TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. SOIL PROJECT

Brown and Caldwell

Lot #: F7H290249

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September 25, 2007

Case Narrative
LOT NUMBER: **F7H290249**

This report contains the analytical results for the 18 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

F7H290249

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

F7H290249

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
J5VK0	001	BGS-A2-67S	08/16/07	08:00
J5VK9	002	BGS-A2-67D	08/16/07	08:00
J5VLC	003	BGS-A2-67F	08/16/07	08:00
J5VLD	004	BGS-A2-68S	08/16/07	08:45
J5VLF	005	BGS-A2-68D	08/16/07	08:45
J5VLL	006	BGS-A2-69S	08/16/07	09:30
J5VLN	007	BGS-A2-69D	08/16/07	09:30
J5VLP	008	BGS-A2-71S	08/16/07	10:15
J5VLT	009	BGS-A2-71D	08/16/07	10:15
J5VLV	010	BGS-A2-70S	08/16/07	10:45
J5VLX	011	BGS-A2-70D	08/16/07	10:45
J5VL1	012	BGS-A2-72S	08/16/07	12:15
J5VL4	013	BGS-A2-72D	08/16/07	12:15
J5VL5	014	BGS-A2-73S	08/16/07	13:30
J5VL6	015	BGS-A2-73D	08/16/07	13:30
J5VL7	016	BGS-A2-74S	08/16/07	14:00
J5VMA	017	BGS-A2-74D	08/16/07	14:00
J5VMD	018	BGS-A2-74E	08/16/07	15:00

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-A2-67S

TOTAL Metals

Lot-Sample #...: F7H290249-001 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 08:00 **Date Received..:** 08/28/07
% Moisture.....: 1.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**7.9**	**0.20**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VK01AC**
		Dilution Factor: 1		Analysis Time..: 22:59		
Uranium	**1.5**	**0.10**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VK01AD**
		Dilution Factor: 1		Analysis Time..: 22:59		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-67S

General Chemistry

Lot-Sample #...: F7H290249-001 **Work Order #...:** J5VK0 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 08:00 **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**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-67D

TOTAL Metals

Lot-Sample #...: F7H290249-002 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 08:00 **Date Received..:** 08/28/07
% Moisture.....: 2.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**4.0**	**0.20**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VK91AC**
		Dilution Factor: 1		Analysis Time..: 23:14		
Uranium	**1.6**	**0.10**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VK91AD**
		Dilution Factor: 1		Analysis Time..: 23:14		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-67D

General Chemistry

Lot-Sample #...: F7H290249-002 **Work Order #...:** J5VK9 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 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**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-67F

TOTAL Metals

Lot-Sample #...: F7H290249-003 **Matrix.....:** WATER
Date Sampled...: 08/16/07 08:00 **Date Received..:** 08/28/07

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253324						
Thorium	**3.3**	**2.0**	**ug/L**	**SW846 6020**	**09/10-09/19/07**	**J5VLC1AA**
		Dilution Factor: 1		Analysis Time..: 17:10		
Uranium	ND	1.0	ug/L	SW846 6020	09/10-09/19/07	J5VLC1AC
		Dilution Factor: 1		Analysis Time..: 17:10		

TestAmerica Irvine

Client Sample ID: BGS-A2-68S

TOTAL Metals

Lot-Sample #...: F7H290249-004 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 08:45 **Date Received..:** 08/28/07
% Moisture.....: 3.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**7.0**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLD1AC**
		Dilution Factor: 1		Analysis Time..: 23:18		
Uranium	**1.0**	**0.10**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLD1AD**
		Dilution Factor: 1		Analysis Time..: 23:18		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-68S

General Chemistry

Lot-Sample #...: F7H290249-004 **Work Order #...:** J5VLD **Matrix.....:** SOLID
Date Sampled...: 08/16/07 08:45 **Date Received..:** 08/28/07
% Moisture.....: 3.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**3.7**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-68D

