TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. SOIL PROJECT

Brown and Caldwell

Lot #: F7H290155

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September 24, 2007

Case Narrative
LOT NUMBER: **F7H290155**

This report contains the analytical results for the 19 samples received under chain of custody by STL St. Louis on August 28, 2007. These samples are associated with your Brown and Caldwell project.

The analytical results included in this report meet all applicable quality control procedure requirements.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by STL St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances
Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

There were no nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F7H290155

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
ICP-MS (6020)	SW846 6020	
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F7H290155

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
J5TJ7	001	BGS-A1-09S	07/27/07	14:30
J5TKW	002	BGS-A1-09D	07/27/07	14:30
J5TK0	003	BGS-A1-10S	07/27/07	15:15
J5TK2	004	BGS-A1-10D	07/27/07	15:15
J5TK3	005	BGS-A1-27S	07/27/07	16:15
J5TK5	006	BGS-A1-27D	07/27/07	16:15
J5TK8	007	BGS-A1-32S	07/28/07	08:00
J5TLC	008	BGS-A1-32D	07/28/07	08:00
J5TLD	009	BGS-A1-30S	07/28/07	10:00
J5TLF	010	BGS-A1-30D	07/28/07	10:00
J5TLH	011	BGS-A1-07S	07/27/07	09:00
J5TLN	012	BGS-A1-07D	07/27/07	09:00
J5TLP	013	BGS-A1-08S	07/27/07	10:30
J5TLR	014	BGS-A1-08D	07/27/07	10:30
J5TLW	015	BGS-A1-11S	07/27/07	11:30
J5TL0	016	BGS-A1-11D-1	07/27/07	11:30
J5TL1	017	BGS-A1-11D-2	07/27/07	11:30
J5TL5	018	BGS-A1-12S	07/27/07	12:15
J5TL8	019	BGS-A1-12D	07/27/07	12:15

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-09S

TOTAL Metals

Lot-Sample #...: F7H290155-001 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 14:30 **Date Received..:** 08/28/07
% Moisture.....: 0.90

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**5.2**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/19/07**	**J5TJ71AC**
		Dilution Factor: 1		Analysis Time..: 23:47		
Uranium	**0.78**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/19/07**	**J5TJ71AD**
		Dilution Factor: 1		Analysis Time..: 23:47		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-09S

General Chemistry

Lot-Sample #...: F7H290155-001 **Work Order #...:** J5TJ7 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 14:30 **Date Received..:** 08/28/07
% Moisture.....: 0.90

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**0.90**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-09D

TOTAL Metals

Lot-Sample #...: F7H290155-002 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 14:30 **Date Received..:** 08/28/07
% Moisture.....: 2.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**5.3**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TKW1AC**
		Dilution Factor: 1		Analysis Time..: 00:01		
Uranium	**0.88**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TKW1AD**
		Dilution Factor: 1		Analysis Time..: 00:01		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-09D

General Chemistry

Lot-Sample #...: F7H290155-002 **Work Order #...:** J5TKW **Matrix.....:** SOLID
Date Sampled...: 07/27/07 14:30 **Date Received..:** 08/28/07
% Moisture.....: 2.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-10S

TOTAL Metals

Lot-Sample #...: F7H290155-003 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 15:15 **Date Received..:** 08/28/07
% Moisture.....: 0.82

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**8.5**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TK01AC**
		Dilution Factor: 1		Analysis Time..: 00:05		
Uranium	**0.93**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TK01AD**
		Dilution Factor: 1		Analysis Time..: 00:05		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-10S

General Chemistry

Lot-Sample #...: F7H290155-003 **Work Order #...:** J5TK0 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 15:15 **Date Received..:** 08/28/07
% Moisture.....: 0.82

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**0.82**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-10D

TOTAL Metals

Lot-Sample #...: F7H290155-004 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 15:15 **Date Received..:** 08/28/07
% Moisture.....: 1.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**6.8**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TK21AC**
		Dilution Factor: 1		Analysis Time..: 00:17		
Uranium	**0.88**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TK21AD**
		Dilution Factor: 1		Analysis Time..: 00:17		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-10D

General Chemistry

Lot-Sample #...: F7H290155-004 **Work Order #...:** J5TK2 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 15:15 **Date Received..:** 08/28/07
% Moisture.....: 1.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-27S

