676	1848.151	725.8295
#1	499.1756	22.29190	143.1438	269532.8	53.63836	1945.605	765.3337
#2	448.1588	19.97474	125.6581	241610.3	48.31515	1750.696	686.3253
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	92.42653	626.7507	13.53481	1.108702	10.87437	-11.6393	629.0373
#1	97.70556	661.2223	15.14152	1.263712	-12.4412	-11.8337	665.1022
#2	87.14751	592.2791	11.92811	.9536914	34.18996	-11.4450	592.9725
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	212.8103	-1.55651	4.248112	5.313934	62.55264	13952.42	46.63969
#1	223.8300	-1.74264	4.307683	5.991783	66.23521	14721.61	49.12495
#2	201.7906	-1.37037	4.188541	4.636086	58.87007	13183.22	44.15445
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	53.14482	-.893419	20.74854	-10.5363	150.0265	560.5736
#1	55.89454	.1099443	22.65694	-9.38173	165.5014	597.8944
#2	50.39511	-1.89678	18.84014	-11.6909	134.5517	523.2527
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-039-039-1/1 Operator: LCM
Run Time: 10/20/07 00:26:58
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	32212.95	4.788949	11.87703	109.2134	.5102074	11.02078	2358.078
#1	33950.88	6.547002	13.33134	115.1456	.4641625	11.64842	2480.124
#2	30475.02	3.030895	10.42272	103.2812	.5562522	10.39314	2236.032
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	455.9375	25.97564	155.8542	238874.3	314.0478	2181.191	1029.766
#1	480.4515	27.24864	165.1524	251920.7	330.9520	2292.323	1085.754
#2	431.4236	24.70264	146.5560	225827.9	297.1436	2070.059	973.7788
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	95.33879	912.9792	11.74497	1.438037	-38.2653	-10.3997	625.3751
#1	99.82284	959.5723	10.01813	1.671173	-11.1268	-5.79738	660.8506
#2	90.85474	866.3862	13.47182	1.204901	-65.4038	-15.0020	589.8997
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	255.9767	-.821359	3.663975	7.187215	122.3191	13807.31	304.0410
#1	268.4676	-.948099	4.137809	8.597258	128.8276	14564.55	312.3901
#2	243.4858	-.694619	3.190141	5.777172	115.8106	13050.06	295.6920
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	319.0507	3.762806	15.73563	-7.43626	106.5284	535.4016
#1	340.2324	-.774919	15.41412	-6.59828	113.4116	572.8978
#2	297.8691	8.300531	16.05714	-8.27425	99.64518	497.9055
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: IAICSAI Operator: LCM
Run Time: 10/20/07 00:48:06
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	508028.4	1.360316	-1.10594	.8101826	.3421986	Q9.891445	513688.9
#1	507094.5	2.005250	.5661876	.8099715	.3072878	Q9.661106	513174.7
#2	508962.3	.7153816	-2.77807	.8103938	.3771095	Q10.12178	514203.1
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	500000.0	.0000000	.0000000	.0000000	.0000000	.0000000	500000.0
Range	100000.0	10.00000	10.00000	2.500000	1.000000	5.000000	100000.0

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	2.414576	Q3.421591	3.811180	198667.4	3.123376	504075.7	Q11.81970
#1	2.482375	Q3.604876	4.167530	198017.9	2.292638	503254.1	Q11.73137
#2	2.346777	Q3.238305	3.454830	199317.0	3.954114	504897.3	Q11.90804
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.0000000	.0000000	.0000000	200000.0	.0000000	500000.0	.0000000
Range	2.500000	2.500000	5.000000	40000.00	5.000000	100000.0	2.500000

Elem	NI	K	SE	AG	NA	TL	V
Avge	2.440184	-.343780	Q10.23670	.3827393	138.0077	-11.8535	.4268442
#1	1.785073	-.624263	Q13.28581	.9893978	107.6248	-13.5788	1.174182
#2	3.095296	-.063297	7.187589	-.223919	168.3906	-10.1281	-.320493
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q26.27329	4.598727	.1199401	.7186428	Q4.292526	1.707706	-11.8761
#1	Q26.51411	5.153264	.1042531	-.595432	Q4.269785	1.834507	-11.0055
#2	Q26.03246	4.044190	.1356272	2.032718	Q4.315267	1.580905	-12.7467
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	7.500000	2.500000	12.50000	2.500000	12.50000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	10.62259	12.58685	9.061062	-14.2640	31.15945	Q42.37767
#1	8.941139	18.96482	10.44575	-14.8848	31.86154	Q43.47770
#2	12.30404	6.208886	7.676376	-13.6431	30.45735	Q41.27764
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value						.0000000
Range						25.00000

Method: TRACE1 Sample Name: IBICSABI Operator: LCM
Run Time: 10/20/07 00:57:22
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	509380.7	651.4762	110.5648	538.6020	506.4777	968.0010	511777.2
#1	507518.6	650.0432	111.5188	536.5355	504.6673	963.9780	510581.3
#2	511242.8	652.9091	109.6107	540.6685	508.2881	972.0240	512973.1
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	600.0000	100.0000	500.0000	500.0000	1000.000	500000.0
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	495.4186	492.8624	546.8939	199215.8	52.05975	503551.4	521.7050
#1	493.2478	491.0471	545.7257	198637.2	53.16378	501722.4	520.0603
#2	497.5895	494.6777	548.0620	199794.4	50.95572	505380.3	523.3497
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	200000.0	50.00000	500000.0	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	968.0764	5691.695	59.90328	216.7808	11084.21	98.10099	513.7441
#1	963.3647	5674.602	58.68767	216.0720	11063.21	94.92423	512.4262
#2	972.7881	5708.789	Q61.11887	217.4896	11105.22	101.2777	515.0620
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	5000.000	50.00000	200.0000	10000.00	100.0000	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	974.1527	1029.354	1050.502	1043.206	519.3220	1007.059	42.17808
#1	969.0723	1025.978	1043.017	1042.048	517.4299	1003.392	43.39316
#2	979.2331	1032.731	1057.986	1044.364	521.2142	1010.725	40.96300
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1000.000	1000.000	1000.000	1000.000	500.0000	1000.000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	57.00016	68.16992	55.76952	187.7530	Q218.7070	Q1392.020
#1	58.04866	64.87126	55.59547	181.9758	Q212.6766	Q1389.149
#2	55.95166	71.46859	55.94355	193.5301	Q224.7375	Q1394.889
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Fail
Value				200.0000	400.0000	1000.000
Range				20.00000	20.00000	20.00000

Method: TRACE1 Sample Name: CVCCV3 Operator: LCM
Run Time: 10/20/07 01:06:57
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	52990.02	528.6293	521.1643	521.7764	51.14889	499.5379	98474.35
#1	52932.38	529.2251	518.8827	520.7575	51.19894	500.6947	98679.20
#2	53047.67	528.0335	523.4459	522.7952	51.09883	498.3810	98269.51
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	503.7158	511.8508	517.5796	50792.09	517.6630	99592.52	516.7250
#1	504.3213	512.8277	517.1671	50861.91	519.6569	99737.20	517.2344
#2	503.1103	510.8739	517.9922	50722.27	515.6690	99447.84	516.2155
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	500.6126	25513.79	536.1754	522.6931	102741.6	529.3372	518.5050
#1	500.5815	25416.47	535.8891	522.5494	102472.3	527.4836	519.0447
#2	500.6437	25611.11	536.4617	522.8369	103010.9	531.1908	517.9653
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q580.4230	501.9462	527.6560	519.4109	506.6707	511.3797	512.8882
#1	Q580.5429	502.8627	527.8705	518.0174	506.4201	511.9513	515.5745
#2	Q580.3030	501.0296	527.4415	520.8044	506.9212	510.8081	510.2018
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	520.0499	547.2481	530.6387	524.1857	520.2219	539.1325
#1	521.6976	550.6866	528.4900	520.1409	522.6343	538.2042
#2	518.4021	543.8095	532.7874	528.2305	517.8095	540.0608
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB3 Operator: LCM
Run Time: 10/20/07 01:16:12
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	28.18133	-.930780	-.899287	.2428982	-.211906	.3024029	124.9512
#1	35.66848	-2.89767	-.812833	.2216131	-.222618	.2610720	133.7151
#2	20.69418	1.036107	-.985742	.2641832	-.201194	.3437337	116.1872
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	.9291893	.8779906	3.056312	30.44723	.0300697	48.14088	.2081340
#1	.8156047	.6412486	3.043603	38.82527	-.397130	56.67747	.2197272
#2	1.042774	1.114733	3.069021	22.06918	.4572700	39.60430	.1965407
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	1.364535	37.82699	.4746595	.6578321	167.9603	.7238932	.2448785
#1	1.412918	31.10183	-.694754	.7803221	84.85757	-.395495	-.158085
#2	1.316152	44.55215	1.644073	.5353420	251.0631	1.843281	.6478418
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	1.525839	1.445952	1.833655	1.794792	.1778282	.2961801	4.951697
#1	1.627066	1.496572	2.758715	.8129162	.1925258	.1914341	5.615601
#2	1.424613	1.395332	.9085954	2.776668	.1631306	.4009260	4.287794
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-2.43118	4.463760	-1.52032	10.52107	-9.48284	10.73812
#1	-3.40393	6.434081	-4.25960	5.019177	-36.8818	12.23471
#2	-1.45843	2.493440	1.218953	16.02296	17.91608	9.241530
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

GPL Laboratories, LLLP

ICP ANALYSIS LOG

Document Control No: GP_M_178

Instrument ID: Trace (424690) Inst. Method: Trace1 Nebulizer: Conical Analytical Batch No: 071022

Profile: -0.004 ti Intensity: 7732 At Setting: 429

212 of 296

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
710114	SC&A	100991	009	S	10.17.07	60/0C	Pb only 10x all
710114	↓	100994	010			↓	
710117	USACE	100996				60/0B	2x
710119	SC&A	100994	↓	↓	↓	60/0C	↓ 10x all rerun of 2006

Joe 24/Oct/07

Source Solution Numbers

Stds.	Number	Stds.	Number
S0	129-116-10	ICV	41804
S1	41930	CCV	41839
S2	41931	ICSA	41947
S3	41944	ICSAB	41948
S4	41816	CRI	
S5		Low Ck	41820
Ints	41924	LR	41613

Post Digestion Spikes

Spike 9.9 mls of sample with 0.1 mls of 41813

Samples:

710114- 040-040-L
060-060-L
710117- 001-001-L

Analyst: Joe Date: 24/Oct/2007 Reviewed: RA Date: 10-24-07

Supersedes GP_M_165

ICP ANALYSIS LOG

GPL - Maryland Laboratory — ICPST Analysis Log

Seq	Sample Name	DB	Date	Time	Seq	Sample Name	DB	Date	Time	Seq	Sample Name	DB	Date	Time
1	STD0		10/22/2007	12:25	31	S 710114-047-047-1/1		10/22/2007	17:00	61	CVCCV4 Zn		10/22/2007	22:01
2	STD1		10/22/2007	12:34	32	S 710114-048-048-1/1		10/22/2007	17:10	62	BCCCB4		10/22/2007	22:10
3	STD2		10/22/2007	12:44	33	S 710114-049-049-1/1		10/22/2007	17:27	63	S 710114-065-065-1/1		10/22/2007	22:20
4	STD3		10/22/2007	12:53	34	S 710114-050-050-1/1		10/22/2007	17:36	64	S 710114-066-066-1/1		10/22/2007	22:29
5	STD4		10/22/2007	13:00	35	S 710114-051-051-1/1		10/22/2007	17:46	65	S 710115-001-001-1/1		10/22/2007	22:38
6	MCV		10/22/2007	13:06	36	S 710114-052-052-1/1		10/22/2007	17:56	66	SP710115-001-001-1/		10/22/2007	22:48
7	ICB		10/22/2007	13:16	37	S 710114-053-053-1/1		10/22/2007	18:04	67	SD710115-001-001-1/		10/22/2007	22:57
8	CVCCV Zn		10/22/2007	13:24	38	CVCCV3 Zn		10/22/2007	18:17	68	PS710115-001-001-1/		10/22/2007	23:06
9	BCCCB		10/22/2007	13:34	39	BCCCB3		10/22/2007	18:26	69	SE710115-001-001-1/		10/22/2007	23:16
10	PQL		10/22/2007	13:43	40	S 710114-054-054-1/1		10/22/2007	18:35	70	S 710115-001-001-1/1		10/22/2007	23:25
11	MICSAI Mg, Zn		10/22/2007	13:52	41	S 710114-055-055-1/1		10/22/2007	18:45	71	S 710115-002-002-1/1		10/22/2007	23:35
12	MICSAB1		10/22/2007	14:02	42	S 710114-056-056-1/1		10/22/2007	18:54	72	S 710115-003-003-1/1		10/22/2007	23:44
13	LR		10/22/2007	14:11	43	S 710114-057-057-1/1		10/22/2007	19:04	73	CVCCV4 Zn		10/22/2007	23:55
14	CVCCV3 Zn		10/22/2007	14:27	44	S 710114-058-058-1/1		10/22/2007	19:13	74	BCCCB4		10/23/2007	0:05
15	BCCCB3		10/22/2007	14:36	45	S 710114-059-059-1/1		10/22/2007	19:22	75	S 710115-004-004-1/1		10/23/2007	0:15
16	BLK 009		10/22/2007	14:46	46	BLK 010		10/22/2007	19:38	76	S 710115-005-005-1/1		10/23/2007	0:24
17	BKS 009		10/22/2007	14:55	47	BKS 010		10/22/2007	19:44					
18	S 710114-040-040-1/1		10/22/2007	15:04	48	S 710114-060-060-1/1		10/22/2007	19:54					
19	SP710114-040-040-1/		10/22/2007	15:13	49	SP710114-060-060-1/		10/22/2007	20:03					
20	SD710114-040-040-1/		10/22/2007	15:23	50	CVCCV4 Zn		10/22/2007	20:16					
21	PS710114-040-040-1/		10/22/2007	15:32	51	BCCCB4		10/22/2007	20:25					
22	SE710114-040-040-1/		10/22/2007	15:41	52	SD710114-060-060-1/		10/22/2007	20:34					
23	S 710114-041-041-1/1		10/22/2007	15:51	53	PS710114-060-060-1/		10/22/2007	20:44					
24	S 710114-042-042-1/1		10/22/2007	16:00	54	SE710114-060-060-1/		10/22/2007	20:53					
25	S 710114-043-043-1/1		10/22/2007	16:10	55	S 710114-061-061-1/1		10/22/2007	21:02					
26	CVCCV3 Zn		10/22/2007	16:22	56	S 710114-062-062-1/1		10/22/2007	21:11					
27	BCCCB3		10/22/2007	16:31	57	S 710114-063-063-1/1		10/22/2007	21:21					
28	S 710114-044-044-1/1		10/22/2007	16:40	58	S 710114-064-064-1/1		10/22/2007	21:30					
29	S 710114-045-045-1/1		10/22/2007	16:50	59	MICSAI Mg, Zn		10/22/2007	21:47					
30	S 710114-046-046-1/1		10/22/2007	16:59	60	BICSAB1		10/22/2007	21:57					

Analyst Signature: [signature] Date: 10/22/2007 Analyst Signature:

Sample Dilutions:

Method: TRACE1 Standard: STD0
Run Time: 10/22/07 12:25:29

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	.02119	.00445	.00139	.00619	-.00608	-.00115	.09142
#1	.02128	.00533	.00197	.00608	-.00595	-.00163	.09071
#2	.02111	.00358	.00080	.00630	-.00622	-.00067	.09213

Elem	CR	CO	CU	FE	MG	MN	NI
Avge	.00156	-.00079	.02882	.00288	-.00016	.00269	-.00723
#1	.00155	-.00061	.02861	.00320	-.00024	.00256	-.00595
#2	.00157	-.00096	.02904	.00256	-.00008	.00283	-.00851

Elem	K	AG	NA	TL	V	ZN	B
Avge	.00642	.00176	-.00168	-.00348	.00012	.00228	.00199
#1	.00523	.00168	-.00227	-.00424	.00016	.00224	.00200
#2	.00761	.00184	-.00109	-.00272	.00008	.00232	.00197

Elem	MO	SN	SR	TI	1/PB	2/PB	1/SE
Avge	.00039	.00093	.00618	.00064	-.00526	-.00104	-.00971
#1	-.00024	.00197	.00613	.00067	-.00539	-.00261	-.00925
#2	.00101	-.00011	.00622	.00061	-.00512	.00053	-.01017

Elem	2/SE	TE	ZR	SI
Avge	.01178	-.01867	3.9275	.06954
#1	.01189	-.01477	3.9410	.06906
#2	.01166	-.02258	3.9140	.07003

Method: TRACE1 Standard: STD1
Run Time: 10/22/07 12:34:48

Elem	AL	SB	AS	BA	BE	CD	CR
Avge	5.8241	.43710	.35950	2.8445	.12306	2.6751	.77072
#1	5.8403	.43719	.35934	2.8468	.12394	2.6791	.77267
#2	5.8080	.43701	.35965	2.8422	.12218	2.6711	.76878

Elem	CO	CU	FE	MN	NI	AG	TL
Avge	.86235	.93543	6.7982	1.2619	1.3114	.50583	.18837
#1	.86421	.93582	6.8076	1.2635	1.3160	.50645	.18907
#2	.86048	.93503	6.7887	1.2604	1.3069	.50522	.18767

Elem	V	ZN	B	MO	SN	SR	TI
Avge	.20900	.40474	.70378	.52341	.45556	3.4568	1.6896
#1	.20997	.40699	.70293	.52319	.45720	3.4612	1.6946
#2	.20803	.40249	.70463	.52363	.45392	3.4524	1.6847

Elem	1/PB	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	1.1699	1.3899	.38514	.77709	.50915	4.5766	.32391
#1	1.1788	1.3883	.38807	.77674	.51279	4.5805	.32435
#2	1.1610	1.3916	.38221	.77745	.50552	4.5727	.32347

Method: TRACE1 Standard: STD2
Run Time: 10/22/07 12:44:27

Elem	AL	SB	AS	BA	BE	CD	CR
Avge	11.590	.86199	.71699	5.6731	.24931	5.3141	1.5346
#1	11.600	.86242	.72043	5.6856	.24893	5.3175	1.5331
#2	11.581	.86155	.71356	5.6606	.24970	5.3107	1.5362

Elem	CO	CU	FE	MN	NI	AG	TL
Avge	1.7198	1.8361	13.561	2.5132	2.6158	1.0061	.37911
#1	1.7201	1.8362	13.571	2.5149	2.6142	1.0103	.37937
#2	1.7194	1.8360	13.552	2.5114	2.6174	1.0019	.37885

Elem	V	ZN	B	MO	SN	SR	TI
Avge	.41467	.79963	1.4039	1.0435	.90970	6.8731	3.3499
#1	.41409	.80078	1.4007	1.0432	.91041	6.8868	3.3502
#2	.41525	.79848	1.4072	1.0437	.90899	6.8594	3.3496

Elem	1/PB	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	2.3205	2.7751	.77104	1.5435	1.0282	5.1651	.57725
#1	2.3205	2.7773	.76902	1.5450	1.0327	5.1586	.57798
#2	2.3204	2.7729	.77306	1.5420	1.0236	5.1716	.57652

Method: TRACE1 Standard: STD3
Run Time: 10/22/07 12:53:45

Elem	CA	MG	K	NA
Avge	27.281	8.9228	10.435	2.6699
#1	27.291	8.9244	10.427	2.6655
#2	27.271	8.9212	10.443	2.6742

Method: TRACE1 Standard: STD4
Run Time: 10/22/07 13:00:27

Elem	1/PB	2/PB
Avge	4.6220	5.5353
#1	4.6489	5.5568
#2	4.5950	5.5138

Method: TRACE1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AL	308.215	Multiple	Standards	8628.68	-183.269	10/22/07 12:44:27
SB	206.838	Multiple	Standards	1157.23	-5.16599	10/22/07 12:44:27
AS	189.042	Multiple	Standards	1384.92	-1.92173	10/22/07 12:44:27
BA	493.409	Multiple	Standards	176.401	-1.09384	10/22/07 12:44:27
BE	313.042	Multiple	Standards	394.572	2.39840	10/22/07 12:44:27
CD	226.502	Multiple	Standards	189.594	.208600	10/22/07 12:44:27
CA	317.933	STD3	STD0	1.00415	-.058736	10/22/07 01:00:27
CR	267.716	Multiple	Standards	650.620	-1.01958	10/22/07 12:44:27
CO	228.616	Multiple	Standards	581.422	.453452	10/22/07 12:44:27
CU	324.753	Multiple	Standards	551.948	-15.9129	10/22/07 12:44:27
FE	271.441	Multiple	Standards	7373.28	-21.5367	10/22/07 12:44:27
PB	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
MG	279.078	STD3	STD0	.976716	.000278	10/22/07 01:00:27
MN	257.610	Multiple	Standards	397.084	-1.07383	10/22/07 12:44:27
NI	231.604	Multiple	Standards	380.391	2.74334	10/22/07 12:44:27
K	766.491	STD3	STD0	.991859	-.010490	10/22/07 01:00:27
SE	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
AG	328.068	Multiple	Standards	993.869	-1.75453	10/22/07 12:44:27
NA	330.232	STD3	STD0	.851647	.000074	10/22/07 01:00:27
TL	190.864	Multiple	Standards	2665.28	9.27359	10/22/07 12:44:27
V	292.402	Multiple	Standards	2393.77	-.296885	10/22/07 12:44:27
ZN	206.200	Multiple	Standards	1249.12	-2.86077	10/22/07 12:44:27
B	249.678	Multiple	Standards	711.938	-1.41631	10/22/07 12:44:27
MO	202.030	Multiple	Standards	957.346	-.374151	10/22/07 12:44:27
SN	189.989	Multiple	Standards	1102.52	-1.02948	10/22/07 12:44:27
SR	421.552	Multiple	Standards	145.263	-.903293	10/22/07 12:44:27
TI	334.941	Multiple	Standards	297.334	-.201014	10/22/07 12:44:27
1/PB	220.351	Multiple	Standards	443.532	2.38409	10/22/07 01:00:27
2/PB	220.352	Multiple	Standards	356.059	.331985	10/22/07 01:00:27
1/SE	196.021	Multiple	Standards	1269.59	12.3137	10/22/07 12:44:27
2/SE	196.022	Multiple	Standards	625.458	-7.36531	10/22/07 12:44:27
TE	214.200	Multiple	Standards	999.310	18.6509	10/22/07 12:44:27
ZR	349.600	Multiple	Standards	780.121	-3063.98	10/22/07 12:44:27
SI	288.158	Multiple	Standards	1967.66	-136.840	10/22/07 12:44:27

Method: TRACE1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AL	308.215	STD0	.000000	-.395205	.395205
		STD1	50000.0	50071.4	-71.4219
		STD2	100000.	99826.7	173.320
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SB	206.838	STD0	.000000	-.011209	.011209
		STD1	500.000	500.661	-.660797
		STD2	1000.00	992.354	7.64563
CorCoef:	0.99999				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AS	189.042	STD0	.000000	-.001058	.001058
		STD1	500.000	495.952	4.04834
		STD2	1000.00	991.057	8.94330
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
BA	493.409	STD0	.000000	-.002135	.002135
		STD1	500.000	500.677	-.677002
		STD2	1000.00	999.646	.354004
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
BE	313.042	STD0	.000000	-.001423	.001423
		STD1	50.0000	50.9545	-.954521
		STD2	100.000	100.771	-.770966
CorCoef:	0.99998				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CD	226.502	STD0	.000000	-.008829	.008829
		STD1	500.000	507.394	-7.39374
		STD2	1000.00	1007.72	-7.72455
CorCoef:	0.99999				
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
CA	317.933	STD0	.033061	.091418	-.058357
		STD3	27.3352	27.2807	.054573
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CR	267.716	STD0	.000000	-.004272	.004272
		STD1	500.000	500.428	-.427948
		STD2	1000.00	997.438	2.56195
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CO	228.616	STD0	.000000	-.004135	.004135
		STD1	500.000	501.840	-1.84045
		STD2	1000.00	1000.37	-.372925
CorCoef:	1.00000				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CU	324.753	STD0	.000000	-.004092	.004092
		STD1	500.000	500.395	-.394775
		STD2	1000.00	997.516	2.48352
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
FE	271.441	STD0	.000000	-.295728	.295728
		STD1	50000.0	50103.3	-103.266
		STD2	100000.	99970.0	30.0469
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
PB	220.353	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
MG	279.078	STD0	.000122	-.000160	.000282
		STD3	8.71535	8.92284	-.207485
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
MN	257.610	STD0	.000000	-.003970	.003970
		STD1	500.000	500.020	-.019958
		STD2	1000.00	996.864	3.13580
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
NI	231.604	STD0	.000000	-.006778	.006778
		STD1	500.000	501.606	-1.60556
		STD2	1000.00	997.789	2.21106
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
K	766.491	STD0	-.004126	.006416	-.010542
		STD3	10.3396	10.4350	-.095439
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SE	196.026	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AG	328.068	STD0	.000000	-.004695	.004695
		STD1	500.000	500.978	-.977539
		STD2	1000.00	998.199	1.80109
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
NA	330.232	STD0	-.001357	-.001680	.000323
		STD3	2.27386	2.66987	-.396009

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TL	190.864	STD0	.000000	-.003686	.003686
		STD1	500.000	511.331	-11.3311
		STD2	1000.00	1019.71	-19.7138

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD0	.000000	-.009583	.009583
		STD1	500.000	499.996	.003906
		STD2	1000.00	992.326	7.67413

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
ZN	206.200	STD0	.000000	-.011793	.011793
		STD1	500.000	502.708	-2.70850
		STD2	1000.00	995.983	4.01703

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.678	STD0	.000000	-.001458	.001458
		STD1	500.000	499.633	.366852
		STD2	1000.00	998.100	1.90039

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
MO	202.030	STD0	.000000	-.003562	.003562
		STD1	500.000	500.712	-.712372
		STD2	1000.00	998.575	1.42468

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SN	189.989	STD0	.000000	-.000674	.000674
		STD1	500.000	501.235	-1.23480
		STD2	1000.00	1001.93	-1.93048

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SR	421.552	STD0	.000000	-.006232	.006232
		STD1	500.000	501.246	-1.24634
		STD2	1000.00	997.507	2.49268

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TI	334.941	STD0	.000000	-.010660	.010660
		STD1	500.000	502.183	-2.18307
		STD2	1000.00	995.838	4.16223

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/PB	220.351	STD0	.000000	.053312	-.053312
		STD1	500.000	521.289	-21.2886
		STD2	1000.00	1031.59	-31.5883
		STD4	2000.00	2052.37	-52.3748

CorCoef: 0.99968

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/PB	220.352	STD0	.000000	-.038168	.038168
		STD1	500.000	495.226	4.77417
		STD2	1000.00	988.434	11.5661
		STD4	2000.00	1971.23	28.7747

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/SE	196.021	STD0	.000000	-.014185	.014185
		STD1	500.000	501.286	-1.28607
		STD2	1000.00	991.224	8.77606

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/SE	196.022	STD0	.000000	.000844	-.000844
		STD1	500.000	478.673	21.3272
		STD2	1000.00	958.021	41.9795

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TE	214.200	STD0	.000000	-.011003	.011003
		STD1	500.000	527.451	-27.4505
		STD2	1000.00	1046.10	-46.0988

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
ZR	349.600	STD0	.000000	-.058988	.058988
		STD1	500.000	506.299	-6.29901
		STD2	1000.00	965.444	34.5562

CorCoef: 0.99960

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SI	288.158	STD0	.000000	-.002537	.002537
		STD1	500.000	500.508	-.507660
		STD2	1000.00	998.985	1.01532

CorCoef: 1.00000

Method: TRACE1 Sample Name: IVICV Operator: LCM
Run Time: 10/22/07 13:06:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	5070.931	404.3174	Q428.5363	Q421.8648	41.82409	41.91139	Q4742.968
#1	5069.044	402.3692	Q427.9779	Q422.0442	41.80641	41.92838	Q4741.604
#2	5072.817	406.2657	Q429.0948	Q421.6853	41.84177	41.89439	Q4744.331
Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	QC Fail
Value	5000.000	400.0000	400.0000	400.0000	40.00000	40.00000	5000.000
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	404.4704	Q429.4758	401.1905	5078.852	417.2563	4973.012	411.5382
#1	404.2461	Q429.4040	401.1044	5067.548	415.9855	4969.515	411.4495
#2	404.6947	Q429.5476	401.2767	5090.157	418.5270	4976.509	411.6270
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	400.0000	400.0000	400.0000	5000.000	400.0000	5000.000	400.0000
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	416.1112	Q4706.461	412.0034	402.5890	9658.328	404.4175	414.4036
#1	414.5260	Q4720.050	410.6748	402.5529	9692.792	407.5587	414.3644
#2	417.6963	Q4692.871	413.3320	402.6253	9623.864	401.2763	414.4427
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	400.0000	5000.000	400.0000	400.0000	10000.00	400.0000	400.0000
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q425.5657	Q422.7084	406.9589	410.4431	407.1563	409.0112	410.6648
#1	Q425.6835	Q424.0016	406.3320	408.3943	407.0583	409.3774	412.9679
#2	Q425.4479	Q421.4153	407.5858	412.4917	407.2543	408.6449	408.3617
Errors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	400.0000	400.0000	400.0000	400.0000	400.0000	400.0000	
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	420.5515	411.6486	412.1805	Q-.724816	Q7.252534	Q125.4648
#1	417.4938	414.4459	408.7889	Q-2.16623	Q5.958121	Q123.9189
#2	423.6092	408.8512	415.5720	Q.7165947	Q8.546947	Q127.0107
Errors	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Fail	QC Fail
Value				400.0000	400.0000	400.0000
Range				5.000000	5.000000	5.000000

Method: TRACE1 Sample Name: IBICB Operator: LCM
Run Time: 10/22/07 13:15:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	-8.46323	-1.18280	-4.87687	-.011725	-.164721	.0841732	-27.8621
#1	-6.56631	-2.61258	-7.45610	-.027539	-.102531	.0511164	-27.6309
#2	-10.3601	.2469755	-2.29763	.0040884	-.226910	.1172299	-28.0933
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.634387	-.453697	.0658139	-6.23559	.3241460	-5.43448	-.534116
#1	-.633322	-.393991	-.065984	-10.7548	.3157253	-5.46145	-.559192
#2	-.635452	-.513403	.1976113	-1.71641	.3325667	-5.40751	-.509041
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-.931933	-21.4600	1.668816	.4124778	-228.950	-2.73316	-.363445
#1	-1.29058	-26.3763	1.093807	.7396770	-370.150	-4.52060	-.878353
#2	-.573281	-16.5436	2.243825	.0852787	-87.7504	-.945716	.1514618
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	5000.000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.53323	.2894038	.9795475	-.910427	.1012578	.0113897	2.870428
#1	-1.54614	.6390238	1.460012	-.791519	.1315398	.1280073	4.220245
#2	-1.52032	-.060216	.4990835	-1.02934	.0709758	-.105228	1.520612
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	20.00000	5.000000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-.949376	6.193704	-.594089	-2.09777	-20.6990	-1.44699
#1	-1.63690	10.12115	-3.42030	2.272191	-13.3349	-2.82655
#2	-.261857	2.266260	2.232125	-6.46772	-28.0630	-.067423
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: CVCCV Operator: LCM
Run Time: 10/22/07 13:24:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50942.62	502.8790	502.4840	498.7436	49.39314	492.9010	98876.81
#1	51039.20	499.9016	503.2029	499.7632	49.52235	493.4670	99110.22
#2	50846.03	505.8563	501.7650	497.7240	49.26393	492.3350	98643.41
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	497.0912	492.8272	509.1947	49211.55	498.6114	98925.46	496.8280
#1	498.4120	493.7855	510.3288	49267.02	502.7905	99149.14	497.1624
#2	495.7704	491.8689	508.0606	49156.08	494.4324	98701.78	496.4936
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	492.4062	24397.27	504.4660	514.6527	99061.03	506.3516	501.4823
#1	493.5467	24464.53	509.8832	515.8972	99063.74	505.4569	502.5026
#2	491.2657	24330.01	499.0488	513.4082	99058.31	507.2463	500.4620
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q565.4778	513.1920	497.6257	499.4046	498.9171	503.7789	488.9313
#1	Q567.9387	513.3773	495.6950	500.9257	500.1966	505.0860	495.1008
#2	Q563.0170	513.0068	499.5563	497.8835	497.6375	502.4717	482.7618
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	503.4511	500.7103	506.3433	500.1729	486.8187	529.6710
#1	506.6349	506.9262	511.3612	510.4593	477.7585	532.1542
#2	500.2672	494.4944	501.3255	489.8866	495.8789	527.1879
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB Operator: LCM
Run Time: 10/22/07 13:34:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	-2.27475	-.866776	-3.48818	.0271697	-.098221	-.103543	-25.8323
#1	-.857564	-.167063	-3.22788	.0035674	-.098651	-.026802	-24.3538
#2	-3.69193	-1.56649	-3.74848	.0507720	-.097792	-.180284	-27.3108
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.143306	-.204252	.2506921	6.478524	.0640920	17.39489	-.715188
#1	-.195772	-.266898	.0669034	4.500903	.3379721	18.71828	-.741961
#2	-.090840	-.141606	.4344807	8.456145	-.209788	16.07151	-.688416
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-.186321	-11.9290	-.022160	.0654457	-36.4050	-2.92103	-.199450
#1	-.432514	-10.1199	-.884196	.0389097	9.929245	-3.99967	-.103090
#2	.0598725	-13.7381	.8398773	.0919817	-82.7392	-1.84239	-.295810
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.31353	.3954665	1.017939	.5737536	.0531205	.0472056	-1.00057
#1	-1.44788	.2902281	.8376520	1.702198	.0473713	.0152148	-1.37784
#2	-1.17919	.5007049	1.198225	-.554691	.0588696	.0791965	-.623305
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.5960602	-1.30958	.6210828	.4989108	-24.3686	1.214547
#1	1.195514	-1.84124	-.406162	-.277279	-29.2021	.3043895
#2	-.003393	-.777914	1.648327	1.275101	-19.5351	2.124704
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: PQL Operator: LCM
Run Time: 10/22/07 13:43:37
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	191.7049	17.24064	16.95387	4.999706	2.097104	6.183129	905.0641
#1	191.2015	Q15.54905	18.38623	4.903738	2.075315	5.897473	899.9331
#2	192.2083	18.93222	Q15.52152	5.095674	2.118892	6.468784	910.1951
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	200.0000	20.00000	20.00000	5.000000	2.000000	6.000000	1000.000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	4.583242	4.264766	10.44969	144.2367	9.871090	254.3064	4.136384
#1	4.554248	4.229501	10.39758	134.3132	9.856519	247.4555	4.061231
#2	4.612236	4.300032	10.50180	154.1602	9.885661	261.1572	4.211537
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.000000	5.000000	10.00000	150.0000	10.00000	250.0000	5.000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	9.801552	213.6817	22.01867	4.955719	2331.118	31.72302	10.58391
#1	9.458331	208.9798	23.79858	4.490889	2306.723	30.30072	10.59602
#2	10.14477	218.3837	20.23876	5.420550	2355.513	33.14531	10.57181
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.00000	250.0000	20.00000	5.000000	2500.000	30.00000	10.00000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	19.01236	16.24526	5.621354	23.59352	5.017180	25.38882	7.540691
#1	18.57948	16.37182	5.303118	23.83165	4.980596	25.49511	6.233820
#2	19.44525	16.11870	5.939591	23.35540	5.053765	25.28253	8.847562
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	11.03580	20.99237	22.53145	-1.81195	-4.41667	57.15238
#1	11.66738	21.08830	25.15335	-3.48165	9.298478	55.63868
#2	10.40422	20.89644	19.90956	-.142251	-18.1318	58.66608
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						50.00000
Range						20.00000

Method: TRACE1 Sample Name: IAICSAI Operator: LCM
Run Time: 10/22/07 13:52:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	498656.1	-.676161	-3.86368	.7404581	.5210534	.7609205	502004.2
#1	498882.1	-3.23031	-5.14236	.7494361	.5609304	.6615105	504685.8
#2	498430.0	1.877990	-2.58499	.7314801	.4811765	.8603306	499322.6
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	.0000000	.0000000	.0000000	.0000000	.0000000	500000.0
Range	100000.0	10.00000	10.00000	2.500000	1.000000	5.000000	100000.0

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	1.745380	2.320639	2.605908	190890.5	2.920848	494922.7	Q11.56154
#1	1.946070	2.229577	2.923752	191107.2	3.628740	496262.2	Q11.55877
#2	1.544689	2.411700	2.288065	190673.7	2.212957	493583.2	Q11.56432
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.0000000	.0000000	.0000000	200000.0	.0000000	500000.0	.0000000
Range	2.500000	2.500000	5.000000	40000.00	5.000000	100000.0	2.500000

Elem	NI	K	SE	AG	NA	TL	V
Avge	2.734772	-24.9662	4.397982	-.326917	-168.132	-9.32876	.4997715
#1	2.764436	-24.0167	6.162947	-.236061	-163.364	-6.74466	.6760133
#2	2.705109	-25.9157	2.633016	-.417773	-172.900	-11.9129	.3235295
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q22.22970	2.265889	-.013738	-3.79062	Q4.276290	1.345782	-10.3169
#1	Q22.53895	2.618587	.7305371	-2.40142	Q4.280365	1.300064	-9.54109
#2	Q21.92044	1.913192	-.758012	-5.17981	Q4.272216	1.391500	-11.0928
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	7.500000	2.500000	12.50000	2.500000	12.50000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	9.539284	7.100849	3.046226	-4.29108	2.681422	Q35.15243
#1	10.21313	8.104180	5.191986	-.583188	17.09626	Q35.49021
#2	8.865440	6.097518	.9004669	-7.99898	-11.7334	Q34.81466
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value						.0000000
Range						25.00000

Method: TRACE1 Sample Name: IBICSABI Operator: LCM
Run Time: 10/22/07 14:02:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	500768.9	618.5963	99.89535	518.0416	485.0344	941.6838	499119.9
#1	500822.5	622.4219	103.6766	517.9351	484.1236	943.5876	501211.7
#2	500715.2	614.7707	96.11414	518.1482	485.9452	939.7800	497028.1
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	600.0000	100.0000	500.0000	500.0000	1000.000	500000.0
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	485.0864	472.0101	535.4206	191728.0	53.75608	494012.1	501.0850
#1	486.3155	473.1122	534.3304	192262.0	53.58218	495383.9	502.2354
#2	483.8574	470.9079	536.5108	191193.9	53.92999	492640.3	499.9346
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	200000.0	50.00000	500000.0	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	942.0779	5462.680	55.17137	214.6730	10566.36	90.44123	495.1894
#1	942.7925	5456.572	54.12748	214.7701	10568.09	93.10844	493.8048
#2	941.3634	5468.788	56.21526	214.5759	10564.62	87.77402	496.5740
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	5000.000	50.00000	200.0000	10000.00	100.0000	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	951.1665	1048.574	993.5359	1000.281	512.8230	992.0071	40.72069
#1	952.5942	1048.583	990.9434	1002.530	512.5756	990.0337	42.81734
#2	949.7387	1048.566	996.1285	998.0330	513.0705	993.9806	38.62404
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1000.000	1000.000	1000.000	1000.000	500.0000	1000.000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	60.27338	59.06257	53.22539	191.4087	Q202.2333	Q1380.867
#1	58.96415	55.40277	53.48944	191.9355	Q186.5825	Q1383.116
#2	61.58260	62.72237	52.96133	190.8820	Q217.8841	Q1378.617
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Fail
Value				200.0000	400.0000	1000.000
Range				20.00000	20.00000	20.00000

Method: TRACE1 Sample Name: LR Operator: LCM
Run Time: 10/22/07 14:11:53
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	166.1004	5088.118	2041.348	9848.236	491.5364	2005.199	72.00349
#1	185.6349	5090.959	2039.903	9874.735	492.8725	2007.656	88.70631
#2	146.5659	5085.277	2042.792	9821.736	490.2002	2002.742	55.30066
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value		5000.000	2000.000	10000.00	500.0000	2000.000	
Range		5.000000	5.000000	5.000000	5.000000	5.000000	

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	10129.09	10033.08	10352.77	510281.4	20271.83	107.5124	9812.581
#1	10148.02	10052.12	10363.32	511084.2	20386.28	132.2979	9823.506
#2	10110.15	10014.04	10342.21	509478.5	20157.38	82.72698	9801.656
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
Value	10000.00	10000.00	10000.00	500000.0	20000.00		10000.00
Range	5.000000	5.000000	5.000000	5.000000	5.000000		5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	7527.821	-1.61292	2037.432	1026.215	526.7926	2014.062	10201.27
#1	7541.436	-3.05312	2043.508	1029.107	471.4845	2023.851	10216.12
#2	7514.207	-.172710	2031.356	1023.323	582.1007	2004.274	10186.41
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	7500.000		2000.000	1000.000		2000.000	10000.00
Range	5.000000		5.000000	5.000000		5.000000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q20401.84	5107.056	9839.881	10092.35	2004.970	10146.97	19930.64
#1	Q20453.62	5104.816	9812.943	10113.49	2011.465	10162.39	20033.68
#2	Q20350.05	5109.296	9866.819	10071.22	1998.475	10131.56	19827.60
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	10000.00	5000.000	10000.00	10000.00	2000.000	10000.00	
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	20442.43	2023.293	2044.500	-50.5555	35.65240	11703.16
#1	20562.58	2029.952	2050.285	-50.2937	49.34049	11683.00
#2	20322.27	2016.635	2038.715	-50.8174	21.96431	11723.32
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value						
Range						

Method: TRACE1 Sample Name: CVCCV3 Operator: LCM
Run Time: 10/22/07 14:27:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	51157.73	505.7564	504.4139	498.4705	49.62722	493.7352	97472.56
#1	51177.00	505.9856	505.8957	499.3178	49.50006	493.1276	97236.51
#2	51138.46	505.5273	502.9320	497.6232	49.75438	494.3428	97708.62
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	498.3378	492.8858	512.4426	49206.40	502.1688	98897.69	498.1970
#1	497.4915	492.0553	509.9905	49191.94	498.3574	98780.18	497.9658
#2	499.1841	493.7163	514.8948	49220.86	505.9801	99015.20	498.4282
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	494.7874	24262.07	510.5647	518.7408	98789.03	498.2742	504.9389
#1	496.1261	24275.43	508.2695	516.7138	98735.08	498.1237	504.2326
#2	493.4487	24248.71	512.8599	520.7679	98842.98	498.4246	505.6453
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q566.1306	519.9138	503.7005	500.6673	503.6279	506.6859	492.9725
#1	Q564.4657	520.2660	502.1678	500.0537	503.8824	505.4242	491.3627
#2	Q567.7955	519.5615	505.2333	501.2809	503.3735	507.9477	494.5823
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	506.7665	509.3499	511.1718	506.1726	462.6841	529.7158
#1	501.8545	508.9055	507.9512	501.3905	Q434.2689	527.2429
#2	511.6785	509.7943	514.3923	510.9546	491.0992	532.1887
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB3 Operator: LCM
Run Time: 10/22/07 14:36:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	-.967567	-1.17803	-4.13311	.1274921	-.090578	.1115259	-32.5859
#1	.2006535	-1.55564	-1.34939	.1048111	-.011756	.0719089	-34.8093
#2	-2.13579	-.800426	-6.91682	.1501731	-.169400	.1511430	-30.3625
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.219982	-.286737	-.005742	8.504703	.7175189	16.56232	-.687723
#1	-.285408	-.506580	.0617007	9.334715	.6878404	14.30288	-.701078
#2	-.154556	-.066893	-.073184	7.674690	.7471975	18.82176	-.674367
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-.711417	-12.3526	1.886123	.1470402	-94.3028	-.565980	-.029056
#1	-.668331	-8.86909	2.316909	.2962475	17.55839	.7853696	.4961764
#2	-.754502	-15.8361	1.455337	-.002167	-206.164	-1.91733	-.554288
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.29163	1.866363	2.858225	-.888466	.0926409	.0717188	1.174674
#1	-1.34877	2.657757	3.234148	-.089475	.0838174	.1589385	2.862058
#2	-1.23448	1.074970	2.482301	-1.68746	.1014644	-.015501	-.512710
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.4885730	2.500492	1.578447	2.783944	29.29161	.8456739
#1	-.399638	5.049497	.9501213	2.352407	78.99548	1.632062
#2	1.376784	-.048513	2.206772	3.215480	-20.4123	.0592854
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: BLK 009 Operator: LCM
Run Time: 10/22/07 14:46:04
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	31.17884	1.459796	-2.16887	.1053471	.1013446	-.136253	-2.47692
#1	30.17803	1.883692	-2.24175	.0835855	.1170726	-.118775	-1.43772
#2	32.17965	1.035899	-2.09600	.1271087	.0856167	-.153732	-3.51612
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.0000	10.00000	10.00000	2.500000	1.000000	3.000000	500.0000
Low	-100.000	-10.0000	-10.0000	-2.50000	-1.00000	-3.00000	-500.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	1.918392	-.726964	-.355113	13.90557	1.015099	7.141440	-.549091
#1	2.259937	-.359519	-.663748	13.22917	1.137929	6.137407	-.542477
#2	1.576847	-1.09441	-.046478	14.58196	.8922694	8.145474	-.555705
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.500000	2.500000	5.000000	75.00000	5.000000	125.0000	2.500000
Low	-2.50000	-2.50000	-5.00000	-75.0000	-5.00000	-125.000	-2.50000

Elem	NI	K	SE	AG	NA	TL	V
Avge	L-5.32011	19.71972	-1.14958	.3002986	414.2310	-9.37703	.8525222
#1	L-5.15401	46.53575	-.145068	.6284582	712.8252	-7.49495	2.190493
#2	L-5.48621	-7.09632	-2.15409	-.027861	115.6367	-11.2591	-.485448
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000
Low	-5.00000	-125.000	-10.0000	-2.50000	-1250.00	-15.0000	-5.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	2.200266	2.823879	2.230023	H25.96812	.2442883	1.494503	2.374717
#1	2.005825	3.141053	H2.599335	H25.94207	.2365376	2.415364	4.377579
#2	2.394707	2.506704	1.860712	H25.99417	.2520390	.5736419	.3718551
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	NOCHECK
High	10.00000	7.500000	2.500000	12.50000	5.000000	12.50000	
Low	-10.0000	-7.50000	-2.50000	-12.5000	-5.00000	-12.5000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.3349245	-16.3849	6.467649	-23.3346	-12.8002	5.445785
#1	-.482261	-11.4491	5.506426	-19.3148	-27.8332	6.779498
#2	1.152110	-21.3208	7.428872	-27.3544	2.232850	4.112072
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						50.00000
Low						-50.0000

Method: TRACE1 Sample Name: BKS 009 Operator: LCM
Run Time: 10/22/07 14:55:20
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	10085.96	102.1826	95.50917	1029.896	52.02628	103.6453	9648.255
#1	10089.35	103.7512	96.04559	1031.070	51.57908	103.6056	9634.362
#2	10082.56	100.6140	94.97276	1028.722	52.47348	103.6851	9662.147
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	12000.00	120.0000	120.0000	1200.000	60.00000	120.0000	12000.00
Low	8000.000	80.00000	80.00000	800.0000	40.00000	80.00000	8000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	530.8505	507.0716	525.7181	10196.18	1018.261	9759.322	1036.185
#1	530.9326	507.5198	523.6408	10181.13	1013.274	9751.454	1035.837
#2	530.7684	506.6234	527.7955	10211.23	1023.248	9767.190	1036.533
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0000	600.0000	600.0000	12000.00	1200.000	12000.00	1200.000
Low	400.0000	400.0000	400.0000	8000.000	800.0000	8000.000	800.0000

Elem	NI	K	SE	AG	NA	TL	V
Avge	513.3986	9016.978	94.52601	105.0884	9788.647	95.19638	532.1128
#1	513.2828	9075.192	94.22291	105.9210	10169.17	94.44382	529.7942
#2	513.5143	8958.766	94.82911	104.2559	9408.127	95.94895	534.4313
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0000	12000.00	120.0000	120.0000	12000.00	120.0000	600.0000
Low	400.0000	8000.000	80.00000	80.00000	8000.000	80.00000	400.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	1031.648	977.2266	520.4691	541.5740	1039.336	2073.034	1007.534
#1	1030.159	977.5869	521.6711	538.1664	1039.252	2060.850	1008.926
#2	1033.137	976.8663	519.2670	544.9816	1039.420	2085.218	1006.143
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	1200.000	1200.000	600.0000	600.0000	1200.000	2400.000	
Low	800.0000	800.0000	400.0000	400.0000	800.0000	1600.000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	1023.623	81.81487	100.8812	350.1038	394.7608	8136.658
#1	1015.447	84.54584	99.06104	353.3716	375.2146	8131.206
#2	1031.800	79.08391	102.7013	346.8360	414.3070	8142.110
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						12000.00
Low						8000.000

Method: TRACE1 Sample Name: S 710114-040-040-1/1 Operator: LCM
Run Time: 10/22/07 15:04:35
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	45053.08	-.072051	10.11582	64.16981	.7932704	-.949679	2341.267
#1	45017.09	.8548860	8.398938	64.07848	.9070067	-1.31054	2333.659
#2	45089.06	-.998987	11.83270	64.26114	.6795341	-.588823	2348.876
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	373.5355	14.28354	97.45348	231725.2	38.61131	1743.792	609.9854
#1	373.0299	14.51937	98.16433	231457.2	38.79033	1742.060	609.0119
#2	374.0410	14.04771	96.74264	231993.3	38.43228	1745.523	610.9589
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	96.93771	768.3378	11.56218	.5424334	25.90416	-4.32817	499.9896
#1	97.15741	765.4929	9.962289	.5066926	-88.5763	-2.27821	501.3209
#2	96.71800	771.1827	13.16207	.5781743	140.3846	-6.37813	498.6582
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	147.1813	2.435426	4.003006	2.105174	76.84164	11821.30	36.32840
#1	146.8854	2.431160	4.126542	3.227306	76.88221	11850.80	38.60412
#2	147.4772	2.439693	3.879469	.9830418	76.80109	11791.80	34.05268
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	39.75231	7.496249	13.59465	-5.36483	92.67522	765.5157
#1	38.88303	7.786283	11.04980	-5.02812	105.0753	764.3822
#2	40.62158	7.206215	16.13950	-5.70154	80.27513	766.6492
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SP710114-040-040-1/1 Operator: LCM
Run Time: 10/22/07 15:13:51
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	56447.63	2.122387	15.37284	185.7479	5.913158	8.824283	3344.898
#1	56375.08	-.526456	15.61157	185.6588	5.750602	8.592693	3330.877
#2	56520.18	4.771231	15.13411	185.8371	6.075715	9.055872	3358.920
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	438.8743	64.96842	156.7664	236734.8	142.1531	2891.030	707.4675
#1	436.8632	64.32777	156.4611	236086.2	142.3764	2878.704	705.6174
#2	440.8854	65.60907	157.0716	237383.5	141.9297	2903.356	709.3178
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	173.2279	1868.814	20.08337	10.89287	1262.123	.8544044	569.7013
#1	172.8591	1865.711	18.95324	10.98223	1102.136	-2.60872	566.6303
#2	173.5967	1871.916	21.21350	10.80352	1422.110	4.317528	572.7722
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	275.8530	96.30505	48.60733	53.15273	211.9031	12378.43	137.6097
#1	275.6521	96.26508	48.47371	51.60615	211.4924	12344.86	135.5923
#2	276.0538	96.34502	48.74096	54.69931	212.3138	12412.01	139.6272
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	144.4242	10.68798	24.78056	26.80789	151.6466	908.5503
#1	145.7679	4.183992	26.33736	24.80188	151.4685	903.0299
#2	143.0805	17.19196	23.22377	28.81390	151.8246	914.0708
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SD710114-040-040-1/1 Operator: LCM
Run Time: 10/22/07 15:23:24
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	59086.64	5.173661	19.12001	191.6058	6.044079	9.341985	3506.478
#1	59235.79	4.325862	17.78513	192.0411	6.089372	9.467228	3510.964
#2	58937.49	6.021460	20.45490	191.1705	5.998787	9.216742	3501.992
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	455.7253	66.37950	162.6551	249189.4	145.8928	2967.805	740.9294
#1	456.8030	65.95805	162.8037	249254.1	147.6071	2974.574	741.7752
#2	454.6476	66.80095	162.5066	249124.7	144.1784	2961.036	740.0836
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	178.6171	1889.319	21.21452	11.84994	924.5643	5.404015	594.3843
#1	179.9352	1899.000	22.85521	12.03125	1017.003	.6805153	597.0458
#2	177.2990	1879.637	19.57383	11.66863	832.1257	10.12751	591.7227
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	268.5958	97.53365	48.62672	52.75726	219.2304	12854.38	141.4130
#1	269.5318	96.96494	48.18383	51.74876	219.6811	12898.53	142.4142
#2	267.6598	98.10236	49.06961	53.76576	218.7796	12810.23	140.4119
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	148.1323	10.19809	26.72242	25.12020	150.3864	848.6497
#1	150.2032	14.54234	27.01134	29.81369	161.2351	851.3021
#2	146.0614	5.853840	26.43350	20.42671	139.5378	845.9973
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: PS710114-040-040-1/1 Operator: LCM
Run Time: 10/22/07 15:32:39
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	45964.09	82.58778	89.77389	84.35510	10.91240	18.79458	7181.305
#1	45940.24	83.14628	89.79913	84.32169	10.82042	18.70723	7174.523
#2	45987.94	82.02927	89.74866	84.38852	11.00439	18.88193	7188.087
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	390.1174	44.30196	128.1337	231108.7	120.2575	6716.258	684.8362
#1	390.4529	44.71470	127.6493	231246.4	120.3290	6710.787	685.3485
#2	389.7819	43.88921	128.6181	230970.9	120.1860	6721.730	684.3238
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	137.0248	5637.263	83.77103	51.50915	4913.808	91.48272	516.8396
#1	137.4874	5634.367	83.58014	51.52398	5046.458	91.53787	515.9757
#2	136.5622	5640.159	83.96193	51.49431	4781.159	91.42757	517.7035
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	229.3206	72.96352	34.03648	105.4281	97.54768	11718.76	118.3454
#1	228.8440	73.63024	34.65745	103.8990	97.58787	11691.72	116.3988
#2	229.7973	72.29678	33.41550	106.9572	97.50748	11745.81	120.2921
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	121.2130	78.05477	86.62868	493.8222	594.2048	5884.716
#1	122.2937	77.55733	86.59106	493.2128	576.5697	5883.611
#2	120.1323	78.55222	86.66629	494.4316	611.8400	5885.821
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SE710114-040-040-1/1 Operator: LCM
Run Time: 10/22/07 15:41:54
Comment: UG/L 50
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	9165.783	-.666671	-1.46164	12.89842	.1694730	-.252922	426.4662
#1	9181.242	-.041029	-.253730	12.98702	.1436308	-.235363	428.8917
#2	9150.323	-1.29231	-2.66955	12.80982	.1953151	-.270481	424.0407
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	76.93676	2.778918	19.10841	47064.59	7.898866	367.6874	123.5424
#1	76.95414	2.724532	19.66912	47290.27	7.029256	371.0900	124.2618
#2	76.91938	2.833303	18.54770	46838.92	8.768475	364.2849	122.8231
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	19.70764	132.7040	1.085953	.1551302	-160.416	-1.78434	102.1538
#1	19.42549	132.2499	1.632486	-1.05081	-192.771	-.087764	103.1559
#2	19.98979	133.1580	.5394193	1.361067	-128.061	-3.48093	101.1518
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	29.03394	-.299722	.9367326	2.337004	15.67158	2400.967	8.182936
#1	29.13235	-1.32867	.9935621	2.315795	15.73830	2415.294	4.570133
#2	28.93554	.7292221	.8799031	2.358213	15.60485	2386.640	11.79574
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	7.756469	-1.04977	2.153452	.4266834	8.759790	154.5402
#1	8.258451	-1.51310	3.204910	-8.28783	15.68351	154.5591
#2	7.254486	-.586453	1.101994	9.141197	1.836068	154.5214
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-041-041-1/1 Operator: LCM
Run Time: 10/22/07 15:51:09
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	32784.87	-1.64711	9.618796	44.79265	.8454054	-2.15737	727.6392
#1	32800.40	-.266111	8.155092	44.91225	.8068144	-2.35846	723.8780
#2	32769.34	-3.02811	11.08250	44.67305	.8839964	-1.95629	731.4003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	448.9736	17.55845	114.6159	270428.1	38.28580	1535.105	631.7755
#1	448.6177	17.59731	113.6520	270275.5	37.91658	1533.725	631.0063
#2	449.3296	17.51959	115.5798	270580.8	38.65502	1536.485	632.5447
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	87.39877	556.8749	12.69415	.4053080	-12.2482	-7.72025	655.6303
#1	87.07780	561.3488	13.00286	.6286288	-51.0959	-3.19272	652.0407
#2	87.71975	552.4011	12.38544	.1819871	26.59953	-12.2478	659.2197
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	162.5083	-3.00991	4.326276	6.592580	45.40642	14885.89	35.56508
#1	162.5638	-3.09360	4.337641	8.124411	45.55632	14827.59	36.50778
#2	162.4528	-2.92623	4.314910	5.060749	45.25653	14944.19	34.62237
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	39.64563	5.767038	16.15729	-13.3048	119.9404	901.1572
#1	38.62058	6.263375	16.37219	-13.5352	100.7520	908.2054
#2	40.67068	5.270701	15.94240	-13.0745	139.1288	894.1089
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-042-042-1/1 Operator: LCM
Run Time: 10/22/07 16:00:44
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	18899.77	-.543147	4.774937	48.15894	.6462659	-1.80803	1331.066
#1	18921.84	.1704626	4.851665	48.26903	.6891793	-1.68402	1336.094
#2	18877.69	-1.25676	4.698208	48.04886	.6033525	-1.93204	1326.038
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	493.0765	24.31649	122.3081	244840.9	34.89794	2157.738	700.9869
#1	494.5715	24.46531	122.7567	245311.1	35.06354	2167.433	702.2028
#2	491.5814	24.16766	121.8594	244370.7	34.73234	2148.044	699.7709
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	92.17671	449.2646	8.097662	.0373863	40.50594	-7.56057	741.1928
#1	92.16560	453.3254	10.44435	.0296056	157.2709	-9.70691	744.1562
#2	92.18782	445.2038	5.750978	.0451671	-76.2590	-5.41423	738.2294
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	204.9173	-3.74680	2.923964	4.900542	50.98680	16271.24	32.35798
#1	205.6172	-3.31909	3.011869	5.657782	51.04372	16329.84	35.25610
#2	204.2174	-4.17451	2.836058	4.143303	50.92989	16212.64	29.45985
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	36.16743	.0238495	12.13415	-12.2741	113.6874	637.4412
#1	34.96661	7.432424	11.94990	-11.0050	130.6519	636.5073
#2	37.36826	-7.38472	12.31841	-13.5432	96.72290	638.3749
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-043-043-1/1 Operator: LCM
Run Time: 10/22/07 16:10:00
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50679.04	.3905635	3.611853	134.2578	.8541542	-.598185	1394.439
#1	50650.49	1.387342	5.502563	134.1596	.8743687	-.598619	1400.595
#2	50707.59	-.606215	1.721142	134.3561	.8339398	-.597750	1388.283
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	304.0158	23.38648	146.6361	192350.9	63.16069	3335.050	1080.128
#1	305.5167	23.90599	145.9910	192802.2	63.84233	3348.191	1082.244
#2	302.5148	22.86697	147.2812	191899.6	62.47905	3321.909	1078.011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	121.2687	625.4603	8.568174	.5248731	73.27544	-4.17100	434.6752
#1	121.0116	638.4708	8.949955	.7357451	216.7961	-3.32857	434.8123
#2	121.5259	612.4499	8.186395	.3140011	-70.2453	-5.01342	434.5381
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	171.4185	-1.85277	2.652742	5.650334	37.67519	11402.25	57.95497
#1	172.2971	-.894185	3.229138	4.526750	37.63452	11374.64	56.95134
#2	170.5399	-2.81136	2.076347	6.773918	37.71586	11429.87	58.95860
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	65.76317	2.844664	11.42954	-8.83787	117.9741	662.2063
#1	67.28742	1.682087	12.58348	-4.60282	106.0753	671.5179
#2	64.23891	4.007242	10.27560	-13.0729	129.8729	652.8947
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: CVCCV3 Operator: LCM
Run Time: 10/22/07 16:22:08
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50748.09	504.9118	507.6312	494.6380	49.37022	492.6758	98038.50
#1	50815.27	503.4024	506.3584	494.7937	49.37381	491.1811	97823.46
#2	50680.92	506.4212	508.9039	494.4823	49.36664	494.1706	98253.53
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	498.9374	492.4498	510.7819	48915.08	498.0175	99324.93	495.7404
#1	497.3756	490.7924	511.4216	48842.01	496.9530	99124.73	494.9980
#2	500.4991	494.1071	510.1421	48988.15	499.0821	99525.13	496.4827
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	492.6647	23885.18	507.3155	518.4819	97555.41	503.7989	501.9018
#1	492.1935	23924.34	505.5252	517.4945	97775.00	503.0254	501.2390
#2	493.1360	23846.01	509.1059	519.4694	97335.83	504.5725	502.5645
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q562.5029	518.1910	498.2473	499.7366	504.5629	504.6190	491.0998
#1	Q561.3397	518.5797	496.3005	497.5655	504.8806	504.5987	490.7590
#2	Q563.6662	517.8022	500.1940	501.9078	504.2451	504.6393	491.4406
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	501.4760	507.6851	507.1303	505.8518	475.9785	528.4664
#1	500.0496	508.1797	504.1975	502.3309	473.6277	525.8423
#2	502.9023	507.1905	510.0631	509.3727	478.3293	531.0906
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB3 Operator: LCM
Run Time: 10/22/07 16:31:23
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	9.192549	-2.40959	-3.30572	.0579917	-.044488	.0047101	-28.3771
#1	5.371452	-1.80865	-6.40246	.0511524	-.012806	.0418658	-33.3451
#2	13.01365	-3.01054	-.208975	.0648309	-.076169	-.032446	-23.4091
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.562842	-.208373	-.337711	13.68979	.1193577	33.94153	-.665329
#1	-.789494	-.400203	-.082096	17.14872	-.346664	28.14079	-.663222
#2	-.336191	-.016543	-.593325	10.23087	.5853798	39.74227	-.667436
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-.210510	-13.3392	.5387835	.0330202	-196.011	-4.27010	-.167073
#1	-.604188	-18.7382	-.323031	.1081262	-240.075	-4.11080	.0277740
#2	.1831684	-7.94014	1.400598	-.042086	-151.948	-4.42941	-.361921
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.18837	-.540997	.9359676	-.869101	.1453318	.2939557	-1.37549
#1	-1.06277	-.700740	1.575998	-1.56914	.1146256	.3966707	-1.68999
#2	-1.31398	-.381254	.2959372	-.169066	.1760379	.1912407	-1.06099
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.8663943	2.318866	-.351723	1.658844	-13.6151	-2.14495
#1	.3245906	1.004503	-.987245	.9760215	-6.88366	-1.04281
#2	1.408198	3.633228	.2837995	2.341666	-20.3465	-3.24709
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: S 710114-044-044-1/1 Operator: LCM
Run Time: 10/22/07 16:40:39
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	28446.25	-1.64359	1.943927	48.40337	.9064266	-1.76795	546.5118
#1	28387.22	-2.05157	3.202628	48.34190	.8749851	-1.59294	543.2974
#2	28505.28	-1.23561	.6852269	48.46484	.9378681	-1.94296	549.7264
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	366.3744	22.56948	86.43509	217986.2	20.32354	1689.254	845.0321
#1	365.1009	23.00157	85.65698	217649.6	19.91589	1682.623	843.3817
#2	367.6479	22.13740	87.21320	218322.9	20.73119	1695.886	846.6826
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	79.64687	371.7845	7.564567	.7689395	-25.5630	-5.48952	576.0305
#1	79.15911	377.0203	6.634745	1.172816	154.2328	-7.20950	572.5225
#2	80.13463	366.5487	8.494389	.3650625	-205.359	-3.76955	579.5385
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	150.1169	-3.53199	3.084042	3.610511	23.49013	14779.26	19.11692
#1	150.4247	-3.72043	2.976025	5.292608	23.44230	14706.79	21.25315
#2	149.8090	-3.34354	3.192059	1.928413	23.53796	14851.73	16.98069
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	20.92641	3.149219	9.771831	-14.8291	126.8766	558.1619
#1	19.24678	1.848336	9.027542	-12.1343	107.8990	554.3789
#2	22.60603	4.450102	10.51612	-17.5238	145.8543	561.9449
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-045-045-1/1 Operator: LCM
Run Time: 10/22/07 16:50:13
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	56838.51	-.730502	5.365138	40.08846	.6845859	.7721539	1027.180
#1	56948.41	-.131495	6.811564	40.12699	.6796430	.7815037	1029.771
#2	56728.60	-1.32951	3.918712	40.04994	.6895288	.7628040	1024.589
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	296.2128	11.79504	211.2166	187882.8	71.41679	1355.863	549.9156
#1	296.0649	11.60658	211.5459	188085.5	71.40762	1356.256	550.8975
#2	296.3606	11.98349	210.8872	187680.1	71.42597	1355.469	548.9336
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	135.3118	471.7327	10.94784	1.665736	-6.65795	-5.66655	393.4083
#1	136.1929	467.6323	9.061894	1.665256	52.84541	-4.98867	394.8788
#2	134.4307	475.8331	12.83378	1.666216	-66.1613	-6.34443	391.9377
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	250.0151	-.651426	3.435109	8.190281	29.28567	9683.607	69.17822
#1	251.0323	-.712948	3.359584	8.116256	29.38118	9716.012	69.13844
#2	248.9978	-.589905	3.510633	8.264305	29.19015	9651.202	69.21800
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	72.53561	8.583056	12.12974	-10.5788	118.9352	1123.029
#1	72.54173	6.441532	10.37159	-8.21143	130.6667	1123.080
#2	72.52948	10.72458	13.88790	-12.9461	107.2038	1122.978
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-046-046-1/1 Operator: LCM
Run Time: 10/22/07 16:59:29
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	34900.91	5.995596	11.47284	50.90796	.7393582	1.642510	1421.077
#1	34868.84	5.706950	10.40271	50.80952	.7925940	1.033047	1417.169
#2	34932.97	6.284241	12.54296	51.00641	.6861225	2.251974	1424.985
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	375.6182	15.58185	699.7971	262296.9	171.6718	1736.194	760.6326
#1	375.4578	15.39661	702.5189	262146.8	171.3322	1738.780	759.5897
#2	375.7786	15.76708	697.0752	262447.0	172.0115	1733.608	761.6754
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	91.87247	529.1481	14.81381	2.427227	-52.1488	-5.78922	573.9048
#1	91.86542	531.4200	12.78268	2.647299	-89.9901	-5.35156	574.9762
#2	91.87951	526.8760	16.84495	2.207155	-14.3075	-6.22689	572.8333
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	358.1800	-1.70316	4.856315	22.89077	37.69150	13011.64	167.3434
#1	358.9419	-1.40748	4.367433	22.74848	37.74063	13044.30	167.8003
#2	357.4182	-1.99884	5.345197	23.03306	37.64238	12978.97	166.8865
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	173.8356	10.18384	17.12839	-8.24178	117.7114	1100.508
#1	173.0978	5.819839	16.26369	-3.40268	126.2577	1097.237
#2	174.5735	14.54783	17.99310	-13.0809	109.1651	1103.778
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-047-047-1/1 Operator: LCM
Run Time: 10/22/07 17:08:45
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	19969.42	-.860076	6.366085	55.63072	.7652943	-1.28026	264.7492
#1	20020.03	-1.49305	7.760933	55.75758	.8429949	-1.21950	265.1759
#2	19918.81	-.227106	4.971236	55.50387	.6875937	-1.34101	264.3225
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	396.5279	16.77711	104.2722	223666.1	36.92750	1255.255	542.3210
#1	397.3305	16.15022	105.2883	223982.9	36.99713	1258.832	543.1581
#2	395.7254	17.40399	103.2561	223349.3	36.85787	1251.677	541.4840
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	70.69334	394.0877	11.92582	.6003639	-136.199	-1.97860	568.9784
#1	70.77959	395.9794	13.35863	.9614362	-166.995	-1.19492	572.8143
#2	70.60711	392.1960	10.49302	.2392917	-105.404	-2.76228	565.1426
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	201.3295	-3.24485	2.854169	5.658557	63.85079	12725.81	33.17071
#1	203.5245	-4.04946	2.859983	4.310453	63.99511	12802.95	36.32966
#2	199.1345	-2.44024	2.848355	7.006660	63.70647	12648.67	30.01175
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	38.80557	4.218324	15.77909	-15.8068	82.98476	697.7447
#1	37.33053	7.990776	16.04206	-16.6407	98.10553	694.1665
#2	40.28061	.4458718	15.51611	-14.9729	67.86400	701.3231
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-048-048-1/1 Operator: LCM
Run Time: 10/22/07 17:18:00
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	25166.33	1.992570	7.787345	89.74913	.7369039	-.540292	712.0323
#1	25204.96	.7892199	7.566152	90.00407	.6902378	-.642262	713.5784
#2	25127.70	3.195920	8.008539	89.49420	.7835701	-.438322	710.4863
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	436.0219	21.09791	190.7506	222538.7	109.4602	1632.657	725.5915
#1	436.2923	20.69440	191.9785	222981.4	110.0487	1639.525	726.8939
#2	435.7515	21.50143	189.5228	222096.1	108.8716	1625.789	724.2891
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	83.20875	575.7288	10.80889	.7581444	-94.6922	-4.24832	589.7907
#1	82.51345	578.4003	10.31405	.7397636	29.15919	-4.31346	591.5576
#2	83.90407	573.0572	11.30372	.7765251	-218.544	-4.18318	588.0237
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	248.7293	-2.69515	3.156036	9.181372	106.2405	13379.32	106.0736
#1	250.0209	-3.13114	2.728605	6.682346	106.4857	13452.65	107.9515
#2	247.4378	-2.25916	3.583467	11.68040	105.9954	13306.00	104.1958
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	111.1529	4.832754	13.79647	-13.7106	86.30293	626.8398
#1	111.0967	5.980906	12.48014	-15.5694	97.58117	631.6097
#2	111.2091	3.684602	15.11279	-11.8518	75.02469	622.0699
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-049-049-1/1 Operator: LCM
Run Time: 10/22/07 17:27:34
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	26418.92	-3.32780	6.206195	75.55970	.9149674	-1.59403	804.8735
#1	26367.17	-2.67644	5.271139	75.53770	.9018997	-1.36774	806.7572
#2	26470.68	-3.97916	7.141251	75.58170	.9280350	-1.82032	802.9898
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	498.3087	19.81831	131.1241	238038.7	34.44004	1589.753	603.8612
#1	497.7475	20.20491	129.5609	237903.5	33.32302	1587.944	603.8300
#2	498.8699	19.43172	132.6873	238173.9	35.55706	1591.561	603.8923
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	78.41567	507.3404	9.109792	.6718630	-83.1196	-6.60250	620.2719
#1	78.81745	511.0102	8.062160	.4562410	25.38759	-7.52142	617.9805
#2	78.01389	503.6705	10.15742	.8874849	-191.627	-5.68359	622.5633
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	201.5699	-3.67755	2.728695	5.238172	97.24259	13057.62	33.55933
#1	201.0489	-2.65345	2.521242	6.863951	96.99033	13005.37	31.46042
#2	202.0908	-4.70166	2.936149	3.612392	97.49485	13109.87	35.65823
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	34.88003	4.465032	11.43185	-12.3612	96.30891	565.6910
#1	34.25396	.4765673	11.85463	-10.4501	96.17907	562.7421
#2	35.50611	8.453496	11.00906	-14.2722	96.43877	568.6399
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-050-050-1/1 Operator: LCM
Run Time: 10/22/07 17:36:50
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	51514.88	-1.72151	9.413990	52.85061	.6512507	-1.08090	413.8398
#1	51497.85	-3.65065	10.73231	52.87834	.6740651	-1.05686	413.9611
#2	51531.91	.2076254	8.095664	52.82288	.6284363	-1.10494	413.7185
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	321.8589	10.68651	104.0226	188073.6	18.08672	825.2722	620.0285
#1	321.6750	10.71217	103.6689	187921.2	17.96813	823.4057	619.5440
#2	322.0427	10.66085	104.3764	188225.9	18.20530	827.1387	620.5130
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	76.88734	566.9567	11.86391	.5291378	24.48213	-7.15709	384.4112
#1	76.86385	569.2621	13.04247	.8978498	96.87829	-7.24686	384.9061
#2	76.91083	564.6513	10.68535	.1604258	-47.9140	-7.06732	383.9163
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	153.1621	-.960699	2.917056	4.907354	59.37127	8146.058	13.93701
#1	152.8796	-1.31364	3.166891	4.676892	59.46524	8133.948	11.62460
#2	153.4445	-.607762	2.667220	5.137816	59.27730	8158.167	16.24943
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	20.16120	7.316873	14.13697	-4.37676	106.5754	638.8924
#1	21.13958	5.478808	16.82381	-1.40067	124.1093	635.0496
#2	19.18282	9.154937	11.45012	-7.35285	89.04144	642.7352
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-051-051-1/1 Operator: LCM
Run Time: 10/22/07 17:46:05
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	44061.31	-.339658	5.951428	44.21872	.8768672	-1.42031	499.9252
#1	44057.41	-.888817	5.448854	44.30642	.9227022	-1.40333	495.9293
#2	44065.19	.2095013	6.454001	44.13101	.8310322	-1.43729	503.9212
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	407.4551	12.62124	117.3508	206875.9	39.37973	1109.002	573.6511
#1	405.9465	12.46823	116.9496	206286.0	39.03486	1106.261	571.9373
#2	408.9638	12.77424	117.7521	207465.9	39.72461	1111.742	575.3648
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	95.14615	477.0101	9.971310	.5934423	2.358683	-6.14630	457.5189
#1	94.64490	474.6981	7.612283	-.102218	-50.3961	-3.42458	456.7484
#2	95.64739	479.3221	12.33034	1.289103	55.11343	-8.86802	458.2893
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	149.6727	-1.95827	2.515366	3.634816	42.44628	10349.98	36.11513
#1	148.8644	-2.27913	3.378887	4.259465	42.37245	10338.84	37.73041
#2	150.4810	-1.63741	1.651846	3.010166	42.52011	10361.11	34.49984
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	41.01165	3.794954	13.05900	-9.80193	156.8531	661.0384
#1	39.68668	2.350377	10.24275	-12.3095	154.0235	657.6730
#2	42.33662	5.239532	15.87525	-7.29436	159.6828	664.4038
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-052-052-1/1 Operator: LCM
Run Time: 10/22/07 17:55:20
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	31879.66	-2.38438	6.268305	48.17005	.9158846	-1.28321	1626.626
#1	31910.72	-1.69553	6.886801	48.23724	1.005192	-1.32593	1626.110
#2	31848.59	-3.07322	5.649810	48.10286	.8265771	-1.24049	1627.143
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	459.2148	16.21363	107.0145	251862.0	32.94058	1585.551	596.3746
#1	458.7589	15.88101	107.2814	251656.1	33.37510	1581.226	596.3202
#2	459.6707	16.54625	106.7475	252068.0	32.50605	1589.877	596.4290
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	81.39650	599.9557	12.75525	-.234730	-99.2635	-5.44508	600.6498
#1	80.99864	600.2966	11.62125	-.178319	-53.7656	-5.17236	601.6664
#2	81.79436	599.6148	13.88925	-.291141	-144.761	-5.71779	599.6332
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	165.7165	-1.99950	3.566318	3.200178	62.28910	12863.84	31.95351
#1	165.9019	-2.61477	3.535553	1.692562	62.33536	12889.44	31.66302
#2	165.5311	-1.38423	3.597082	4.707794	62.24284	12838.24	32.24399
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	33.43367	5.347446	16.45882	-14.6563	113.6550	524.1482
#1	34.23065	4.882431	14.99033	-15.4261	123.0917	526.0538
#2	32.63668	5.812461	17.92732	-13.8866	104.2182	522.2427
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-053-053-1/1 Operator: LCM
Run Time: 10/22/07 18:04:54
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	34346.01	-3.30529	5.825370	69.52003	.8472876	-1.08268	1048.117
#1	34349.25	-3.84482	4.650385	69.57217	.8771704	-1.36477	1040.172
#2	34342.76	-2.76577	7.000354	69.46790	.8174049	-.800591	1056.062
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	384.7694	15.11494	103.9021	202884.6	37.78628	1256.160	692.9160
#1	384.0801	15.00424	103.9904	202359.5	38.09246	1250.337	691.1486
#2	385.4588	15.22564	103.8137	203409.7	37.48011	1261.983	694.6834
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	71.30490	654.7618	9.302203	.0388729	-77.0414	-5.58520	467.0932
#1	71.11453	660.5516	7.190964	.1914283	89.58101	-5.77706	467.2895
#2	71.49528	648.9720	11.41344	-.113682	-243.664	-5.39335	466.8968
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	171.0778	-1.76627	1.943078	3.971982	78.28839	9739.400	35.31864
#1	170.3128	-1.17302	2.227534	4.490405	78.52631	9747.401	38.76962
#2	171.8428	-2.35953	1.658623	3.453559	78.05048	9731.400	31.86766
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	39.01971	4.978465	11.46367	-11.1132	79.66168	437.5482
#1	37.75341	1.829989	9.871048	-9.37248	84.32072	435.8466
#2	40.28600	8.126940	13.05629	-12.8540	75.00264	439.2498
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: CVCCV3 Operator: LCM
Run Time: 10/22/07 18:17:23
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	51261.30	508.3106	506.0935	499.6824	49.38747	492.4189	98281.14
#1	51165.98	506.9167	508.5974	499.3984	49.37511	491.9070	98267.80
#2	51356.62	509.7045	503.5896	499.9665	49.39984	492.9309	98294.49
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	498.1889	491.8920	514.7897	48705.17	498.7890	99495.77	494.8463
#1	498.0428	491.6098	512.2099	48714.38	496.5084	99446.44	495.2228
#2	498.3350	492.1742	517.3694	48695.97	501.0696	99545.09	494.4698
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	491.5417	24443.83	513.0510	524.1089	99273.42	498.3571	502.8325
#1	491.9912	24374.41	509.2376	521.5067	98918.40	496.6576	501.1378
#2	491.0922	24513.25	516.8644	526.7112	99628.45	500.0566	504.5272
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q562.9081	517.5376	497.0748	500.0977	508.0418	505.2660	487.7726
#1	Q561.5677	516.8916	496.8538	499.3886	507.9765	504.1753	480.4886
#2	Q564.2486	518.1835	497.2958	500.8067	508.1071	506.3567	495.0565
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	504.2969	516.0823	511.5350	506.9873	479.9069	532.2895
#1	504.5180	510.7437	508.4842	505.3168	462.4358	530.8726
#2	504.0757	521.4209	514.5859	508.6578	497.3780	533.7065
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB3 Operator: LCM
Run Time: 10/22/07 18:26:39
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	13.15913	-.235391	-2.75036	.1487849	.0865979	.2361317	-18.3042
#1	12.72859	-.456730	-2.73527	.1110550	.0202854	.1300764	-24.9128
#2	13.58967	-.014052	-2.76545	.1865148	.1529104	.3421870	-11.6955
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	.1785591	.4274973	-.106391	21.12966	.2424333	43.30749	-.649125
#1	.0788322	.0160480	-.003256	20.14204	-.468429	38.26199	-.668584
#2	.2782859	.8389466	-.209526	22.11728	.9532959	48.35298	-.629667
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-.841354	-9.24112	.4463516	-.019484	-186.306	.9936407	.1840467
#1	-1.08822	-14.8442	-1.50836	-.662865	-210.075	1.928216	.0264029
#2	-.594491	-3.63804	2.401066	.6238976	-162.537	.0590656	.3416905
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.81135	.7895985	1.710064	.3073453	.2053839	.5372037	-.598754
#1	-1.95744	1.253789	2.216065	.0033087	.1785050	.6034507	-2.13615
#2	-1.66525	.3254081	1.204064	.6113819	.2322629	.4709568	.9386379
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.6626486	2.166398	-.414091	4.252642	-34.2476	-.016977
#1	.3650660	-2.51352	-1.00623	.9885173	-37.8218	-.268019
#2	.9602312	6.846311	.1780486	7.516767	-30.6733	.2340644
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: S 710114-054-054-1/1 Operator: LCM
Run Time: 10/22/07 18:35:54
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	62408.90	-1.19181	6.920571	32.27824	.7382017	-1.09771	644.5178
#1	62287.98	-1.65157	8.806370	32.34526	.7046068	-1.03320	648.3326
#2	62529.81	-.732037	5.034772	32.21122	.7717967	-1.16223	640.7030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	291.4853	7.077192	69.52991	174021.2	17.61945	724.7522	326.2018
#1	292.3964	7.475943	69.68063	174357.5	16.84321	728.0541	326.8527
#2	290.5743	6.678442	69.37918	173685.0	18.39568	721.4504	325.5509
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	120.9332	472.5520	9.557997	.6951133	3.607228	-3.20100	336.1346
#1	120.7033	474.1804	10.65349	.9233950	32.09716	-1.79579	336.4986
#2	121.1631	470.9235	8.462507	.4668315	-24.8827	-4.60621	335.7706
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	88.09351	.2611350	2.524941	2.584065	31.65455	7910.541	16.34213
#1	87.63633	.3557409	2.552611	1.934699	31.65576	7928.109	15.65540
#2	88.55067	.1665291	2.497272	3.233432	31.65334	7892.974	17.02887
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	18.25772	6.587623	11.04276	-5.33755	112.6712	799.0974
#1	17.43676	8.122580	11.91854	-6.89416	116.7183	796.3993
#2	19.07868	5.052664	10.16699	-3.78095	108.6240	801.7955
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-055-055-1/1 Operator: LCM
Run Time: 10/22/07 18:45:10
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	26888.76	-1.81840	4.603395	48.74557	.8006218	-.952913	1147.939
#1	27042.17	-.878472	3.820053	48.98054	.8451693	-1.13037	1147.973
#2	26735.36	-2.75832	5.386737	48.51060	.7560742	-.775454	1147.906
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	382.6636	15.04876	110.3866	226753.8	44.61350	1466.970	575.4825
#1	383.1717	14.85612	111.2350	226985.1	44.29816	1468.961	576.4902
#2	382.1555	15.24141	109.5381	226522.5	44.92883	1464.979	574.4748
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	75.00263	569.9336	8.507208	.4502129	13.77464	-8.39286	555.5602
#1	75.45832	574.1987	8.592794	.5887768	-1.24652	-8.52969	558.1849
#2	74.54694	565.6685	8.421622	.3116489	28.79579	-8.25603	552.9356
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	159.2577	-2.00905	3.466613	6.582730	52.34565	12222.72	43.17580
#1	159.2064	-2.42988	3.197594	6.610523	52.62022	12283.62	42.80346
#2	159.3090	-1.58821	3.735631	6.554937	52.07108	12161.82	43.54815
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	45.33197	3.363276	11.07876	-13.8514	76.52899	579.4924
#1	45.04519	1.935710	11.92092	-16.2904	84.31559	584.6778
#2	45.61876	4.790842	10.23660	-11.4123	68.74240	574.3071
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-056-056-1/1 Operator: LCM
Run Time: 10/22/07 18:54:45
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	20751.98	-2.21642	1.384615	27.91704	.7253362	-1.65536	440.0609
#1	20829.35	-3.17779	1.173773	28.04046	.6983724	-1.66755	444.1424
#2	20674.60	-1.25504	1.595457	27.79362	.7523000	-1.64318	435.9793
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	417.7675	12.99077	82.72789	222679.2	18.48933	1095.894	429.2307
#1	417.1060	12.91494	82.56074	222916.2	18.08448	1090.618	429.7335
#2	418.4289	13.06659	82.89504	222442.1	18.89418	1101.171	428.7278
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	67.25908	341.3634	8.654116	.0499604	-169.271	-4.63524	564.6591
#1	67.66087	339.6974	8.593122	-.231186	-245.786	-3.42390	564.0326
#2	66.85728	343.0295	8.715110	.3311071	-92.7564	-5.84657	565.2855
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	140.1165	-3.12896	2.591892	1.333048	27.98331	11525.23	15.06595
#1	140.0682	-3.24222	2.788330	-.137082	28.05745	11529.03	13.19543
#2	140.1647	-3.01570	2.395454	2.803179	27.90916	11521.42	16.93648
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	20.20057	.4808304	12.74039	-13.1460	85.12230	455.7178
#1	20.52860	-2.92591	14.35226	-13.5998	78.53027	462.9649
#2	19.87255	3.887575	11.12851	-12.6922	91.71434	448.4707
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-057-057-1/1 Operator: LCM
Run Time: 10/22/07 19:04:01
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	33399.14	-1.83198	6.650251	42.05283	.6897129	-1.87808	1610.122
#1	33363.00	-2.30363	7.780442	42.02307	.7298049	-1.96603	1609.406
#2	33435.27	-1.36034	5.520061	42.08260	.6496210	-1.79013	1610.838
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	415.4129	10.62894	111.0726	258193.1	41.92138	1323.511	451.2959
#1	415.7710	10.50562	111.0733	258186.5	42.23301	1320.209	451.3071
#2	415.0549	10.75226	111.0718	258199.7	41.60975	1326.813	451.2848
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	64.70536	761.6040	10.77103	-.243953	2.219940	-6.01032	609.7306
#1	63.66653	762.6589	9.914644	-.891010	86.87051	-4.49961	611.0417
#2	65.74419	760.5491	11.62741	.4031036	-82.4306	-7.52102	608.4196
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	131.9506	-.753960	2.879466	4.370222	45.78983	12591.05	36.94730
#1	131.9441	-.557976	2.863243	5.612900	45.78279	12631.47	36.53896
#2	131.9571	-.949945	2.895688	3.127544	45.79686	12550.62	37.35564
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	44.40793	3.112156	14.60006	-14.5113	100.5295	558.1471
#1	45.07955	-.849278	15.29620	-12.3652	111.0545	559.4961
#2	43.73632	7.073590	13.90392	-16.6574	90.00446	556.7981
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-058-058-1/1 Operator: LCM
Run Time: 10/22/07 19:13:17
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	30673.32	-3.60505	7.580048	28.38951	.7508758	-1.71505	625.6946
#1	30549.66	-3.50725	7.271089	28.31274	.8315895	-1.78446	623.8244
#2	30796.99	-3.70286	7.889007	28.46629	.6701621	-1.64564	627.5648
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	379.8764	5.043297	68.95583	298785.5	132.9299	665.3973	284.8637
#1	380.5331	5.069023	68.73949	298854.9	133.4910	665.0093	284.9201
#2	379.2197	5.017570	69.17216	298716.1	132.3688	665.7853	284.8072
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	36.95900	240.6357	17.78011	.2895677	-139.960	-6.73651	734.2028
#1	36.81826	242.3043	17.28744	.7177043	-34.3970	-9.04285	732.9928
#2	37.09974	238.9670	18.27279	-.138569	-245.524	-4.43018	735.4128
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	78.35834	-2.53707	4.789087	5.960204	20.01289	14743.67	130.2741
#1	78.84199	-2.76854	5.087119	7.853972	19.97366	14730.36	132.3745
#2	77.87470	-2.30561	4.491055	4.066437	20.05211	14756.99	128.1738
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	134.2574	11.22632	21.05664	-11.4173	115.9904	813.3331
#1	134.0489	12.43677	19.71240	-9.60576	126.7513	803.8634
#2	134.4660	10.01588	22.40089	-13.2288	105.2294	822.8029
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-059-059-1/1 Operator: LCM
Run Time: 10/22/07 19:22:47
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	42269.37	1.885890	2.612668	120.2614	.6871849	.4327035	3799.830
#1	42290.95	1.697071	1.094022	120.4990	.6300276	.5195541	3807.034
#2	42247.79	2.074709	4.131316	120.0239	.7443423	.3458528	3792.626
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	270.3561	38.27248	238.0417	135317.8	90.63516	8225.223	1607.803
#1	270.4770	38.29353	237.1999	135456.9	91.07137	8231.838	1610.303
#2	270.2353	38.25142	238.8834	135178.8	90.19896	8218.606	1605.303
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	183.9937	1051.683	6.839953	.5759143	227.0980	-3.93212	347.5200
#1	184.5743	1059.996	4.581563	.9128034	228.8144	-4.14370	348.7625
#2	183.4132	1043.371	9.098344	.2390251	225.3816	-3.72055	346.2775
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	221.6688	.2047182	1.534777	23.09444	41.31858	9093.320	88.89972
#1	222.3672	.7481580	1.820407	23.11625	41.35572	9092.566	88.69428
#2	220.9704	-.338722	1.249147	23.07263	41.28144	9094.075	89.10517
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	91.50253	3.672999	8.422951	-2.38048	91.94408	622.8175
#1	92.25960	.8378940	6.452915	-.521652	87.12918	622.7126
#2	90.74546	6.508104	10.39299	-4.23930	96.75898	622.9225
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: BLK 010 Operator: LCM
Run Time: 10/22/07 19:35:09
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	19.26916	1.446247	-3.05925	.0581851	.2477840	-.200743	-47.4746
#1	20.65029	1.995200	-3.76161	-.009293	.2967469	-.219930	-48.4338
#2	17.88803	.8972943	-2.35689	.1256629	.1988211	-.181556	-46.5155
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.0000	10.00000	10.00000	2.500000	1.000000	3.000000	500.0000
Low	-100.000	-10.0000	-10.0000	-2.50000	-1.00000	-3.00000	-500.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	1.462250	-1.06934	-1.12354	26.70311	.9366203	2.072949	-.542103
#1	1.537505	-.718072	-1.39257	20.88421	-.017859	-1.28932	-.563996
#2	1.386994	-1.42061	-.854517	32.52202	1.891100	5.435214	-.520209
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.500000	2.500000	5.000000	75.00000	5.000000	125.0000	2.500000
Low	-2.50000	-2.50000	-5.00000	-75.0000	-5.00000	-125.000	-2.50000

Elem	NI	K	SE	AG	NA	TL	V
Avge	L-5.05073	21.06833	.8280443	-.012766	472.6123	-7.13952	1.082998
#1	L-5.20920	40.44353	-.014556	.6368786	743.4604	-8.12219	2.138715
#2	-4.89225	1.693120	1.670645	-.662411	201.7643	-6.15684	.0272818
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000
Low	-5.00000	-125.000	-10.0000	-2.50000	-1250.00	-15.0000	-5.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-.520569	.8503758	-.361323	H27.63398	.1135011	2.329245	1.806245
#1	-.489945	1.133182	-.374151	H30.12184	.0869888	2.676332	3.878311
#2	-.551192	.5675695	-.348495	H25.14611	.1400133	1.982158	-.265821
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	NOCHECK
High	10.00000	7.500000	2.500000	12.50000	5.000000	12.50000	
Low	-10.0000	-7.50000	-2.50000	-12.5000	-5.00000	-12.5000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.5014474	-10.4032	6.443257	-22.1936	-10.8728	5.046214
#1	-1.96630	-9.61112	4.783315	-15.7208	-28.7188	4.451984
#2	2.969197	-11.1953	8.103200	-28.6663	6.973150	5.640443
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						50.00000
Low						-50.0000

Method: TRACE1 Sample Name: BKS 010 Operator: LCM
Run Time: 10/22/07 19:44:44
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	9986.148	99.20875	90.59352	1012.885	50.80080	100.8918	9577.518
#1	9975.293	100.5727	93.15189	1011.602	50.83676	100.7802	9581.854
#2	9997.003	97.84483	88.03515	1014.169	50.76483	101.0034	9573.181
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	12000.00	120.0000	120.0000	1200.000	60.00000	120.0000	12000.00
Low	8000.000	80.00000	80.00000	800.0000	40.00000	80.00000	8000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	520.1312	496.0012	518.3148	9954.772	989.2366	9672.845	1012.225
#1	520.7295	496.7058	516.2836	9937.256	986.9641	9672.723	1011.915
#2	519.5330	495.2966	520.3459	9972.287	991.5090	9672.967	1012.534
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0000	600.0000	600.0000	12000.00	1200.000	12000.00	1200.000
Low	400.0000	400.0000	400.0000	8000.000	800.0000	8000.000	800.0000

Elem	NI	K	SE	AG	NA	TL	V
Avge	501.4736	8896.991	92.16688	103.5866	9584.288	92.38402	521.9888
#1	500.9060	8923.560	90.12560	103.8356	9744.988	91.62877	522.5795
#2	502.0412	8870.423	94.20818	103.3376	9423.588	93.13927	521.3981
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0000	12000.00	120.0000	120.0000	12000.00	120.0000	600.0000
Low	400.0000	8000.000	80.00000	80.00000	8000.000	80.00000	400.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	1005.915	967.9136	508.2875	529.5525	1036.744	2031.922	985.0007
#1	1004.299	965.8274	507.1004	529.6390	1036.902	2028.716	989.3227
#2	1007.532	969.9997	509.4745	529.4659	1036.585	2035.127	980.6788
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	1200.000	1200.000	600.0000	600.0000	1200.000	2400.000	
Low	800.0000	800.0000	400.0000	400.0000	800.0000	1600.000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	991.3541	77.02915	99.73535	342.7912	390.5811	8019.939
#1	985.7845	74.40419	97.98589	342.3956	393.6477	8016.735
#2	996.9237	79.65411	101.4848	343.1868	387.5144	8023.143
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						12000.00
Low						8000.000

Method: TRACE1 Sample Name: S 710114-060-060-1/1 Operator: LCM
Run Time: 10/22/07 19:54:20
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	42652.56	-.330193	5.082705	117.2301	.9165490	1.318616	3720.268
#1	42607.49	.6982088	4.986304	117.1902	1.006116	1.262531	3718.990
#2	42697.62	-1.35859	5.179106	117.2700	.8269824	1.374701	3721.546
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	315.8599	23.93140	618.1892	196379.7	106.9562	2970.382	1778.411
#1	315.8544	23.70623	619.0641	196199.2	107.5866	2968.713	1777.567
#2	315.8654	24.15657	617.3143	196560.2	106.3259	2972.052	1779.254
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	125.0732	976.9456	11.08370	2.954453	31.33493	-3.27171	403.8216
#1	124.4739	978.0589	11.10052	3.608107	147.0881	-3.11894	404.1517
#2	125.6724	975.8323	11.06688	2.300799	-84.4182	-3.42448	403.4915
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	414.0017	1.225766	4.605989	6.109201	63.50859	10375.63	101.6778
#1	414.3503	.5569218	4.436336	7.068542	63.51416	10399.05	103.5850
#2	413.6532	1.894610	4.775642	5.149859	63.50302	10352.22	99.77051
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	109.5950	5.713375	13.76855	-15.1207	68.64868	620.9460
#1	109.5869	5.198829	14.05105	-13.6302	74.74382	624.2081
#2	109.6031	6.227922	13.48605	-16.6112	62.55355	617.6840
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SP710114-060-060-1/1 Operator: LCM
Run Time: 10/22/07 20:03:36
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	57244.41	1.747666	15.79661	221.1848	5.701036	12.03834	4420.821
#1	61523.63	2.755553	17.31033	237.7350	6.013262	12.68494	4756.659
#2	52965.19	.7397795	14.28288	204.6345	5.388811	11.39174	4084.984
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	432.0305	73.99387	371.5083	224351.2	197.0398	4083.054	2303.660
#1	463.6020	79.87743	399.6537	240879.2	211.3318	4385.106	2471.485
#2	400.4590	68.11031	343.3630	207823.3	182.7478	3781.002	2135.834
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	217.4590	1898.755	19.62775	11.08885	768.7770	12.66613	437.6408
#1	233.0322	2055.919	21.12000	12.19097	836.8448	18.59860	469.2552
#2	201.8860	1741.591	18.13550	9.986724	700.7091	6.733658	406.0263
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	378.1939	94.47979	50.24996	46.46471	169.6445	10453.62	175.5133
#1	405.1573	101.7316	54.01082	49.93622	182.5108	11243.13	188.8889
#2	351.2306	87.22797	46.48911	42.99320	156.7782	9664.105	162.1376
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	207.8027	-2.13721	30.50973	6.442188	117.3778	847.2739
#1	222.5528	-.472744	31.91587	4.980598	117.3366	915.2457
#2	193.0525	-3.80168	29.10358	7.903778	117.4191	779.3022
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: CVCCV4 Operator: LCM
Run Time: 10/22/07 20:15:54
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	52119.22	516.5841	517.1815	509.1248	50.40203	500.7819	100014.6
#1	52103.66	517.4341	517.3060	508.7048	50.51279	499.8204	100110.4
#2	52134.78	515.7341	517.0571	509.5448	50.29127	501.7434	99918.86
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	506.9335	501.4674	525.1318	49527.74	508.1194	101221.8	504.0354
#1	506.5639	500.9604	526.0682	49495.85	507.8894	101266.5	503.6784
#2	507.3031	501.9744	524.1954	49559.63	508.3496	101177.0	504.3924
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	501.6106	24747.44	521.3801	531.6130	100962.6	510.1515	512.3767
#1	501.0557	24715.53	520.6342	530.6617	100851.5	510.8326	513.2095
#2	502.1655	24779.35	522.1261	532.5644	101073.7	509.4705	511.5439
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q570.1522	529.8961	507.5514	513.2759	516.6679	514.5264	500.8757
#1	Q567.9686	528.8931	504.7939	515.6912	516.3582	515.1641	501.3080
#2	Q572.3359	530.8991	510.3090	510.8606	516.9776	513.8887	500.4433
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	511.7409	519.0571	522.5413	516.1622	485.0619	542.4708
#1	511.1796	523.0532	519.4242	513.9661	480.9003	542.7658
#2	512.3022	515.0610	525.6583	518.3583	489.2235	542.1759
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB4 Operator: LCM
Run Time: 10/22/07 20:25:10
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	2.754794	-2.27881	-2.41459	.0302241	.0659679	-.032239	-46.6304
#1	2.616121	-3.28807	-4.55109	.0722197	.0597545	-.052561	-42.4295
#2	2.893466	-1.26954	-.278092	-.011772	.0721815	-.011918	-50.8314
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.581599	-.091587	-.532284	6.183956	-.980124	17.12131	-.607224
#1	-.556634	-.236617	-.387382	13.24130	-1.68084	20.33246	-.571216
#2	-.606563	.0534439	-.677185	-.873392	-.279408	13.91015	-.643231
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-.478969	-12.8605	1.566098	-.416938	-322.505	-1.69221	.1439995
#1	-.442609	-10.8528	1.206774	-.393319	-244.711	-2.86625	.4594230
#2	-.515330	-14.8682	1.925422	-.440557	-400.300	-.518160	-.171424
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.50940	.8852852	.8251864	-2.00005	.0779925	.3048322	-1.21390
#1	-1.47912	.7775225	1.163900	-4.31139	.0990794	.4568455	-2.27804
#2	-1.53968	.9930479	.4864724	.3112870	.0569057	.1528188	-.149764
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-.863591	2.799211	.9491472	-.530324	-3.11200	-3.13744
#1	-1.38260	2.985517	.3170087	.6163213	-14.4510	-2.51539
#2	-.344587	2.612903	1.581286	-1.67697	8.227022	-3.75949
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: SD710114-060-060-1/1 Operator: LCM
Run Time: 10/22/07 20:34:27
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	65551.86	5.617888	16.00990	239.0588	6.028197	11.49534	4976.877
#1	65551.89	4.243794	13.22992	239.2728	5.995972	11.42576	4957.566
#2	65551.84	6.991981	18.78989	238.8448	6.060422	11.56492	4996.188
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	403.0507	77.91653	392.9747	213626.7	209.5162	4280.466	2022.976
#1	401.8320	78.01698	392.0834	213071.8	208.2407	4262.673	2018.006
#2	404.2693	77.81609	393.8659	214181.7	210.7917	4298.258	2027.946
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	232.7394	2113.038	16.69849	11.84791	1269.936	5.980080	492.4523
#1	232.1721	2125.020	15.47995	11.63148	1291.323	4.681538	489.2478
#2	233.3066	2101.055	17.91703	12.06434	1248.549	7.278622	495.6569
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	424.8696	100.6008	49.76409	52.05434	185.6612	11773.40	206.3544
#1	423.4661	101.0087	49.21650	51.29117	185.5106	11719.92	205.8267
#2	426.2731	100.1929	50.31168	52.81752	185.8117	11826.88	206.8821
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	211.0967	12.77674	18.65897	27.28051	135.2080	794.6739
#1	209.4473	11.81409	17.31248	29.51344	129.1006	788.8136
#2	212.7461	13.73938	20.00546	25.04757	141.3155	800.5342
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: PS710114-060-060-1/1 Operator: LCM
Run Time: 10/22/07 20:44:02
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	43035.31	84.00757	87.17929	136.4115	10.86031	22.05707	8519.397
#1	43041.98	83.38371	83.70795	136.5786	10.83145	21.98537	8520.999
#2	43028.63	84.63143	90.65063	136.2445	10.88917	22.12876	8517.794
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	332.3954	54.33500	642.2895	195877.8	187.6159	7906.797	1837.906
#1	332.2223	53.99490	643.1064	195927.7	188.6156	7897.703	1838.669
#2	332.5684	54.67511	641.4727	195827.9	186.6162	7915.891	1837.144
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	163.7869	5775.352	80.34963	53.76260	4919.863	94.16301	419.8095
#1	164.5054	5775.600	79.28585	54.46810	4905.581	93.44920	420.2667
#2	163.0684	5775.106	81.41340	53.05711	4934.145	94.87683	419.3522
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	486.8736	74.53912	35.36509	109.5215	83.60501	10288.14	182.8588
#1	487.6082	74.58600	35.00425	109.3777	83.57940	10298.57	183.7846
#2	486.1390	74.49224	35.72593	109.6652	83.63062	10277.70	181.9330
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	189.9941	75.14783	82.95015	495.7457	584.5853	5733.681
#1	191.0307	74.99285	81.43200	497.8236	586.8860	5733.365
#2	188.9574	75.30280	84.46830	493.6678	582.2845	5733.997
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SE710114-060-060-1/1 Operator: LCM
Run Time: 10/22/07 20:53:18
Comment: UG/L 50
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	8749.598	-.233169	-.375319	23.88334	.2009441	.4264336	703.8569
#1	8750.184	2.016279	-1.26746	23.91831	.2300661	.3786569	705.3529
#2	8749.011	-2.48262	.5168230	23.84837	.1718222	.4742103	702.3610
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	65.92314	5.292304	126.0318	40533.59	23.29983	633.4516	368.9867
#1	66.41586	5.412316	126.5580	40631.13	22.90706	638.8630	369.7497
#2	65.43043	5.172292	125.5055	40436.04	23.69260	628.0402	368.2237
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	26.95724	179.6441	1.581818	.0912328	-79.7522	-3.93644	83.55170
#1	27.19445	181.2553	4.088231	-.486044	-117.964	-4.55525	84.18023
#2	26.72003	178.0328	-.924595	.6685098	-41.5406	-3.31763	82.92316
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	84.68479	.2625770	2.172318	2.766395	13.01563	2149.951	20.62090
#1	84.62699	.9323055	3.427835	1.204209	13.04989	2154.201	21.08803
#2	84.74259	-.407151	.9168014	4.328581	12.98137	2145.701	20.15377
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	24.63890	4.394225	.1752200	-1.60125	-2.19656	129.5564
#1	23.81626	7.011377	2.626264	-5.80216	1.978450	132.4412
#2	25.46154	1.777072	-2.27582	2.599667	-6.37156	126.6716
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-061-061-1/1 Operator: LCM
Run Time: 10/22/07 21:02:33
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	49760.48	-1.14433	9.387672	34.06035	.8922728	-1.40462	352.7792
#1	49906.99	-1.92801	9.683349	34.11393	.8779607	-1.41639	353.1746
#2	49613.96	-.360650	9.091997	34.00677	.9065849	-1.39284	352.3838
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	347.8339	11.06369	102.0693	246746.2	46.39436	905.4258	499.2381
#1	347.2074	10.77015	102.3418	246827.0	46.64397	903.6416	499.6670
#2	348.4605	11.35722	101.7968	246665.4	46.14475	907.2100	498.8092
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	84.85699	368.9907	16.82094	1.282099	-39.7083	-6.29755	520.5236
#1	84.79529	372.3321	18.09632	.9022385	17.12588	-6.94582	518.9268
#2	84.91871	365.6494	15.54556	1.661959	-96.5426	-5.64928	522.1204
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	119.7849	-1.96270	3.407211	7.376660	20.71693	11908.51	46.67281
#1	120.4770	-2.42263	3.410148	6.958019	20.74720	11907.66	45.03083
#2	119.0929	-1.50278	3.404274	7.795301	20.68666	11909.36	48.31478
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	46.25476	14.29189	18.08507	-12.5475	112.8861	788.3343
#1	47.45014	15.71955	19.28431	-10.4061	106.7173	790.6177
#2	45.05939	12.86423	16.88583	-14.6889	119.0548	786.0508
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-062-062-1/1 Operator: LCM
Run Time: 10/22/07 21:11:49
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	52642.47	-1.47260	4.116108	21.06991	.6806126	-1.17144	318.6936
#1	52565.72	-.129339	4.245465	21.04419	.6540409	-1.17024	318.1000
#2	52719.21	-2.81586	3.986751	21.09563	.7071843	-1.17265	319.2872
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	330.5561	4.724724	60.44001	196403.0	15.78190	563.7824	289.1535
#1	329.5244	4.953951	60.10753	196016.9	16.70390	564.0143	288.4844
#2	331.5878	4.495497	60.77248	196789.1	14.85990	563.5505	289.8227
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	78.57433	449.1708	10.40362	.5749519	-16.1087	-4.62781	401.5488
#1	78.10032	451.1462	9.697945	1.002817	27.37856	-5.31161	400.0297
#2	79.04833	447.1954	11.10929	.1470867	-59.5961	-3.94400	403.0679
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	85.45662	-1.00076	1.820314	1.274916	16.25761	8294.384	14.11262
#1	85.67843	-.671542	2.410573	2.465712	16.23267	8257.584	16.57504
#2	85.23480	-1.32998	1.230054	.0841198	16.28256	8331.184	11.65020
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	16.61610	6.739239	12.23542	-11.6905	133.3355	540.3180
#1	16.76794	9.321374	9.885834	-9.53115	138.8552	540.8243
#2	16.46427	4.157103	14.58501	-13.8498	127.8159	539.8116
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-063-063-1/1 Operator: LCM
Run Time: 10/22/07 21:21:25
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	88104.62	-1.49740	7.549995	9.085766	.4365191	-.948393	116.2331
#1	88374.88	-.594819	9.096462	9.102222	.5189119	-1.10807	115.0272
#2	87834.36	-2.39997	6.003528	9.069309	.3541262	-.788720	117.4391
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	247.9370	1.009359	48.17840	130489.1	93.43208	180.7169	103.0158
#1	249.9936	1.095526	48.31830	131198.5	93.29533	178.5963	103.5816
#2	245.8803	.9231930	48.03850	129779.8	93.56883	182.8374	102.4500
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	47.13479	113.1912	14.18648	.8829558	-20.4612	-4.05439	284.1634
#1	47.29827	118.7480	13.72684	.7670618	145.2052	-5.57760	286.0461
#2	46.97130	107.6344	14.64613	.9988497	-186.128	-2.53118	282.2807
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	42.72685	.8445017	2.121713	3.131594	6.300016	6316.642	89.54071
#1	42.63430	1.061987	1.667279	3.487329	6.302432	6358.879	90.70236
#2	42.81940	.6270160	2.576147	2.775858	6.297601	6274.403	88.37906
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	95.37741	13.44438	14.55706	-7.89633	179.3851	574.9379
#1	94.59141	12.59080	14.29438	-10.6953	191.8727	578.4922
#2	96.16340	14.29796	14.81974	-5.09741	166.8976	571.3836
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-064-064-1/1 Operator: LCM
Run Time: 10/22/07 21:30:41
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	56822.57	1.678604	.2045981	114.6642	.6981345	-.787421	1554.760
#1	56851.66	.2353277	.0804875	114.6505	.7278398	-.899728	1556.196
#2	56793.48	3.121881	.3287086	114.6778	.6684293	-.675114	1553.324
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	286.9452	33.64485	100.9614	137676.7	19.63098	2873.687	1337.607
#1	287.4896	33.80323	100.6790	137783.9	19.10202	2871.490	1339.013
#2	286.4008	33.48647	101.2438	137569.4	20.15995	2875.884	1336.202
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	194.3131	927.1180	4.620703	.3576671	49.39961	-1.81142	379.5668
#1	194.4438	925.9796	4.253688	.3607390	14.00091	-2.83735	379.6200
#2	194.1825	928.2565	4.987719	.3545951	84.79829	-.785496	379.5135
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	136.9997	-1.49392	2.179112	6.170852	28.67000	10176.70	15.80395
#1	136.8645	-1.50741	2.005680	6.350221	28.65349	10195.95	18.13930
#2	137.1349	-1.48042	2.352544	5.991483	28.68650	10157.44	13.46861
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	21.54410	-1.69238	7.776842	-5.66730	123.3902	602.5450
#1	19.58299	-.071798	6.416031	-4.45549	125.4763	602.9995
#2	23.50521	-3.31295	9.137653	-6.87912	121.3040	602.0905
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: IAICSAI Operator: LCM
Run Time: 10/22/07 21:42:50
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	495860.1	-.311763	-5.75690	.6843634	.4919569	.4615030	495613.4
#1	495753.2	1.524445	-4.02232	.6789665	.5198119	.5751400	496469.6
#2	495966.9	-2.14797	-7.49147	.6897602	.4641018	.3478661	494757.2
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	.0000000	.0000000	.0000000	.0000000	.0000000	500000.0
Range	100000.0	10.00000	10.00000	2.500000	1.000000	5.000000	100000.0

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	1.885887	Q2.993067	1.835520	187570.9	3.758933	493735.3	Q11.57903
#1	1.723294	Q2.778869	1.425409	187511.9	4.551821	493704.7	Q11.65442
#2	2.048480	Q3.207266	2.245631	187629.8	2.966044	493766.0	Q11.50364
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.0000000	.0000000	.0000000	200000.0	.0000000	500000.0	.0000000
Range	2.500000	2.500000	5.000000	40000.00	5.000000	100000.0	2.500000

Elem	NI	K	SE	AG	NA	TL	V
Avge	3.171324	-17.5284	3.144289	-.204262	-79.3649	-9.95211	.9516507
#1	3.610743	-15.7434	4.610995	-.183623	-44.9635	-10.9367	.7878953
#2	2.731905	-19.3134	1.677583	-.224901	-113.766	-8.96756	1.115406
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q21.92882	1.705357	-1.21018	-2.76542	Q4.323697	2.287746	-7.68251
#1	Q22.35757	.9522727	-1.53685	-5.67908	Q4.315519	2.536770	-4.64626
#2	Q21.50008	2.458442	-.883504	.1482295	Q4.331875	2.038722	-10.7188
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	7.500000	2.500000	12.50000	2.500000	12.50000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	9.479160	4.226800	2.602528	-2.01124	-1.79986	Q33.00697
#1	9.150345	9.211354	2.310310	-3.74251	4.767231	Q31.44038
#2	9.807976	-.757753	2.894745	-.279979	-8.36695	Q34.57355
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value						.0000000
Range						25.00000

Method: TRACE1 Sample Name: IBICSABI Operator: LCM
Run Time: 10/22/07 21:52:07
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	496921.4	623.0801	100.0038	512.2306	478.3664	932.1487	493599.2
#1	497142.3	620.6981	100.3327	512.4935	479.0084	931.6442	494444.9
#2	496700.5	625.4620	99.67498	511.9677	477.7244	932.6533	492753.5
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	600.0000	100.0000	500.0000	500.0000	1000.000	500000.0
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	482.5639	467.8121	540.6921	188079.7	52.18536	493801.6	493.6870
#1	482.7662	467.3536	541.0913	188272.4	51.38417	494012.8	493.9740
#2	482.3617	468.2705	540.2929	187886.9	52.98656	493590.4	493.4000
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	200000.0	50.00000	500000.0	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	933.4847	5422.487	56.97353	216.4624	10569.93	87.36472	493.1727
#1	933.7643	5429.711	59.85060	216.1823	10577.05	84.81277	493.9960
#2	933.2052	5415.263	54.09647	216.7424	10562.82	89.91668	492.3494
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	5000.000	50.00000	200.0000	10000.00	100.0000	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	927.6796	1053.138	982.2395	998.7596	518.4068	983.7933	42.61260
#1	925.7470	1052.442	981.6931	998.2380	518.4664	984.5659	35.67804
#2	929.6121	1053.834	982.7859	999.2813	518.3472	983.0208	49.54716
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1000.000	1000.000	1000.000	1000.000	500.0000	1000.000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	56.97132	67.47281	51.72349	200.5447	Q198.1165	Q1379.147
#1	59.23680	65.56504	56.99305	196.7985	Q187.5109	Q1380.683
#2	54.70584	69.38058	46.45392	204.2910	Q208.7222	Q1377.611
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Fail
Value				200.0000	400.0000	1000.000
Range				20.00000	20.00000	20.00000

Method: TRACE1 Sample Name: CVCCV4 Operator: LCM
Run Time: 10/22/07 22:01:23
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	52181.71	512.5114	512.8942	507.9671	50.09339	495.5552	97621.00
#1	52260.58	513.0721	513.3231	507.2269	50.34099	495.9889	97725.85
#2	52102.84	511.9507	512.4653	508.7073	49.84580	495.1214	97516.16
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	501.6117	495.6972	524.8295	49096.67	504.0820	99993.00	499.1933
#1	501.7314	495.0438	525.0503	49093.56	504.7349	100056.1	498.5811
#2	501.4920	496.3507	524.6087	49099.78	503.4291	99929.88	499.8055
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	496.4380	24789.22	522.7371	531.4004	100699.1	506.2456	509.7264
#1	495.2526	24829.81	524.2372	531.4565	100765.6	506.0396	510.3953
#2	497.6235	24748.62	521.2369	531.3442	100632.5	506.4516	509.0576
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q563.4030	530.1373	504.1648	505.7975	517.8153	512.1267	498.3260
#1	Q565.3671	529.3038	501.8912	505.8624	518.0933	512.9126	501.9003
#2	Q561.4389	530.9709	506.4384	505.7326	517.5373	511.3408	494.7516
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	506.9596	528.7421	519.7342	513.0514	502.4592	540.3022
#1	506.1518	531.2073	520.7518	517.9747	511.7306	540.3121
#2	507.7674	526.2769	518.7165	508.1280	493.1877	540.2923
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB4 Operator: LCM
Run Time: 10/22/07 22:10:59
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	47.71214	-2.05859	-5.03935	.0368026	.0395586	.1531966	-9.05006
#1	71.27529	-1.86586	-5.00633	.1235951	.0879732	.3188920	19.79689
#2	24.14900	-2.25132	-5.07237	-.049990	-.008856	-.012499	-37.8970
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.087217	-.169442	-.478133	20.75777	.0253365	69.73878	-.582172
#1	.4323798	.4368547	-.441328	35.71155	-.066954	104.8982	-.468313
#2	-.606813	-.775739	-.514939	5.803980	.1176266	34.57934	-.696031
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-.011271	-8.50864	.2431256	-.120835	-241.335	1.238309	.2373351
#1	-.002312	6.931485	.0891691	.4887977	8.791578	2.067468	1.025635
#2	-.020230	-23.9488	.3970821	-.730467	-491.462	.4091494	-.550965
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.39740	.2412077	1.148782	.8203535	.1731370	.3698176	.1507655
#1	-1.35297	.7702095	1.811809	3.107325	.2671443	.5871116	-.279185
#2	-1.44183	-.287794	.4857540	-1.46662	.0791297	.1525236	.5807156
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-.037753	-.317372	.5229987	2.711139	-7.00929	-3.16947
#1	.0387682	-1.64610	.9564080	7.222020	-10.6133	-2.36439
#2	-.114274	1.011355	.0895894	-1.79974	-3.40523	-3.97456
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: S 710114-065-065-1/1 Operator: LCM
Run Time: 10/22/07 22:20:16
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	41225.75	-.917184	-.064029	84.88528	.9572520	-1.12495	1481.021
#1	41267.50	.0680122	-.754372	85.10621	.9799640	-1.03401	1486.214
#2	41184.00	-1.90238	.6263150	84.66435	.9345401	-1.21589	1475.829
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	302.6272	18.88134	99.16910	165854.5	34.46957	1650.564	1190.582
#1	303.6310	19.33399	99.01608	166291.1	34.19112	1653.830	1193.992
#2	301.6234	18.42869	99.32211	165417.9	34.74802	1647.298	1187.173
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	107.9222	431.6793	8.013409	.6097345	21.69157	-6.23063	390.8613
#1	107.9754	432.1116	7.610895	.7221515	-15.6266	-6.31958	391.2640
#2	107.8690	431.2470	8.415922	.4973174	59.00974	-6.14168	390.4586
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	139.3953	-1.48036	1.616429	2.640510	34.44761	9927.956	32.83264
#1	139.3127	-.843058	1.812793	3.591028	34.41804	9943.607	34.03975
#2	139.4779	-2.11766	1.420064	1.689991	34.47717	9912.305	31.62553
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	35.28767	2.642094	10.69872	-11.9307	76.10716	618.5679
#1	34.26641	3.230761	9.800640	-13.4592	73.23929	619.7119
#2	36.30895	2.053428	11.59681	-10.4022	78.97502	617.4240
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710114-066-066-1/1 Operator: LCM
Run Time: 10/22/07 22:29:32
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	54799.50	-1.68026	8.886816	35.31303	.9593794	-1.65855	297.4065
#1	54844.65	-2.74432	7.426891	35.36933	.9519769	-1.81435	296.1319
#2	54754.36	-.616201	10.34674	35.25672	.9667820	-1.50274	298.6811
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	333.9480	9.397826	107.4701	238220.6	53.92298	835.5974	471.0520
#1	333.8315	9.511194	107.4325	238063.5	53.69574	836.5482	470.5934
#2	334.0645	9.284458	107.5078	238377.7	54.15022	834.6467	471.5105
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	97.46973	334.1920	14.86258	1.148108	-29.8019	-7.53930	495.9810
#1	97.03759	333.9369	13.52184	1.099249	73.32240	-8.37831	494.2434
#2	97.90185	334.4471	16.20332	1.196967	-132.926	-6.70029	497.7186
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	124.2719	-2.21250	3.979194	6.697544	22.49972	11564.21	53.43431
#1	123.0923	-2.51586	4.231621	7.982874	22.53534	11538.06	52.91452
#2	125.4515	-1.90915	3.726766	5.412214	22.46409	11590.37	53.95410
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	54.16700	12.91721	15.83495	-10.3301	122.9895	1077.207
#1	54.08604	14.68877	12.93806	-11.9726	117.0125	1075.947
#2	54.24797	11.14564	18.73184	-8.68764	128.9665	1078.467
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710115-001-001-1/1 Operator: LCM
Run Time: 10/22/07 22:38:48
Comment: UG/L 2
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	32837.69	1.982749	4.144940	208.8093	1.540865	-.062448	2640.453
#1	32833.78	3.968246	4.913376	208.9204	1.522675	-.063724	2643.314
#2	32841.59	-.002749	3.376504	208.6982	1.559056	-.061172	2637.592
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	43.86356	19.32262	29.99189	43210.21	23.95617	5537.650	1663.805
#1	44.22657	19.95906	29.62545	43259.58	23.02871	5542.936	1666.312
#2	43.50055	18.68619	30.35834	43160.84	24.88362	5532.365	1661.298
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	45.05107	1086.586	1.739794	-.232218	311.3004	-4.55851	101.5919
#1	44.43924	1099.417	1.353291	.0344430	495.1003	-4.43567	102.3571
#2	45.66291	1073.755	2.126297	-.498879	127.5005	-4.68136	100.8267
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	102.2511	6.081016	1.500434	10.53879	21.93613	1366.848	23.80329
#1	102.2861	6.628711	2.137933	10.16750	21.94393	1364.509	23.01092
#2	102.2162	5.533320	.8629343	10.91008	21.92833	1369.186	24.59565
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	24.03227	-6.04782	5.633121	-7.54219	-1.31857	2324.521
#1	23.03721	-4.09816	4.078535	-5.59724	-9.20638	2335.060
#2	25.02733	-7.99749	7.187706	-9.48713	6.569242	2313.982
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SP710115-001-001-1/1 Operator: LCM
Run Time: 10/22/07 22:48:24
Comment: UG/L 2
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	44388.61	39.39323	55.53371	724.5107	26.82048	50.72683	7688.296
#1	44434.08	40.16557	58.37270	724.6716	26.91434	50.57361	7688.183
#2	44343.13	38.62089	52.69473	724.3498	26.72662	50.88005	7688.410
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	304.6635	268.0196	292.5784	47396.02	525.1111	10816.94	2081.847
#1	304.4491	267.9832	292.6045	47381.62	524.4283	10812.85	2081.825
#2	304.8780	268.0559	292.5524	47410.41	525.7938	10821.04	2081.870
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	301.9120	6519.557	51.52676	51.62080	5144.722	46.43768	363.6603
#1	301.8533	6544.864	50.69019	51.67344	5305.082	44.57994	364.6941
#2	301.9706	6494.251	52.36334	51.56816	4984.361	48.29542	362.6266
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	608.1348	508.4452	252.8846	259.4141	554.9760	2479.354	517.8052
#1	607.8809	507.3438	252.0794	259.7920	555.3630	2481.903	518.8463
#2	608.3887	509.5466	253.6899	259.0363	554.5890	2476.806	516.7640
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	528.7636	43.38554	55.59690	174.5001	156.4094	4964.140
#1	527.2189	44.31081	53.87940	172.8804	163.8650	4957.973
#2	530.3082	42.46027	57.31440	176.1198	148.9537	4970.306
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SD710115-001-001-1/1 Operator: LCM
Run Time: 10/22/07 22:57:40
Comment: UG/L 2
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	48487.27	39.08590	55.61735	753.8729	27.02366	51.36910	8325.130
#1	48387.25	37.94002	53.78559	751.6297	26.98670	51.29827	8298.396
#2	48587.29	40.23177	57.44911	756.1160	27.06062	51.43992	8351.864
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	314.1909	271.2945	295.2635	49937.66	533.4379	11438.17	2224.635
#1	313.1074	270.5249	295.2478	49772.02	534.5917	11399.34	2217.878
#2	315.2744	272.0641	295.2792	50103.31	532.2842	11477.00	2231.392
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	308.9082	6667.712	50.19522	52.56504	5180.803	46.84836	373.6164
#1	307.1366	6670.536	50.18981	52.46722	5273.401	47.51699	373.3408
#2	310.6798	6664.887	50.20063	52.66286	5088.204	46.17973	373.8920
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	631.3986	513.5715	255.2667	259.1134	564.0181	2579.966	530.0549
#1	631.1429	511.9201	254.8543	257.6538	562.7945	2572.439	531.6291
#2	631.6544	515.2228	255.6791	260.5729	565.2417	2587.494	528.4806
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	535.1291	44.99847	52.79305	174.5919	156.5208	5423.512
#1	536.0726	44.65421	52.95716	173.6829	155.3208	5401.083
#2	534.1857	45.34272	52.62894	175.5008	157.7208	5445.940
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: PS710115-001-001-1/1 Operator: LCM
Run Time: 10/22/07 23:06:56
Comment: UG/L 2
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	33817.81	82.10641	83.21185	229.3554	11.47735	20.20916	7461.898
#1	33865.18	82.16801	84.58491	229.7744	11.36555	20.23232	7454.930
#2	33770.44	82.04483	81.83878	228.9364	11.58914	20.18600	7468.865
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	63.13583	49.01383	59.97514	44865.52	104.9005	10409.04	1730.659
#1	62.90819	48.92543	59.49332	44847.79	104.7959	10402.63	1730.127
#2	63.36346	49.10223	60.45696	44883.24	105.0052	10415.45	1731.191
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	85.18252	5849.851	70.53922	49.93137	4991.986	94.20622	120.7103
#1	85.38387	5865.594	71.63361	50.49252	5067.025	93.13753	120.3122
#2	84.98116	5834.106	69.44484	49.37022	4916.947	95.27491	121.1084
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	182.2313	76.46948	32.25708	111.6167	42.94382	1375.726	100.8292
#1	182.3612	76.74552	32.87797	110.7670	42.96195	1370.581	101.5149
#2	182.1015	76.19344	31.63618	112.4663	42.92569	1380.871	100.1435
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	106.9357	64.37046	73.62326	470.7504	484.2201	7418.504
#1	106.4359	67.24232	73.82893	472.1526	475.1414	7417.416
#2	107.4356	61.49861	73.41760	469.3483	493.2988	7419.592
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SE710115-001-001-1/1 Operator: LCM
Run Time: 10/22/07 23:16:12
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	6671.671	-.181152	-2.79395	41.70894	.2447212	-.063830	469.3568
#1	6666.752	1.576294	-1.18759	41.79704	.2174917	-.006529	472.6678
#2	6676.590	-1.93860	-4.40031	41.62083	.2719507	-.121131	466.0458
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	9.081867	3.678434	5.290741	8651.418	5.453155	1145.113	332.9984
#1	9.597707	3.833580	5.402756	8667.556	5.618792	1152.236	333.0942
#2	8.566029	3.523288	5.178727	8635.280	5.287517	1137.991	332.9027
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	8.782208	196.3895	-.586766	-.370334	-281.586	-1.52983	20.01188
#1	9.113580	197.7778	-.726692	.3528469	-289.538	-2.96545	19.97334
#2	8.450834	195.0012	-.446840	-1.09351	-273.634	-.094202	20.05042
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	20.47046	1.063897	.0701910	.9714604	4.357890	273.5686	4.740414
#1	20.65610	1.986086	.4126111	1.157196	4.376370	273.2849	5.607474
#2	20.28482	.1417075	-.272229	.7857245	4.339411	273.8524	3.873353
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	5.809185	-4.26452	1.251672	-4.87778	-3.38725	477.6802
#1	5.624093	-5.25941	1.539187	-2.79061	-9.65556	480.5613
#2	5.994278	-3.26964	.9641566	-6.96495	2.881067	474.7990
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710119-001-001-1/1 Operator: LCM
Run Time: 10/22/07 23:25:48
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	32146.63	2.027126	6.170880	114.2017	.7964182	-.709985	2793.921
#1	31976.69	2.392762	5.109968	113.6811	.7661740	-.622782	2781.075
#2	32316.57	1.661490	7.231791	114.7224	.8266625	-.797188	2806.767
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	347.2800	25.12194	144.9056	223191.6	100.3147	2888.206	1629.513
#1	345.1695	24.97542	143.9646	222154.6	100.1803	2877.295	1622.360
#2	349.3906	25.26846	145.8465	224228.6	100.4492	2899.117	1636.666
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	98.10306	828.2069	10.02117	1.243536	12.00427	-5.21445	542.9092
#1	97.40609	831.1025	9.988223	1.164740	175.1267	-3.55910	540.7397
#2	98.80003	825.3112	10.05412	1.322332	-151.118	-6.86980	545.0787
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	238.9749	-1.47199	3.353976	9.560184	52.79210	13620.08	99.52339
#1	238.3655	-1.76100	3.133240	7.979038	52.54933	13565.14	100.3961
#2	239.5842	-1.18298	3.574712	11.14133	53.03486	13675.03	98.65073
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	100.7100	5.161825	12.45050	-9.08887	69.75540	569.1677
#1	100.0721	2.885096	13.53942	-6.97614	67.24397	566.7317
#2	101.3480	7.438555	11.36158	-11.2016	72.26683	571.6036
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710119-002-002-1/1 Operator: LCM
Run Time: 10/22/07 23:35:03
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	32408.48	-2.63601	2.173281	99.83418	.8386675	-1.35661	1287.866
#1	31989.97	-2.13043	2.698259	98.63090	.8159709	-1.23543	1270.624
#2	32826.99	-3.14159	1.648302	101.0375	.8613641	-1.47779	1305.108
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	345.0805	22.90847	104.9058	216012.8	31.82006	2173.767	1472.718
#1	340.0779	22.72016	103.3530	213110.1	31.10364	2143.835	1452.518
#2	350.0831	23.09678	106.4587	218915.5	32.53649	2203.698	1492.918
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	90.69949	640.0419	8.938078	.4794459	-59.6755	-2.55741	534.4448
#1	88.98341	638.5189	7.135443	1.380650	52.43193	-.398006	527.5962
#2	92.41556	641.5650	10.74071	-.421758	-171.783	-4.71682	541.2934
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	185.8398	-2.41392	2.538793	5.520476	31.74431	13189.83	32.76395
#1	185.1634	-2.69771	2.311357	4.111391	31.35412	13036.48	35.52522
#2	186.5162	-2.13014	2.766230	6.929562	32.13451	13343.19	30.00268
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	31.34774	8.505087	9.154209	-15.7307	135.7628	536.8439
#1	28.89245	10.85068	5.277466	-13.6538	116.9238	528.7705
#2	33.80303	6.159491	13.03095	-17.8077	154.6018	544.9173
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710119-003-003-1/1 Operator: LCM
Run Time: 10/22/07 23:44:19
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	39860.38	.1773155	6.177414	160.0711	.6450850	-.960943	2911.084
#1	39880.52	2.736629	6.747818	159.9453	.6198124	-.744686	2909.471
#2	39840.24	-2.38200	5.607009	160.1969	.6703576	-1.17720	2912.697
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	355.8492	34.32429	501.4948	180094.8	111.6508	2610.961	3786.478
#1	355.5741	34.44239	500.0131	179817.0	110.9043	2606.276	3780.471
#2	356.1243	34.20619	502.9764	180372.5	112.3973	2615.646	3792.484
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	119.8785	1294.019	4.769984	.9022687	121.5583	-4.65047	436.0148
#1	119.6063	1296.568	5.225722	.9948567	165.6742	-3.53645	435.9779
#2	120.1507	1291.470	4.314245	.8096806	77.44235	-5.76450	436.0516
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	222.3612	1.703753	2.137660	2.504447	56.92785	9821.144	108.5939
#1	222.3280	1.898366	1.957303	.8804016	56.84578	9818.608	108.2157
#2	222.3944	1.509139	2.318017	4.128492	57.00993	9823.679	108.9720
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	113.1789	2.816273	5.746517	-12.2294	90.82149	632.4434
#1	112.2482	3.698801	5.988861	-9.51749	89.93543	635.0245
#2	114.1095	1.933744	5.504173	-14.9414	91.70755	629.8623
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: CVCCV4 Operator: LCM
Run Time: 10/22/07 23:56:29
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	52587.75	515.4303	515.6307	513.3361	49.94482	499.4342	99500.22
#1	52659.75	514.8457	512.0754	514.1671	50.03920	499.4432	99597.56
#2	52515.76	516.0149	519.1859	512.5051	49.85045	499.4252	99402.88
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	505.5191	499.0016	525.3081	49400.09	505.6248	101117.6	501.5422
#1	505.8289	499.4697	525.8934	49395.50	505.0019	101169.6	501.5903
#2	505.2093	498.5337	524.7228	49404.69	506.2478	101065.4	501.4942
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	498.9581	25341.99	523.0058	533.3670	102789.3	510.6728	511.4594
#1	497.1387	25392.57	523.7417	533.9905	102799.5	507.3116	512.1733
#2	500.7775	25291.40	522.2699	532.7435	102779.2	514.0339	510.7454
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q569.9019	529.6141	505.0971	511.8968	522.3308	513.5547	499.4396
#1	Q570.2417	529.5104	502.2142	512.4986	523.1497	514.8432	498.4526
#2	Q569.5620	529.7177	507.9798	511.2951	521.5120	512.2662	500.4267
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	508.7170	519.0500	524.9833	520.0812	488.2036	Q552.1304
#1	508.2760	514.6035	528.3105	525.3727	490.0573	Q557.2071
#2	509.1579	523.4965	521.6562	514.7897	486.3499	547.0536
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Fail
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB4 Operator: LCM
Run Time: 10/23/07 00:05:45
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	26.22442	-.002791	-3.09423	.1089225	-.000898	.3183511	-28.7078
#1	33.34140	.5620869	-3.36874	.1929236	.0173461	.3891339	-28.5671
#2	19.10744	-.567670	-2.81972	.0249214	-.019143	.2475683	-28.8485
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.065587	.1548041	-.172231	19.51158	.2488074	44.59743	-.427152
#1	.0451924	.3275902	.0306643	21.94831	-.326177	51.99076	-.359569
#2	-.176367	-.017982	-.375125	17.07485	.8237913	37.20409	-.494734
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-.204914	-8.80822	-.774713	.2125749	-115.374	-.833853	.0582860
#1	-.001186	-12.5681	-1.78062	-.315056	-189.660	-1.66143	.0257641
#2	-.408643	-5.04832	.2311902	.7402056	-41.0878	-.006280	.0908080
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.13004	-.478528	.9251904	-.230076	.1674584	.3985779	.8565176
#1	-1.15232	-.175024	1.371852	.0341973	.2070770	.5246742	-1.10466
#2	-1.10777	-.782033	.4785287	-.494350	.1278398	.2724817	2.817692
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-.055430	-.468903	-.928042	3.704604	-11.5135	2.021562
#1	.0626626	-3.21250	-1.06508	1.811793	-4.89323	1.795919
#2	-.173522	2.274696	-.791006	5.597415	-18.1337	2.247205
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000