TOTAL Metals

Lot-Sample #...: F7H290249-005 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 08:45 **Date Received..:** 08/28/07
% Moisture.....: 2.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**6.7**	**0.20**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLF1AC**
		Dilution Factor: 1		Analysis Time..: 23:30		
Uranium	**1.9**	**0.10**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLF1AD**
		Dilution Factor: 1		Analysis Time..: 23:30		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-68D

General Chemistry

Lot-Sample #...: F7H290249-005 **Work Order #...:** J5VLF **Matrix.....:** SOLID
Date Sampled...: 08/16/07 08:45 **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**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-69S

TOTAL Metals

Lot-Sample #...: F7H290249-006 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 09:30 **Date Received..:** 08/28/07
% Moisture.....: 3.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**8.0**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLL1AC**
		Dilution Factor: 1		Analysis Time..: 23:33		
Uranium	**0.94**	**0.10**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLL1AD**
		Dilution Factor: 1		Analysis Time..: 23:33		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-69S

General Chemistry

Lot-Sample #...: F7H290249-006 **Work Order #...:** J5VLL **Matrix.....:** SOLID
Date Sampled...: 08/16/07 09:30 **Date Received..:** 08/28/07
% Moisture.....: 3.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**3.9**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-69D

TOTAL Metals

Lot-Sample #...: F7H290249-007 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 09:30 **Date Received..:** 08/28/07
% Moisture.....: 6.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**10.8**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLN1AC**
		Dilution Factor: 1		Analysis Time..: 23:37		
Uranium	**1.4**	**0.11**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLN1AD**
		Dilution Factor: 1		Analysis Time..: 23:37		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-69D

General Chemistry

Lot-Sample #...: F7H290249-007 **Work Order #...:** J5VLN **Matrix.....:** SOLID
Date Sampled...: 08/16/07 09:30 **Date Received..:** 08/28/07
% Moisture.....: 6.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**6.6**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-71S

TOTAL Metals

Lot-Sample #...: F7H290249-008 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 10:15 **Date Received..:** 08/28/07
% Moisture.....: 3.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**7.1**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLP1AC**
		Dilution Factor: 1		Analysis Time..: 23:41		
Uranium	**0.75**	**0.10**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLP1AD**
		Dilution Factor: 1		Analysis Time..: 23:41		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-71S

General Chemistry

Lot-Sample #...: F7H290249-008 **Work Order #...:** J5VLP **Matrix.....:** SOLID
Date Sampled...: 08/16/07 10:15 **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**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-71D

TOTAL Metals

Lot-Sample #...: F7H290249-009 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 10:15 **Date Received..:** 08/28/07
% Moisture.....: 2.5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**9.3**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLT1AC**
		Dilution Factor: 1		Analysis Time..: 23:44		
Uranium	**0.96**	**0.10**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLT1AD**
		Dilution Factor: 1		Analysis Time..: 23:44		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-71D

General Chemistry

Lot-Sample #...: F7H290249-009 **Work Order #...:** J5VLT **Matrix.....:** SOLID
Date Sampled...: 08/16/07 10:15 **Date Received..:** 08/28/07
% Moisture.....: 2.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.5**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-70S

TOTAL Metals

Lot-Sample #...: F7H290249-010 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 10:45 **Date Received..:** 08/28/07
% Moisture.....: 5.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**8.1**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLV1AC**
		Dilution Factor: 1		Analysis Time..: 23:48		
Uranium	**1.1**	**0.11**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLV1AD**
		Dilution Factor: 1		Analysis Time..: 23:48		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-70S

General Chemistry

Lot-Sample #...: F7H290249-010 **Work Order #...:** J5VLV **Matrix.....:** SOLID
Date Sampled...: 08/16/07 10:45 **Date Received..:** 08/28/07
% Moisture.....: 5.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**5.9**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-70D