TOTAL Metals

Lot-Sample #...: F7H290155-005 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 16:15 **Date Received..:** 08/28/07
% Moisture.....: 3.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**18.2**	**0.21**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TK31AC**
		Dilution Factor: 1		Analysis Time..: 00:21		
Uranium	**2.7**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TK31AD**
		Dilution Factor: 1		Analysis Time..: 00:21		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-27S

General Chemistry

Lot-Sample #...: F7H290155-005 **Work Order #...:** J5TK3 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 16:15 **Date Received..:** 08/28/07
% Moisture.....: 3.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**3.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-27D

TOTAL Metals

Lot-Sample #...: F7H290155-006 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 16:15 **Date Received..:** 08/28/07
% Moisture.....: 2.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**6.8**	**0.21**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TK51AC**
		Dilution Factor: 1		Analysis Time..: 00:24		
Uranium	**1.2**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TK51AD**
		Dilution Factor: 1		Analysis Time..: 00:24		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-27D

General Chemistry

Lot-Sample #...: F7H290155-006 **Work Order #...:** J5TK5 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 16:15 **Date Received..:** 08/28/07
% Moisture.....: 2.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-32S

TOTAL Metals

Lot-Sample #...: F7H290155-007 **Matrix.....:** SOLID
Date Sampled...: 07/28/07 08:00 **Date Received..:** 08/28/07
% Moisture.....: 2.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**5.3**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TK81AC**
		Dilution Factor: 1		Analysis Time..: 00:28		
Uranium	**0.94**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TK81AD**
		Dilution Factor: 1		Analysis Time..: 00:28		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-32S

General Chemistry

Lot-Sample #...: F7H290155-007 **Work Order #...:** J5TK8 **Matrix.....:** SOLID
Date Sampled...: 07/28/07 08:00 **Date Received..:** 08/28/07
% Moisture.....: 2.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.1**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-32D

TOTAL Metals

Lot-Sample #...: F7H290155-008 **Matrix.....:** SOLID
Date Sampled...: 07/28/07 08:00 **Date Received..:** 08/28/07
% Moisture.....: 2.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**5.4**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLC1AC**
		Dilution Factor: 1		Analysis Time..: 00:32		
Uranium	**0.73**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLC1AD**
		Dilution Factor: 1		Analysis Time..: 00:32		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-32D

General Chemistry

Lot-Sample #...: F7H290155-008 **Work Order #...:** J5TLC **Matrix.....:** SOLID
Date Sampled...: 07/28/07 08:00 **Date Received..:** 08/28/07
% Moisture.....: 2.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.1**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-30S

TOTAL Metals

Lot-Sample #...: F7H290155-009 **Matrix.....:** SOLID
Date Sampled...: 07/28/07 10:00 **Date Received..:** 08/28/07
% Moisture.....: 1.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**8.0**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLD1AC**
		Dilution Factor: 1		Analysis Time..: 00:35		
Uranium	**1.1**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLD1AD**
		Dilution Factor: 1		Analysis Time..: 00:35		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-30S

General Chemistry

Lot-Sample #...: F7H290155-009 **Work Order #...:** J5TLD **Matrix.....:** SOLID
Date Sampled...: 07/28/07 10:00 **Date Received..:** 08/28/07
% Moisture.....: 1.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-30D

TOTAL Metals

Lot-Sample #...: F7H290155-010 **Matrix.....:** SOLID
Date Sampled...: 07/28/07 10:00 **Date Received..:** 08/28/07
% Moisture.....: 3.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**8.9**	**0.21**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLF1AC**
		Dilution Factor: 1		Analysis Time..: 00:39		
Uranium	**1.1**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLF1AD**
		Dilution Factor: 1		Analysis Time..: 00:39		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-30D

General Chemistry

Lot-Sample #...: F7H290155-010 **Work Order #...:** J5TLF **Matrix.....:** SOLID
Date Sampled...: 07/28/07 10:00 **Date Received..:** 08/28/07
% Moisture.....: 3.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**3.0**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-07S

TOTAL Metals

Lot-Sample #...: F7H290155-011 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 09:00 **Date Received..:** 08/28/07
% Moisture.....: 0.86

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**7.2**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLH1AC**
		Dilution Factor: 1		Analysis Time..: 00:43		
Uranium	**0.96**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLH1AD**
		Dilution Factor: 1		Analysis Time..: 00:43		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-07S

General Chemistry

Lot-Sample #...: F7H290155-011 **Work Order #...:** J5TLH **Matrix.....:** SOLID
Date Sampled...: 07/27/07 09:00 **Date Received..:** 08/28/07
% Moisture.....: 0.86

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**0.86**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-07D

TOTAL Metals

Lot-Sample #...: F7H290155-012 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 09:00 **Date Received..:** 08/28/07
% Moisture.....: 2.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**5.6**	**0.21**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLN1AC**
		Dilution Factor: 1		Analysis Time..: 00:46		
Uranium	**0.80**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLN1AD**
		Dilution Factor: 1		Analysis Time..: 00:46		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-07D

General Chemistry

Lot-Sample #...: F7H290155-012 **Work Order #...:** J5TLN **Matrix.....:** SOLID
Date Sampled...: 07/27/07 09:00 **Date Received..:** 08/28/07
% Moisture.....: 2.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.9**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-08S

TOTAL Metals

Lot-Sample #...: F7H290155-013 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 10:30 **Date Received..:** 08/28/07
% Moisture.....: 1.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**7.0**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLP1AC**
		Dilution Factor: 1		Analysis Time..: 00:50		
Uranium	**1.2**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLP1AD**
		Dilution Factor: 1		Analysis Time..: 00:50		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-08S

General Chemistry

Lot-Sample #...: F7H290155-013 **Work Order #...:** J5TLP **Matrix.....:** SOLID
Date Sampled...: 07/27/07 10:30 **Date Received..:** 08/28/07
% Moisture.....: 1.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.6**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-08D

TOTAL Metals

Lot-Sample #...: F7H290155-014 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 10:30 **Date Received..:** 08/28/07
% Moisture.....: 2.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**7.7**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLR1AC**
		Dilution Factor: 1		Analysis Time..: 01:02		
Uranium	**0.88**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLR1AD**
		Dilution Factor: 1		Analysis Time..: 01:02		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-08D

General Chemistry

Lot-Sample #...: F7H290155-014 **Work Order #...:** J5TLR **Matrix.....:** SOLID
Date Sampled...: 07/27/07 10:30 **Date Received..:** 08/28/07
% Moisture.....: 2.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.0**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-11S

TOTAL Metals

Lot-Sample #...: F7H290155-015 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 11:30 **Date Received..:** 08/28/07
% Moisture.....: 1.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**6.9**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLW1AC**
		Dilution Factor: 1		Analysis Time..: 01:05		
Uranium	**0.94**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TLW1AD**
		Dilution Factor: 1		Analysis Time..: 01:05		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-11S

General Chemistry

Lot-Sample #...: F7H290155-015 **Work Order #...:** J5TLW **Matrix.....:** SOLID
Date Sampled...: 07/27/07 11:30 **Date Received..:** 08/28/07
% Moisture.....: 1.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.7**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-11D-1

TOTAL Metals

Lot-Sample #...: F7H290155-016 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 11:30 **Date Received..:** 08/28/07
% Moisture.....: 1.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**5.5**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TL01AC**
		Dilution Factor: 1		Analysis Time..: 01:09		
Uranium	**0.73**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TL01AD**
		Dilution Factor: 1		Analysis Time..: 01:09		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-11D-1

General Chemistry

Lot-Sample #...: F7H290155-016 **Work Order #...:** J5TL0 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 11:30 **Date Received..:** 08/28/07
% Moisture.....: 1.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.8**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-11D-2

TOTAL Metals

Lot-Sample #...: F7H290155-017 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 11:30 **Date Received..:** 08/28/07
% Moisture.....: 2.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**5.9**	**0.21**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TL11AC**
		Dilution Factor: 1		Analysis Time..: 01:13		
Uranium	**0.82**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TL11AD**
		Dilution Factor: 1		Analysis Time..: 01:13		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-11D-2

General Chemistry

Lot-Sample #...: F7H290155-017 **Work Order #...:** J5TL1 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 11:30 **Date Received..:** 08/28/07
% Moisture.....: 2.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.6**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-12S