TOTAL Metals

Lot-Sample #...: F7H290249-011 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 10:45 **Date Received..:** 08/28/07
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**15.6**	**0.23**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLX1AC**
		Dilution Factor: 1		Analysis Time..: 23:51		
Uranium	**5.9**	**0.12**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VLX1AD**
		Dilution Factor: 1		Analysis Time..: 23:51		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-70D

General Chemistry

Lot-Sample #...: F7H290249-011 **Work Order #...:** J5VLX **Matrix.....:** SOLID
Date Sampled...: 08/16/07 10:45 **Date Received..:** 08/28/07
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**14.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-72S

TOTAL Metals

Lot-Sample #...: F7H290249-012 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 12:15 **Date Received..:** 08/28/07
% Moisture.....: 5.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**8.7**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VL11AC**
		Dilution Factor: 1		Analysis Time..: 23:55		
Uranium	**1.3**	**0.11**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VL11AD**
		Dilution Factor: 1		Analysis Time..: 23:55		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-72S

General Chemistry

Lot-Sample #...: F7H290249-012 **Work Order #...:** J5VL1 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 12:15 **Date Received..:** 08/28/07
% Moisture.....: 5.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**5.6**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-72D

TOTAL Metals

Lot-Sample #...: F7H290249-013 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 12:15 **Date Received..:** 08/28/07
% Moisture.....: 1.5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**6.1**	**0.20**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VL41AC**
		Dilution Factor: 1		Analysis Time..: 23:59		
Uranium	**1.6**	**0.10**	**mg/kg**	**SW846 6020**	**09/11-09/18/07**	**J5VL41AD**
		Dilution Factor: 1		Analysis Time..: 23:59		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-72D

General Chemistry

Lot-Sample #...: F7H290249-013 **Work Order #...:** J5VL4 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 12:15 **Date Received..:** 08/28/07
% Moisture.....: 1.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.5**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-73S

TOTAL Metals

Lot-Sample #...: F7H290249-014 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 13:30 **Date Received..:** 08/28/07
% Moisture.....: 9.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**11.8**	**0.22**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VL51AC**
		Dilution Factor: 1		Analysis Time..: 00:02		
Uranium	**1.2**	**0.11**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VL51AD**
		Dilution Factor: 1		Analysis Time..: 00:02		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-73S

General Chemistry

Lot-Sample #...: F7H290249-014 **Work Order #...:** J5VL5 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 13:30 **Date Received..:** 08/28/07
% Moisture.....: 9.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**9.6**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-73D

TOTAL Metals

Lot-Sample #...: F7H290249-015 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 13:30 **Date Received..:** 08/28/07
% Moisture.....: 2.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**8.5**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VL61AC**
		Dilution Factor: 1		Analysis Time..: 00:14		
Uranium	**1.7**	**0.10**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VL61AD**
		Dilution Factor: 1		Analysis Time..: 00:14		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-73D

General Chemistry

Lot-Sample #...: F7H290249-015 **Work Order #...:** J5VL6 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 13:30 **Date Received..:** 08/28/07
% Moisture.....: 2.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.8**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-74S

TOTAL Metals

Lot-Sample #...: F7H290249-016 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 14:00 **Date Received..:** 08/28/07
% Moisture.....: 6.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**10.4**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VL71AC**
		Dilution Factor: 1		Analysis Time..: 00:18		
Uranium	**1.0**	**0.11**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VL71AD**
		Dilution Factor: 1		Analysis Time..: 00:18		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-74S

General Chemistry

Lot-Sample #...: F7H290249-016 **Work Order #...:** J5VL7 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 14:00 **Date Received..:** 08/28/07
% Moisture.....: 6.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**6.1**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-74D

TOTAL Metals

Lot-Sample #...: F7H290249-017 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 14:00 **Date Received..:** 08/28/07
% Moisture.....: 2.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254074						
Thorium	**4.3**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VMA1AC**
		Dilution Factor: 1		Analysis Time..: 00:22		
Uranium	**2.9**	**0.10**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VMA1AD**
		Dilution Factor: 1		Analysis Time..: 00:22		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-74D

General Chemistry

Lot-Sample #...: F7H290249-017 **Work Order #...:** J5VMA **Matrix.....:** SOLID
Date Sampled...: 08/16/07 14:00 **Date Received..:** 08/28/07
% Moisture.....: 2.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.8**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/31-09/01/07**	**7242143**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-74E

TOTAL Metals

Lot-Sample #...: F7H290249-018 **Matrix.....:** WATER
Date Sampled...: 08/16/07 15:00 **Date Received..:** 08/28/07

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253324						
Thorium	**0.76 B**	**2.0**	**ug/L**	**SW846 6020**	**09/10-09/19/07**	**J5VMD1AA**
		Dilution Factor: 1		Analysis Time..: 17:14		
Uranium	ND	1.0	ug/L	SW846 6020	09/10-09/19/07	J5VMD1AC
		Dilution Factor: 1		Analysis Time..: 17:14		

NOTE(S):

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F7H290249 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F7I100000-324 **Prep Batch #...:** 7253324						
Thorium	ND	2	ug/L	SW846 6020	09/10-09/19/07	J6G431AA
		Dilution Factor: 1				
		Analysis Time..: 16:48				
Uranium	ND	1	ug/L	SW846 6020	09/10-09/19/07	J6G431AC
		Dilution Factor: 1				
		Analysis Time..: 16:48				

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F7H290249 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F7I110000-074 **Prep Batch #...:** 7254074						
Thorium	ND	0.20	mg/kg	SW846 6020	09/11-09/18/07	J6HVQ1AA
		Dilution Factor: 1				
		Analysis Time..: 22:52				
Uranium	ND	0.10	mg/kg	SW846 6020	09/11-09/18/07	J6HVQ1AC
		Dilution Factor: 1				
		Analysis Time..: 22:52				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F7H290249 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F7I100000-324 **Prep Batch #...:** 7253324					
Thorium	105	(85 - 115)	SW846 6020	09/10-09/19/07	J6G431AD
		Dilution Factor: 1	Analysis Time..: 16:52		
Uranium	109	(85 - 115)	SW846 6020	09/10-09/19/07	J6G431AE
		Dilution Factor: 1	Analysis Time..: 16:52		

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F7H290249 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F7I110000-074 **Prep Batch #...:** 7254074					
Thorium	96	(80 - 120)	SW846 6020	09/11-09/18/07	J6HVQ1AD
		Dilution Factor: 1	Analysis Time..: 22:56		
Uranium	97	(80 - 120)	SW846 6020	09/11-09/18/07	J6HVQ1AE
		Dilution Factor: 1	Analysis Time..: 22:56		

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F7H290249 **Matrix.....:** WATER
Date Sampled...: 08/14/07 15:00 **Date Received..:** 08/28/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F7H290235-020 **Prep Batch #...:** 7253324							
Thorium	104	(75 - 125)			SW846 6020	09/10-09/19/07	J5VGM1AD
	107	(75 - 125)	2.5	(0-20)	SW846 6020	09/10-09/19/07	J5VGM1AE
		Dilution Factor: 1					
		Analysis Time..: 17:03					
Uranium	108	(75 - 125)			SW846 6020	09/10-09/19/07	J5VGM1AF
	109	(75 - 125)	1.4	(0-20)	SW846 6020	09/10-09/19/07	J5VGM1AG
		Dilution Factor: 1					
		Analysis Time..: 17:03					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F7H290249 **Matrix.....:** SOLID
Date Sampled...: 08/16/07 08:00 **Date Received..:** 08/28/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F7H290249-001 **Prep Batch #...:** 7254074							
						% Moisture.....: 1.8	
Thorium	100	(75 - 125)			SW846 6020	09/11-09/18/07	J5VK01AE
	106	(75 - 125)	5.3	(0-30)	SW846 6020	09/11-09/18/07	J5VK01AF
		Dilution Factor: 1					
		Analysis Time..: 23:03					
Uranium	109	(75 - 125)			SW846 6020	09/11-09/18/07	J5VK01AG
	115	(75 - 125)	5.6	(0-30)	SW846 6020	09/11-09/18/07	J5VK01AH
		Dilution Factor: 1					
		Analysis Time..: 23:03					

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 #...: F7H290249 **Work Order #...:** J5VMA-SMP J5VMA-DUP **Matrix.....:** SOLID

Date Sampled...: 08/16/07 14:00 **Date Received..:** 08/28/07

% Moisture.....: 2.8

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	F7H290249-017	
	2.8	3.9	%	33	(0-30)	MCAWW 160.3 MOD	08/31-09/01/07	7242143

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

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

☐ 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
PROJECT NUMBER: 132039
LABORATORY NAME & ADDRESS: Test America - St. Louis

LINE NO.	SAMPLE - I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC - REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN / END	PID READING (ppm)
01	BGS-A2-67S	8/16/07	08:00	PB	1	9oz Plastic	NONE	S	U, Th (6020)		M			----	
02	BGS-A2-67D	↓	↓	↓	↓	↓	↓	↓	↓					----	
03	BGS-A2-67F	↓	↓	↓	↓	500mL Plastic	HNO_3	W	↓					----	
04	BGS-A2-68S	↓	08:45	↓	↓	9oz Plastic	NONE	S	↓					----	
05	BGS-A2-68D	↓	↓	↓	↓	↓	↓	↓	↓					----	
06	BGS-A2-69S	↓	09:30	↓	↓	↓	↓	↓	↓					----	
07	BGS-A2-69D	↓	↓	↓	↓	↓	↓	↓	↓					----	
08	BGS-A2-71S	↓	10:15	↓	↓	↓	↓	↓	↓					----	
09	BGS-A2-71D	↓	↓	↓	↓	↓	↓	↓	↓					----	
10														----	

COLLECTED & RELEASED BY: Penny Bassett	DATE 8/24/07	TIME 1400	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY: [illegible]	DATE 8/24/07	TIME 0900	RELINQUISHED BY:	DATE / /	TIME :	
						00KF-0109
RECORD RETURNED BY:	DATE / /	TIME :				
COURIER:			SHIPPING NUMBER:			

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.

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

☐ 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: Terrington
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: Test America - St. Louis

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-A2-70S	8/6/07	10:45	PB	1	902 Plastic	NONE	S	U, Th (6020)					----	
02	BGS-A2-70D		↓	↓	↓	↓	↓	↓	↓					----	
03	BGS-A2-72S		12:15						~~Metals (6010, 6020, 7471)~~ Pb					----	
04	BGS-A2-72D		↓											----	
05	BGS-A2-73S		13:30											----	
06	BGS-A2-73D		↓											----	
07	BGS-A2-74S		14:00											----	
08	BGS-A2-74D		↓	↓	↓	↓	↓	↓						----	
09	BGS-A2-74E		15:00	PB	1	500 mL Plastic	HNO_3	W						----	
10														----	

COLLECTED & RELEASED BY: Penny Bissell	DATE 8/24/07	TIME 1400	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY: [illegible]	DATE 8/28/07	TIME 0900	RELINQUISHED BY:	DATE / /	TIME :	
						00KF-0109
RECORD RETURNED BY:	DATE / /	TIME :				
COURIER:			SHIPPING NUMBER:			

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
THE LEADER IN ENVIRONMENTAL TESTING

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

- 145 -

Condition Upon Receipt Form

Client: Brown & Caldwell COC/RFA No: N/A Date: 8/28/07
Quote No: 76496 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: 9-5-7

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