TOTAL Metals

Lot-Sample #...: F7H290155-018 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 12:15 **Date Received..:** 08/28/07
% Moisture.....: 1.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**6.2**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TL51AC**
		Dilution Factor: 1		Analysis Time..: 01:16		
Uranium	**0.86**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TL51AD**
		Dilution Factor: 1		Analysis Time..: 01:16		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-12S

General Chemistry

Lot-Sample #...: F7H290155-018 **Work Order #...:** J5TL5 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 12:15 **Date Received..:** 08/28/07
% Moisture.....: 1.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.0**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A1-12D

TOTAL Metals

Lot-Sample #...: F7H290155-019 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 12:15 **Date Received..:** 08/28/07
% Moisture.....: 2.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7243107						
Thorium	**5.6**	**0.20**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TL81AC**
		Dilution Factor: 1		Analysis Time..: 01:20		
Uranium	**0.99**	**0.10**	**mg/kg**	**SW846 6020**	**08/31-09/20/07**	**J5TL81AD**
		Dilution Factor: 1		Analysis Time..: 01:20		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-12D

General Chemistry

Lot-Sample #...: F7H290155-019 **Work Order #...:** J5TL8 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 12:15 **Date Received..:** 08/28/07
% Moisture.....: 2.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.3**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242129**

Dilution Factor: 1 Analysis Time..: 00:00

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F7H290155 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F7H310000-107 **Prep Batch #...:** 7243107						
Thorium	ND	0.20	mg/kg	SW846 6020	08/31-09/19/07	J51F51AA
		Dilution Factor: 1				
		Analysis Time..: 23:40				
Uranium	ND	0.10	mg/kg	SW846 6020	08/31-09/19/07	J51F51AC
		Dilution Factor: 1				
		Analysis Time..: 23:40				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F7H290155 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F7H310000-107 **Prep Batch #...:** 7243107					
Thorium	103	(80 - 120)	SW846 6020	08/31-09/19/07	J51F51AD
		Dilution Factor: 1	Analysis Time..: 23:43		
Uranium	102	(80 - 120)	SW846 6020	08/31-09/19/07	J51F51AE
		Dilution Factor: 1	Analysis Time..: 23:43		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F7H290155 **Matrix.....:** SOLID
Date Sampled...: 07/27/07 14:30 **Date Received..:** 08/28/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F7H290155-001 **Prep Batch #...:** 7243107							
						% Moisture.....: 0.90	
Thorium	116	(75 - 125)			SW846 6020	08/31-09/19/07	J5TJ71AE
	117	(75 - 125)	1.3	(0-30)	SW846 6020	08/31-09/19/07	J5TJ71AF
		Dilution Factor: 1					
		Analysis Time..: 23:54					
Uranium	114	(75 - 125)			SW846 6020	08/31-09/19/07	J5TJ71AG
	113	(75 - 125)	0.93	(0-30)	SW846 6020	08/31-09/19/07	J5TJ71AH
		Dilution Factor: 1					
		Analysis Time..: 23:54					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F7H290155 **Work Order #...:** J5TL8-SMP J5TL8-DUP **Matrix.....:** SOLID

Date Sampled...: 07/27/07 12:15 **Date Received..:** 08/28/07

% Moisture.....: 2.3

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	F7H290155-019	
	2.3	2.2	%	3.9	(0-30)	MCAWW 160.3 MOD	08/30-08/31/07	7242129

Dilution Factor: 1 Analysis Time..: 00:00

BROWN AND CALDWELL CUT 145

CHAIN OF CUSTODY RECORD

COC No._____

☐ 3264 Goni Road / Suite 153
Carson City, NV 89706
775-883-4118 / FAX 775-883-5108

☐ 4425 W. Spring Mountain Road / Suite 225
Las Vegas, NV 89102
702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 500
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS:

LINE NO.	SAMPLE - I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESERVATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC - REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN / END	PID READING (ppm)
01	BGS-A1-09S	7/27/07	14:30	PB	1	4oz glass	none	S	U, Th (SW 6020 B)					----	
02	BGS-A1-09D	↓	↓	↓	↓	↓	↓	↓	all 120G except					----	
03	BGS-A1-10S		15:15						A246847, they					----	
04	BGS-A1-10D		↓						are 500G each.					----	
05	BGS-A1-27S		16:15						SW 08.29.07					----	
06	BGS-A1-27D	↓	↓											----	
07	BGS-A1-32S	7/28/07	08:00								M			----	
08	BGS-A1-32D	↓	↓											----	
09	BGS-A1-30S		10:00											----	
10	BGS-A1-30D	↓	↓	↓	↓	↓	↓	↓	↓					----	

COLLECTED & RELEASED BY: Jenny Barnett	DATE 8/24/07	TIME 1400	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY: [signature]	DATE 08 28 07	TIME :0900	RELINQUISHED BY:	DATE / /	TIME :	
RECORD RETURNED BY:	DATE / /	TIME :				Enfos Billing
COURIER:			SHIPPING NUMBER:			001KF-0109

DISTRIBUTION: WHITE – PROJECT FILE • CANARY – LAB RECEIPT • PINK – DATA MANAGEMENT • GOLDENROD – FIELD

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

TestAmerica St. Louis

LOT #F7H290155

BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No._____

☐ 3264 Goni Road / Suite 153
Carson City, NV 89706
775-883-4118 / FAX 775-883-5108

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602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS:

LINE NO.	SAMPLE - I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESERVATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC - REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN - END	PID READING (ppm)
01	BGS-A1-07S	7/27/07	09:20	PB	1	4oz glass	none	S	U, Th – SW 6020B					----	
02	BGS-A1-07D	↓	↓	↓	↓	↓	↓	↓	↓					----	
03	BGS-A1-08S		10:30											----	
04	BGS-A1-08D		↓											----	
05	BGS-A1-11S		11:30											----	
06	BGS-A1-11D-1		↓											----	
07	BGS-A1-11D-2		↓											----	
08	BGS-A1-12S		12:15								M			----	
09	BGS-A1-12D	↓	↓	↓	↓	↓	↓	↓	↓		7			----	
10														----	

COLLECTED & RELEASED BY: Jenny Barnett	DATE 8/24/07	TIME 1400	COOLER I.D.:			COMMENTS (see note on back):	
RECEIVED BY: [signature] 08-28-07	DATE 08/28/07	TIME 0900	RELINQUISHED BY:	DATE / /	TIME :		
RECORD RETURNED BY:	DATE / /	TIME :				Enfos Billing	
COURIER:			SHIPPING NUMBER:			001KF-0109	

DISTRIBUTION: WHITE – PROJECT FILE • CANARY – LAB RECEIPT • PINK – DATA MANAGEMENT • GOLDENROD – FIELD

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

TestAmerica St. Louis

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F7H290155- F7H290227, 264
200- 235-
206- 249-
214- 265

Condition Upon Receipt Form

Client: Brown & Caldwell COC/RFA No: N/A Date: 8/28/07
Quote No: 76696 Initiated By: BN / BN Time: 0900

Shipping Information

Shipper Name: FE

Multiple Packages (Y) N

Shipping # (s):*

1.	7913-7409-1524	6.	
2.	1546	7.	
3.	1557	8.	
4.		9.	
5.		10.	

Sample Temperature (s):**

1.	Ambient	6.	
2.		7.	
3.		8.	
4.		9.	
5.		10.	

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	(Y) N	Are there custody seals present on the cooler?	8.	Y (N)	Are there custody seals present on bottles?
2.	Y (N) N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N (N/A)	Do custody seals on bottles appear to be tampered with?
3.	(Y) N	Were contents of cooler frisked after opening, but before unpacking?	10.	(Y) N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	(Y) N	Sample received with Chain of Custody?	11.	Y N	If N/A- Was pH taken by original TestAmerica lab?
5.	(Y) N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	(Y) N	Sample received in proper containers?
6.	Y (N)	Was sample received broken?	13.	Y N (N/A)	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	(Y) N	Is sample volume sufficient for analysis?	14.	Y N	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes: Custody seals were placed on top of coolers, not at seam.
Samples received out of temp.

Corrective Action:
☐ Client Contact Name: Informed by:
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: If released, notify:
Project Management Review: [signature] Date: 8-31-7

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004. REVISED 08/06/07\\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc