Appendix E-4

MWMP Laboratory Reports

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project: BP Yerington, NV, 136259

Sampled: 10/22/08
Received: 10/29/08
Issued: 11/12/08 15:53

NELAP #01108CA Nevada #CA-72

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 22°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IRJ2815-01	OU4-LEP-01-MW	Water
IRJ2815-02	OU4-LEP-03A-MW	Water
IRJ2815-03	OU4-LEP-05A-MW	Water
IRJ2815-04	OU4-FEP-13A-MW	Water
IRJ2815-05	OU4-UEP-07A-MW	Water
IRJ2815-06	OU4-UEP-08A-MW	Water
IRJ2815-07	OU4-UEP-10A-MW	Water
IRJ2815-08	Filter Blank	Water

Reviewed By:

TestAmerica Irvine

Patty Mata
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV, 136259

Report Number: IRJ2815

Sampled: 10/22/08
Received: 10/29/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ2815-01 (OU4-LEP-01-MW - Water)									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	8J30114	0.40	0.50	**890**	10	10/30/08	10/31/08	
Mercury	EPA 245.1-Diss	8J31103	0.00010	0.00020	**0.00092**	1	10/31/08	10/31/08	M2
Boron	EPA 200.7-Diss	8J30114	0.20	0.50	**1.2**	10	10/30/08	10/31/08	
Calcium	EPA 200.7-Diss	8J30114	0.50	1.0	**460**	10	10/30/08	10/31/08	
Iron	EPA 200.7-Diss	8J30114	0.15	0.40	**780**	10	10/30/08	11/04/08	
Lithium	EPA 200.7-Diss	8J30114	0.30	0.50	**0.86**	10	10/30/08	10/31/08	
Magnesium	EPA 200.7-Diss	8J30114	0.12	0.20	**1000**	10	10/30/08	10/31/08	
Phosphorus	EPA 200.7-Diss	8J30114	0.20	0.40	**12**	10	10/30/08	10/31/08	
Potassium	EPA 200.7-Diss	8J30114	3.7	5.0	ND	10	10/30/08	11/07/08	RL1
Sodium	EPA 200.7-Diss	8J30114	1.9	5.0	**410**	10	10/30/08	11/02/08	
Strontium	EPA 200.7-Diss	8J30114	0.050	0.20	**2.9**	10	10/30/08	10/31/08	
Tin	EPA 200.7-Diss	8J30114	0.12	1.0	ND	10	10/30/08	10/31/08	RL1
Titanium	EPA 200.7-Diss	8J30114	0.020	0.050	ND	10	10/30/08	10/31/08	RL1
Sample ID: IRJ2815-02 (OU4-LEP-03A-MW - Water)									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	8J30114	0.20	0.25	**35**	5	10/30/08	10/31/08	
Mercury	EPA 245.1-Diss	8J31103	0.00010	0.00020	**0.00070**	1	10/31/08	10/31/08	
Boron	EPA 200.7-Diss	8J30114	0.10	0.25	**8.6**	5	10/30/08	10/31/08	
Calcium	EPA 200.7-Diss	8J30114	0.25	0.50	**210**	5	10/30/08	10/31/08	
Iron	EPA 200.7-Diss	8J30114	0.075	0.20	**120**	5	10/30/08	11/04/08	
Lithium	EPA 200.7-Diss	8J30114	0.15	0.25	**0.19**	5	10/30/08	10/31/08	RL1, J
Magnesium	EPA 200.7-Diss	8J30114	0.060	0.10	**340**	5	10/30/08	10/31/08	
Phosphorus	EPA 200.7-Diss	8J30114	0.10	0.20	ND	5	10/30/08	10/31/08	RL1
Potassium	EPA 200.7-Diss	8J30114	1.8	2.5	**3.9**	5	10/30/08	11/07/08	
Sodium	EPA 200.7-Diss	8J30114	0.95	2.5	**2600**	5	10/30/08	11/02/08	
Strontium	EPA 200.7-Diss	8J30114	0.025	0.10	**4.1**	5	10/30/08	10/31/08	
Tin	EPA 200.7-Diss	8J30114	0.060	0.50	ND	5	10/30/08	10/31/08	RL1
Titanium	EPA 200.7-Diss	8J30114	0.010	0.025	ND	5	10/30/08	10/31/08	RL1

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Patty Mata
Project Manager

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV, 136259

Report Number: IRJ2815

Sampled: 10/22/08
Received: 10/29/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ2815-03 (OU4-LEP-05A-MW - Water)									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	8J30114	0.080	0.10	**0.17**	2	10/30/08	10/31/08	
Mercury	EPA 245.1-Diss	8J31103	0.00010	0.00020	ND	1	10/31/08	11/01/08	
Boron	EPA 200.7-Diss	8J30114	0.040	0.10	**15**	2	10/30/08	10/31/08	
Calcium	EPA 200.7-Diss	8J30114	0.10	0.20	**130**	2	10/30/08	10/31/08	
Iron	EPA 200.7-Diss	8J30114	0.030	0.080	ND	2	10/30/08	11/04/08	
Lithium	EPA 200.7-Diss	8J30114	0.060	0.10	**0.066**	2	10/30/08	10/31/08	RL1, J
Magnesium	EPA 200.7-Diss	8J30114	0.024	0.040	**160**	2	10/30/08	10/31/08	
Phosphorus	EPA 200.7-Diss	8J30114	0.040	0.080	ND	2	10/30/08	10/31/08	RL1
Potassium	EPA 200.7-Diss	8J30114	1.5	2.0	**3.2**	4	10/30/08	11/07/08	
Sodium	EPA 200.7-Diss	8J30114	0.76	2.0	**1900**	4	10/30/08	11/02/08	
Strontium	EPA 200.7-Diss	8J30114	0.010	0.040	**1.9**	2	10/30/08	10/31/08	
Tin	EPA 200.7-Diss	8J30114	0.024	0.20	ND	2	10/30/08	10/31/08	RL1
Titanium	EPA 200.7-Diss	8J30114	0.0040	0.010	ND	2	10/30/08	10/31/08	RL1
Sample ID: IRJ2815-04 (OU4-FEP-13A-MW - Water)									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	8J30114	0.080	0.10	**130**	2	10/30/08	10/31/08	
Mercury	EPA 245.1-Diss	8J31103	0.00010	0.00020	**0.00020**	1	10/31/08	11/01/08	
Boron	EPA 200.7-Diss	8J30114	0.040	0.10	**0.52**	2	10/30/08	10/31/08	
Calcium	EPA 200.7-Diss	8J30114	0.10	0.20	**530**	2	10/30/08	10/31/08	
Iron	EPA 200.7-Diss	8J30114	0.030	0.080	**4.0**	2	10/30/08	11/04/08	
Lithium	EPA 200.7-Diss	8J30114	0.060	0.10	**0.23**	2	10/30/08	10/31/08	
Magnesium	EPA 200.7-Diss	8J30114	0.024	0.040	**130**	2	10/30/08	10/31/08	
Phosphorus	EPA 200.7-Diss	8J30114	0.040	0.080	**0.19**	2	10/30/08	10/31/08	
Potassium	EPA 200.7-Diss	8J30114	0.74	1.0	**58**	2	10/30/08	11/07/08	
Sodium	EPA 200.7-Diss	8J30114	0.38	1.0	**91**	2	10/30/08	11/02/08	
Strontium	EPA 200.7-Diss	8J30114	0.010	0.040	**2.8**	2	10/30/08	10/31/08	
Tin	EPA 200.7-Diss	8J30114	0.024	0.20	ND	2	10/30/08	10/31/08	RL1
Titanium	EPA 200.7-Diss	8J30114	0.0040	0.010	ND	2	10/30/08	10/31/08	RL1

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Project Manager

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV, 136259

Report Number: IRJ2815

Sampled: 10/22/08
Received: 10/29/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ2815-05 (OU4-UEP-07A-MW - Water)									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	8J30114	0.20	0.25	**130**	5	10/30/08	10/31/08	
Mercury	EPA 245.1-Diss	8J31103	0.00010	0.00020	**0.00068**	1	10/31/08	11/01/08	
Boron	EPA 200.7-Diss	8J30114	0.10	0.25	**1.3**	5	10/30/08	10/31/08	
Calcium	EPA 200.7-Diss	8J30114	0.25	0.50	**490**	5	10/30/08	10/31/08	
Iron	EPA 200.7-Diss	8J30114	0.075	0.20	**140**	5	10/30/08	11/04/08	
Lithium	EPA 200.7-Diss	8J30114	0.15	0.25	**0.30**	5	10/30/08	10/31/08	
Magnesium	EPA 200.7-Diss	8J30114	0.060	0.10	**180**	5	10/30/08	10/31/08	
Phosphorus	EPA 200.7-Diss	8J30114	0.10	0.20	ND	5	10/30/08	10/31/08	RL1
Potassium	EPA 200.7-Diss	8J30114	1.8	2.5	ND	5	10/30/08	11/07/08	RL1
Sodium	EPA 200.7-Diss	8J30114	0.95	2.5	**210**	5	10/30/08	11/02/08	
Strontium	EPA 200.7-Diss	8J30114	0.025	0.10	**2.3**	5	10/30/08	10/31/08	
Tin	EPA 200.7-Diss	8J30114	0.060	0.50	ND	5	10/30/08	10/31/08	RL1
Titanium	EPA 200.7-Diss	8J30114	0.010	0.025	ND	5	10/30/08	10/31/08	RL1
Sample ID: IRJ2815-06 (OU4-UEP-08A-MW - Water)									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	8J30114	0.040	0.050	**82**	1	10/30/08	10/31/08	
Mercury	EPA 245.1-Diss	8J31103	0.00010	0.00020	ND	1	10/31/08	11/01/08	
Boron	EPA 200.7-Diss	8J30114	0.020	0.050	**1.1**	1	10/30/08	10/31/08	
Calcium	EPA 200.7-Diss	8J30114	0.10	0.20	**530**	2	10/30/08	10/31/08	
Iron	EPA 200.7-Diss	8J30114	0.015	0.040	**1.0**	1	10/30/08	11/04/08	
Lithium	EPA 200.7-Diss	8J30114	0.030	0.050	**0.25**	1	10/30/08	10/31/08	
Magnesium	EPA 200.7-Diss	8J30114	0.012	0.020	**110**	1	10/30/08	10/31/08	
Phosphorus	EPA 200.7-Diss	8J30114	0.020	0.040	**0.038**	1	10/30/08	10/31/08	J
Potassium	EPA 200.7-Diss	8J30114	0.74	1.0	ND	2	10/30/08	11/07/08	RL1
Sodium	EPA 200.7-Diss	8J30114	0.19	0.50	**200**	1	10/30/08	11/02/08	
Strontium	EPA 200.7-Diss	8J30114	0.0050	0.020	**2.1**	1	10/30/08	10/31/08	
Tin	EPA 200.7-Diss	8J30114	0.012	0.10	ND	1	10/30/08	10/31/08	
Titanium	EPA 200.7-Diss	8J30114	0.0020	0.0050	ND	1	10/30/08	10/31/08	

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Attention: Penny Bassett

Project ID: BP Yerington, NV, 136259
Report Number: IRJ2815

Sampled: 10/22/08
Received: 10/29/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ2815-07 (OU4-UEP-10A-MW - Water)									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	8J30114	0.040	0.050	ND	1	10/30/08	10/31/08	
Mercury	EPA 245.1-Diss	8J31103	0.00010	0.00020	ND	1	10/31/08	11/01/08	
Boron	EPA 200.7-Diss	8J30114	0.020	0.050	**4.5**	1	10/30/08	10/31/08	
Calcium	EPA 200.7-Diss	8J30114	0.050	0.10	**400**	1	10/30/08	10/31/08	
Iron	EPA 200.7-Diss	8J30114	0.015	0.040	ND	1	10/30/08	11/04/08	
Lithium	EPA 200.7-Diss	8J30114	0.030	0.050	**0.14**	1	10/30/08	10/31/08	
Magnesium	EPA 200.7-Diss	8J30114	0.012	0.020	**80**	1	10/30/08	10/31/08	
Phosphorus	EPA 200.7-Diss	8J30114	0.020	0.040	**0.068**	1	10/30/08	10/31/08	
Potassium	EPA 200.7-Diss	8J30114	0.74	1.0	**1.6**	2	10/30/08	11/07/08	
Sodium	EPA 200.7-Diss	8J30114	0.38	1.0	**1500**	2	10/30/08	11/02/08	
Strontium	EPA 200.7-Diss	8J30114	0.0050	0.020	**7.4**	1	10/30/08	10/31/08	
Tin	EPA 200.7-Diss	8J30114	0.012	0.10	ND	1	10/30/08	10/31/08	
Titanium	EPA 200.7-Diss	8J30114	0.0020	0.0050	ND	1	10/30/08	10/31/08	
Sample ID: IRJ2815-08 (Filter Blank - Water)									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	8J30114	0.040	0.050	ND	1	10/30/08	10/31/08	
Mercury	EPA 245.1-Diss	8J31103	0.00010	0.00020	ND	1	10/31/08	11/01/08	
Boron	EPA 200.7-Diss	8J30114	0.020	0.050	**0.041**	1	10/30/08	10/31/08	J
Calcium	EPA 200.7-Diss	8J30114	0.050	0.10	ND	1	10/30/08	10/31/08	
Iron	EPA 200.7-Diss	8J30114	0.015	0.040	ND	1	10/30/08	11/04/08	
Lithium	EPA 200.7-Diss	8J30114	0.030	0.050	ND	1	10/30/08	10/31/08	
Magnesium	EPA 200.7-Diss	8J30114	0.012	0.020	ND	1	10/30/08	10/31/08	
Phosphorus	EPA 200.7-Diss	8J30114	0.020	0.040	ND	1	10/30/08	10/31/08	
Potassium	EPA 200.7-Diss	8J30114	0.37	0.50	ND	1	10/30/08	11/07/08	
Sodium	EPA 200.7-Diss	8J30114	0.19	0.50	**0.22**	1	10/30/08	11/02/08	J
Strontium	EPA 200.7-Diss	8J30114	0.0050	0.020	ND	1	10/30/08	10/31/08	
Tin	EPA 200.7-Diss	8J30114	0.012	0.10	ND	1	10/30/08	10/31/08	
Titanium	EPA 200.7-Diss	8J30114	0.0020	0.0050	ND	1	10/30/08	10/31/08	

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Attention: Penny Bassett

Project ID: BP Yerington, NV, 136259
Report Number: IRJ2815

Sampled: 10/22/08
Received: 10/29/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ2815-01 (OU4-LEP-01-MW - Water)									
Reporting Units: mg/l as Silica									
Silicon	EPA 200.7-Diss	8J30114	0.28	1.1	**17**	10	10/30/08	10/31/08	
Sample ID: IRJ2815-02 (OU4-LEP-03A-MW - Water)									
Reporting Units: mg/l as Silica									
Silicon	EPA 200.7-Diss	8J30114	0.14	0.55	**20**	5	10/30/08	10/31/08	
Sample ID: IRJ2815-03 (OU4-LEP-05A-MW - Water)									
Reporting Units: mg/l as Silica									
Silicon	EPA 200.7-Diss	8J30114	0.056	0.22	**6.4**	2	10/30/08	10/31/08	
Sample ID: IRJ2815-04 (OU4-FEP-13A-MW - Water)									
Reporting Units: mg/l as Silica									
Silicon	EPA 200.7-Diss	8J30114	0.056	0.22	**51**	2	10/30/08	10/31/08	
Sample ID: IRJ2815-05 (OU4-UEP-07A-MW - Water)									
Reporting Units: mg/l as Silica									
Silicon	EPA 200.7-Diss	8J30114	0.14	0.55	**27**	5	10/30/08	10/31/08	
Sample ID: IRJ2815-06 (OU4-UEP-08A-MW - Water)									
Reporting Units: mg/l as Silica									
Silicon	EPA 200.7-Diss	8J30114	0.028	0.11	**25**	1	10/30/08	10/31/08	
Sample ID: IRJ2815-07 (OU4-UEP-10A-MW - Water)									
Reporting Units: mg/l as Silica									
Silicon	EPA 200.7-Diss	8J30114	0.028	0.11	**57**	1	10/30/08	10/31/08	
Sample ID: IRJ2815-08 (Filter Blank - Water)									
Reporting Units: mg/l as Silica									
Silicon	EPA 200.7-Diss	8J30114	0.028	0.11	ND	1	10/30/08	10/31/08	
Sample ID: IRJ2815-01 (OU4-LEP-01-MW - Water)									
Reporting Units: ug/l									
Uranium	EPA 200.8-Diss	8J30116	25	50	**2600**	50	10/30/08	11/01/08	MHA
Antimony	EPA 200.8-Diss	8J30116	10	100	ND	50	10/30/08	11/01/08	RL1
Arsenic	EPA 200.8-Diss	8J30116	35	50	ND	50	10/30/08	11/01/08	RL1
Barium	EPA 200.8-Diss	8J30116	20	50	**40**	50	10/30/08	11/01/08	RL1, J
Beryllium	EPA 200.8-Diss	8J30116	10	25	**160**	50	10/30/08	11/01/08	
Cadmium	EPA 200.8-Diss	8J30116	5.5	50	**66**	50	10/30/08	11/01/08	
Chromium	EPA 200.8-Diss	8J30116	35	100	**160**	50	10/30/08	11/01/08	
Cobalt	EPA 200.8-Diss	8J30116	7.5	50	**3700**	50	10/30/08	11/01/08	MHA
Copper	EPA 200.8-Diss	8J30116	380	1000	**110000**	500	10/30/08	11/01/08	M-3
Lead	EPA 200.8-Diss	8J30116	15	50	ND	50	10/30/08	11/01/08	RL1
Manganese	EPA 200.8-Diss	8J30116	380	500	**120000**	500	10/30/08	11/01/08	M-3
Molybdenum	EPA 200.8-Diss	8J30116	10	100	ND	50	10/30/08	11/01/08	RL1
Nickel	EPA 200.8-Diss	8J30116	45	100	**3200**	50	10/30/08	11/01/08	MHA

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV, 136259
Report Number: IRJ2815

Sampled: 10/22/08
Received: 10/29/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ2815-01 (OU4-LEP-01-MW - Water) - cont.									
Reporting Units: ug/l									
Selenium	EPA 200.8-Diss	8J30116	15	100	**78**	50	10/30/08	11/01/08	RL1, J
Silver	EPA 200.8-Diss	8J30116	15	50	ND	50	10/30/08	11/01/08	RL1
Thallium	EPA 200.8-Diss	8J30116	10	50	ND	50	10/30/08	11/01/08	RL1
Vanadium	EPA 200.8-Diss	8J30116	35	100	**550**	50	10/30/08	11/01/08	MHA
Zinc	EPA 200.8-Diss	8J30116	120	1000	**9400**	50	10/30/08	11/01/08	MHA
Sample ID: IRJ2815-02 (OU4-LEP-03A-MW - Water)									
Reporting Units: ug/l									
Uranium	EPA 200.8-Diss	8J30116	5.0	10	**240**	10	10/30/08	11/01/08	
Antimony	EPA 200.8-Diss	8J30116	2.0	20	ND	10	10/30/08	11/01/08	RL1
Arsenic	EPA 200.8-Diss	8J30116	7.0	10	ND	10	10/30/08	11/01/08	RL1
Barium	EPA 200.8-Diss	8J30116	4.0	10	**61**	10	10/30/08	11/01/08	
Beryllium	EPA 200.8-Diss	8J30116	2.0	5.0	**11**	10	10/30/08	11/01/08	
Cadmium	EPA 200.8-Diss	8J30116	1.1	10	**19**	10	10/30/08	11/01/08	
Chromium	EPA 200.8-Diss	8J30116	7.0	20	ND	10	10/30/08	11/01/08	RL1
Cobalt	EPA 200.8-Diss	8J30116	1.5	10	**850**	10	10/30/08	11/01/08	MHA
Copper	EPA 200.8-Diss	8J30116	7.5	20	**3900**	10	10/30/08	11/01/08	MHA
Lead	EPA 200.8-Diss	8J30116	3.0	10	ND	10	10/30/08	11/01/08	RL1
Manganese	EPA 200.8-Diss	8J30116	380	500	**55000**	500	10/30/08	11/01/08	M-3
Molybdenum	EPA 200.8-Diss	8J30116	2.0	20	ND	10	10/30/08	11/01/08	RL1
Nickel	EPA 200.8-Diss	8J30116	9.0	20	**680**	10	10/30/08	11/01/08	MHA
Selenium	EPA 200.8-Diss	8J30116	3.0	20	**19**	10	10/30/08	11/01/08	RL1, J
Silver	EPA 200.8-Diss	8J30116	3.0	10	ND	10	10/30/08	11/02/08	RL1
Thallium	EPA 200.8-Diss	8J30116	2.0	10	ND	10	10/30/08	11/01/08	RL1
Vanadium	EPA 200.8-Diss	8J30116	7.0	20	ND	10	10/30/08	11/01/08	RL1
Zinc	EPA 200.8-Diss	8J30116	25	200	**1400**	10	10/30/08	11/01/08	MHA
Sample ID: IRJ2815-03 (OU4-LEP-05A-MW - Water)									
Reporting Units: ug/l									
Uranium	EPA 200.8-Diss	8J30116	5.0	10	**140**	10	10/30/08	11/01/08	
Antimony	EPA 200.8-Diss	8J30116	2.0	20	ND	10	10/30/08	11/01/08	RL1
Arsenic	EPA 200.8-Diss	8J30116	7.0	10	ND	10	10/30/08	11/01/08	RL1
Barium	EPA 200.8-Diss	8J30116	4.0	10	**100**	10	10/30/08	11/01/08	
Beryllium	EPA 200.8-Diss	8J30116	2.0	5.0	ND	10	10/30/08	11/01/08	RL1
Cadmium	EPA 200.8-Diss	8J30116	1.1	10	**2.7**	10	10/30/08	11/01/08	RL1, J
Chromium	EPA 200.8-Diss	8J30116	7.0	20	ND	10	10/30/08	11/01/08	RL1
Cobalt	EPA 200.8-Diss	8J30116	1.5	10	**130**	10	10/30/08	11/01/08	
Copper	EPA 200.8-Diss	8J30116	7.5	20	**28**	10	10/30/08	11/01/08	
Lead	EPA 200.8-Diss	8J30116	3.0	10	ND	10	10/30/08	11/01/08	RL1
Manganese	EPA 200.8-Diss	8J30116	75	100	**16000**	100	10/30/08	11/02/08	
Molybdenum	EPA 200.8-Diss	8J30116	2.0	20	**340**	10	10/30/08	11/01/08	
Nickel	EPA 200.8-Diss	8J30116	9.0	20	**140**	10	10/30/08	11/01/08	

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Attention: Penny Bassett

Project ID: BP Yerington, NV, 136259
Report Number: IRJ2815

Sampled: 10/22/08
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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ2815-03 (OU4-LEP-05A-MW - Water) - cont.									
Reporting Units: ug/l									
Selenium	EPA 200.8-Diss	8J30116	3.0	20	**11**	10	10/30/08	11/01/08	RL1, J
Silver	EPA 200.8-Diss	8J30116	3.0	10	ND	10	10/30/08	11/02/08	RL1
Thallium	EPA 200.8-Diss	8J30116	2.0	10	ND	10	10/30/08	11/01/08	RL1
Vanadium	EPA 200.8-Diss	8J30116	7.0	20	**58**	10	10/30/08	11/01/08	
Zinc	EPA 200.8-Diss	8J30116	25	200	**110**	10	10/30/08	11/01/08	RL1, J
Sample ID: IRJ2815-04 (OU4-FEP-13A-MW - Water)									
Reporting Units: ug/l									
Uranium	EPA 200.8-Diss	8J30116	5.0	10	**870**	10	10/30/08	11/01/08	
Antimony	EPA 200.8-Diss	8J30116	2.0	20	ND	10	10/30/08	11/01/08	RL1
Arsenic	EPA 200.8-Diss	8J30116	7.0	10	**24**	10	10/30/08	11/01/08	
Barium	EPA 200.8-Diss	8J30116	4.0	10	**61**	10	10/30/08	11/01/08	
Beryllium	EPA 200.8-Diss	8J30116	2.0	5.0	**35**	10	10/30/08	11/01/08	
Cadmium	EPA 200.8-Diss	8J30116	1.1	10	**9.6**	10	10/30/08	11/01/08	RL1, J
Chromium	EPA 200.8-Diss	8J30116	7.0	20	**51**	10	10/30/08	11/01/08	
Cobalt	EPA 200.8-Diss	8J30116	1.5	10	**330**	10	10/30/08	11/01/08	
Copper	EPA 200.8-Diss	8J30116	75	200	**14000**	100	10/30/08	11/01/08	
Lead	EPA 200.8-Diss	8J30116	3.0	10	**24**	10	10/30/08	11/01/08	
Manganese	EPA 200.8-Diss	8J30116	7.5	10	**7000**	10	10/30/08	11/02/08	
Molybdenum	EPA 200.8-Diss	8J30116	2.0	20	**7.8**	10	10/30/08	11/01/08	RL1, J
Nickel	EPA 200.8-Diss	8J30116	9.0	20	**520**	10	10/30/08	11/01/08	
Selenium	EPA 200.8-Diss	8J30116	3.0	20	**46**	10	10/30/08	11/01/08	
Silver	EPA 200.8-Diss	8J30116	3.0	10	ND	10	10/30/08	11/02/08	RL1
Thallium	EPA 200.8-Diss	8J30116	2.0	10	**77**	10	10/30/08	11/01/08	
Vanadium	EPA 200.8-Diss	8J30116	7.0	20	ND	10	10/30/08	11/01/08	RL1
Zinc	EPA 200.8-Diss	8J30116	25	200	**1000**	10	10/30/08	11/01/08	
Sample ID: IRJ2815-05 (OU4-UEP-07A-MW - Water)									
Reporting Units: ug/l									
Uranium	EPA 200.8-Diss	8J30116	5.0	10	**940**	10	10/30/08	11/01/08	
Antimony	EPA 200.8-Diss	8J30116	2.0	20	ND	10	10/30/08	11/01/08	RL1
Arsenic	EPA 200.8-Diss	8J30116	7.0	10	ND	10	10/30/08	11/01/08	RL1
Barium	EPA 200.8-Diss	8J30116	4.0	10	**41**	10	10/30/08	11/01/08	
Beryllium	EPA 200.8-Diss	8J30116	2.0	5.0	**56**	10	10/30/08	11/01/08	
Cadmium	EPA 200.8-Diss	8J30116	1.1	10	**24**	10	10/30/08	11/01/08	
Chromium	EPA 200.8-Diss	8J30116	7.0	20	ND	10	10/30/08	11/01/08	RL1
Cobalt	EPA 200.8-Diss	8J30116	1.5	10	**1100**	10	10/30/08	11/01/08	
Copper	EPA 200.8-Diss	8J30116	75	200	**15000**	100	10/30/08	11/01/08	
Lead	EPA 200.8-Diss	8J30116	3.0	10	**20**	10	10/30/08	11/01/08	
Manganese	EPA 200.8-Diss	8J30116	75	100	**46000**	100	10/30/08	11/02/08	
Molybdenum	EPA 200.8-Diss	8J30116	2.0	20	ND	10	10/30/08	11/01/08	RL1
Nickel	EPA 200.8-Diss	8J30116	9.0	20	**1000**	10	10/30/08	11/01/08	

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Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV, 136259
Report Number: IRJ2815

Sampled: 10/22/08
Received: 10/29/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ2815-05 (OU4-UEP-07A-MW - Water) - cont.									
Reporting Units: ug/l									
Selenium	EPA 200.8-Diss	8J30116	3.0	20	**24**	10	10/30/08	11/01/08	
Silver	EPA 200.8-Diss	8J30116	3.0	10	ND	10	10/30/08	11/02/08	RL1
Thallium	EPA 200.8-Diss	8J30116	2.0	10	ND	10	10/30/08	11/01/08	RL1
Vanadium	EPA 200.8-Diss	8J30116	7.0	20	ND	10	10/30/08	11/01/08	RL1
Zinc	EPA 200.8-Diss	8J30116	25	200	**2600**	10	10/30/08	11/01/08	
Sample ID: IRJ2815-06 (OU4-UEP-08A-MW - Water)									
Reporting Units: ug/l									
Uranium	EPA 200.8-Diss	8J30116	5.0	10	**240**	10	10/30/08	11/01/08	
Antimony	EPA 200.8-Diss	8J30116	2.0	20	ND	10	10/30/08	11/01/08	RL1
Arsenic	EPA 200.8-Diss	8J30116	7.0	10	ND	10	10/30/08	11/01/08	RL1
Barium	EPA 200.8-Diss	8J30116	4.0	10	**36**	10	10/30/08	11/01/08	
Beryllium	EPA 200.8-Diss	8J30116	2.0	5.0	**22**	10	10/30/08	11/01/08	
Cadmium	EPA 200.8-Diss	8J30116	1.1	10	**7.2**	10	10/30/08	11/01/08	RL1, J
Chromium	EPA 200.8-Diss	8J30116	7.0	20	**9.8**	10	10/30/08	11/01/08	RL1, J
Cobalt	EPA 200.8-Diss	8J30116	1.5	10	**380**	10	10/30/08	11/01/08	
Copper	EPA 200.8-Diss	8J30116	75	200	**9700**	100	10/30/08	11/02/08	
Lead	EPA 200.8-Diss	8J30116	3.0	10	**7.0**	10	10/30/08	11/01/08	RL1, J
Manganese	EPA 200.8-Diss	8J30116	75	100	**10000**	100	10/30/08	11/02/08	
Molybdenum	EPA 200.8-Diss	8J30116	2.0	20	ND	10	10/30/08	11/01/08	RL1
Nickel	EPA 200.8-Diss	8J30116	9.0	20	**350**	10	10/30/08	11/01/08	
Selenium	EPA 200.8-Diss	8J30116	3.0	20	**9.9**	10	10/30/08	11/01/08	RL1, J
Silver	EPA 200.8-Diss	8J30116	3.0	10	ND	10	10/30/08	11/02/08	RL1
Thallium	EPA 200.8-Diss	8J30116	2.0	10	**4.7**	10	10/30/08	11/01/08	RL1, J
Vanadium	EPA 200.8-Diss	8J30116	7.0	20	ND	10	10/30/08	11/01/08	RL1
Zinc	EPA 200.8-Diss	8J30116	25	200	**1000**	10	10/30/08	11/01/08	
Sample ID: IRJ2815-07 (OU4-UEP-10A-MW - Water)									
Reporting Units: ug/l									
Uranium	EPA 200.8-Diss	8J30116	0.50	1.0	**81**	1	10/30/08	11/01/08	
Antimony	EPA 200.8-Diss	8J30116	0.20	2.0	**0.61**	1	10/30/08	11/01/08	J
Arsenic	EPA 200.8-Diss	8J30116	0.70	1.0	**140**	1	10/30/08	11/01/08	
Barium	EPA 200.8-Diss	8J30116	0.40	1.0	**15**	1	10/30/08	11/01/08	
Beryllium	EPA 200.8-Diss	8J30116	0.20	0.50	ND	1	10/30/08	11/01/08	
Cadmium	EPA 200.8-Diss	8J30116	0.11	1.0	**0.36**	1	10/30/08	11/01/08	J
Chromium	EPA 200.8-Diss	8J30116	0.70	2.0	**1.2**	1	10/30/08	11/01/08	J
Cobalt	EPA 200.8-Diss	8J30116	0.15	1.0	**0.99**	1	10/30/08	11/01/08	J
Copper	EPA 200.8-Diss	8J30116	0.75	2.0	**14**	1	10/30/08	11/01/08	
Lead	EPA 200.8-Diss	8J30116	0.30	1.0	ND	1	10/30/08	11/05/08	C, RL1
Manganese	EPA 200.8-Diss	8J30116	0.75	1.0	**60**	1	10/30/08	11/02/08	
Molybdenum	EPA 200.8-Diss	8J30116	0.20	2.0	**170**	1	10/30/08	11/01/08	
Nickel	EPA 200.8-Diss	8J30116	0.90	2.0	**2.6**	1	10/30/08	11/01/08	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ2815-07 (OU4-UEP-10A-MW - Water) - cont.									
Reporting Units: ug/l									
Selenium	EPA 200.8-Diss	8J30116	0.30	2.0	**85**	1	10/30/08	11/01/08	
Silver	EPA 200.8-Diss	8J30116	0.30	1.0	ND	1	10/30/08	11/02/08	
Thallium	EPA 200.8-Diss	8J30116	0.20	1.0	ND	1	10/30/08	11/05/08	
Vanadium	EPA 200.8-Diss	8J30116	0.70	2.0	**140**	1	10/30/08	11/01/08	
Zinc	EPA 200.8-Diss	8J30116	2.5	20	**15**	1	10/30/08	11/01/08	J
Sample ID: IRJ2815-08 (Filter Blank - Water)									
Reporting Units: ug/l									
Uranium	EPA 200.8-Diss	8J30116	0.50	1.0	ND	1	10/30/08	11/01/08	
Antimony	EPA 200.8-Diss	8J30116	0.20	2.0	ND	1	10/30/08	11/01/08	
Arsenic	EPA 200.8-Diss	8J30116	0.70	1.0	ND	1	10/30/08	11/01/08	
Barium	EPA 200.8-Diss	8J30116	0.40	1.0	**1.5**	1	10/30/08	11/01/08	
Beryllium	EPA 200.8-Diss	8J30116	0.20	0.50	ND	1	10/30/08	11/01/08	
Cadmium	EPA 200.8-Diss	8J30116	0.11	1.0	ND	1	10/30/08	11/01/08	
Chromium	EPA 200.8-Diss	8J30116	0.70	2.0	ND	1	10/30/08	11/01/08	
Cobalt	EPA 200.8-Diss	8J30116	0.15	1.0	ND	1	10/30/08	11/01/08	
Copper	EPA 200.8-Diss	8J30116	0.75	2.0	ND	1	10/30/08	11/01/08	
Lead	EPA 200.8-Diss	8J30116	0.30	1.0	ND	1	10/30/08	11/01/08	
Manganese	EPA 200.8-Diss	8J30116	0.75	1.0	ND	1	10/30/08	11/02/08	
Molybdenum	EPA 200.8-Diss	8J30116	0.20	2.0	**0.29**	1	10/30/08	11/01/08	J
Nickel	EPA 200.8-Diss	8J30116	0.90	2.0	ND	1	10/30/08	11/01/08	
Selenium	EPA 200.8-Diss	8J30116	0.30	2.0	ND	1	10/30/08	11/01/08	
Silver	EPA 200.8-Diss	8J30116	0.30	1.0	ND	1	10/30/08	11/02/08	
Thallium	EPA 200.8-Diss	8J30116	0.20	1.0	ND	1	10/30/08	11/01/08	
Vanadium	EPA 200.8-Diss	8J30116	0.70	2.0	ND	1	10/30/08	11/01/08	
Zinc	EPA 200.8-Diss	8J30116	2.5	20	**26**	1	10/30/08	11/01/08	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J30114 Extracted: 10/30/08											
Blank Analyzed: 10/31/2008-11/03/2008 (8J30114-BLK1)											
Aluminum	ND	0.050	0.040	mg/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	ND	0.10	0.050	mg/l							
Iron	ND	0.040	0.015	mg/l							
Lithium	ND	0.050	0.030	mg/l							
Magnesium	ND	0.020	0.012	mg/l							
Phosphorus	ND	0.040	0.020	mg/l							
Potassium	ND	0.50	0.37	mg/l							
Silicon	ND	0.11	0.028	mg/l as Silica							
Sodium	ND	0.50	0.19	mg/l							
Strontium	ND	0.020	0.0050	mg/l							
Tin	ND	0.10	0.012	mg/l							
Titanium	ND	0.0050	0.0020	mg/l							
LCS Analyzed: 10/31/2008-11/03/2008 (8J30114-BS1)											
Aluminum	0.481	0.050	0.040	mg/l	0.500		96	85-115			
Boron	0.466	0.050	0.020	mg/l	0.500		93	85-115			
Calcium	2.47	0.10	0.050	mg/l	2.50		99	85-115			
Iron	0.519	0.040	0.015	mg/l	0.500		104	85-115			
Lithium	0.508	0.050	0.030	mg/l	0.500		102	85-115			
Magnesium	2.42	0.020	0.012	mg/l	2.50		97	85-115			
Phosphorus	0.495	0.040	0.020	mg/l	0.500		99	85-115			
Potassium	4.99	0.50	0.37	mg/l	5.00		100	85-115			
Silicon	4.74	0.11	0.028	mg/l as Silica	5.35		89	85-115			
Sodium	4.95	0.50	0.19	mg/l	5.00		99	85-115			
Strontium	0.515	0.020	0.0050	mg/l	0.500		103	85-115			
Tin	0.498	0.10	0.012	mg/l	0.500		100	85-115			
Titanium	0.490	0.0050	0.0020	mg/l	0.500		98	85-115			

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THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV, 136259

Report Number: IRJ2815

Sampled: 10/22/08
Received: 10/29/08

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J30114 Extracted: 10/30/08											
Matrix Spike Analyzed: 10/31/2008-11/03/2008 (8J30114-MS1)						**Source: IRJ1930-01**					
Aluminum	0.506	0.050	0.040	mg/l	0.500	ND	101	70-130			
Boron	0.460	0.050	0.020	mg/l	0.500	ND	92	70-130			
Calcium	2.65	0.10	0.050	mg/l	2.50	ND	106	70-130			
Iron	0.534	0.040	0.015	mg/l	0.500	ND	107	70-130			
Lithium	0.526	0.050	0.030	mg/l	0.500	ND	105	70-130			
Magnesium	2.57	0.020	0.012	mg/l	2.50	ND	103	70-130			
Phosphorus	0.497	0.040	0.020	mg/l	0.500	ND	99	70-130			
Potassium	5.01	0.50	0.37	mg/l	5.00	ND	100	70-130			
Silicon	4.98	0.11	0.028	mg/l as Silica	5.35	ND	93	70-130			
Sodium	4.72	0.50	0.19	mg/l	5.00	ND	94	70-130			
Strontium	0.536	0.020	0.0050	mg/l	0.500	ND	107	70-130			
Tin	0.508	0.10	0.012	mg/l	0.500	ND	102	70-130			
Titanium	0.509	0.0050	0.0020	mg/l	0.500	ND	102	70-130			
Matrix Spike Dup Analyzed: 10/31/2008-11/03/2008 (8J30114-MSD1)						**Source: IRJ1930-01**					
Aluminum	0.498	0.050	0.040	mg/l	0.500	ND	100	70-130	1	20	
Boron	0.456	0.050	0.020	mg/l	0.500	ND	91	70-130	1	20	
Calcium	2.57	0.10	0.050	mg/l	2.50	ND	103	70-130	3	20	
Iron	0.531	0.040	0.015	mg/l	0.500	ND	106	70-130	1	20	
Lithium	0.529	0.050	0.030	mg/l	0.500	ND	106	70-130	1	20	
Magnesium	2.50	0.020	0.012	mg/l	2.50	ND	100	70-130	3	20	
Phosphorus	0.495	0.040	0.020	mg/l	0.500	ND	99	70-130	1	20	
Potassium	5.11	0.50	0.37	mg/l	5.00	ND	102	70-130	2	20	
Silicon	4.90	0.11	0.028	mg/l as Silica	5.35	ND	92	70-130	2	20	
Sodium	4.77	0.50	0.19	mg/l	5.00	ND	95	70-130	1	20	
Strontium	0.537	0.020	0.0050	mg/l	0.500	ND	107	70-130	0	20	
Tin	0.508	0.10	0.012	mg/l	0.500	ND	102	70-130	0	20	
Titanium	0.498	0.0050	0.0020	mg/l	0.500	ND	100	70-130	2	20	

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Patty Mata
Project Manager

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Attention: Penny Bassett

Project ID: BP Yerington, NV, 136259
Report Number: IRJ2815

Sampled: 10/22/08
Received: 10/29/08

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J30116 Extracted: 10/30/08											
Blank Analyzed: 11/01/2008 (8J30116-BLK1)											
Uranium	ND	1.0	0.50	ug/l							
Antimony	ND	2.0	0.20	ug/l							
Arsenic	ND	1.0	0.70	ug/l							
Barium	ND	1.0	0.40	ug/l							
Beryllium	ND	0.50	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Chromium	ND	2.0	0.70	ug/l							
Cobalt	ND	1.0	0.15	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Manganese	ND	1.0	0.75	ug/l							
Molybdenum	ND	2.0	0.20	ug/l							
Nickel	ND	2.0	0.90	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
Vanadium	ND	2.0	0.70	ug/l							
Zinc	ND	20	2.5	ug/l							
LCS Analyzed: 11/01/2008 (8J30116-BS1)											
Uranium	84.8	1.0	0.50	ug/l	80.0		106	85-115			
Antimony	81.1	2.0	0.20	ug/l	80.0		101	85-115			
Arsenic	81.2	1.0	0.70	ug/l	80.0		102	85-115			
Barium	81.7	1.0	0.40	ug/l	80.0		102	85-115			
Beryllium	83.0	0.50	0.20	ug/l	80.0		104	85-115			
Cadmium	79.5	1.0	0.11	ug/l	80.0		99	85-115			
Chromium	85.9	2.0	0.70	ug/l	80.0		107	85-115			
Cobalt	84.4	1.0	0.15	ug/l	80.0		105	85-115			
Copper	81.8	2.0	0.75	ug/l	80.0		102	85-115			*M-3*
Lead	84.7	1.0	0.30	ug/l	80.0		106	85-115			
Manganese	85.2	1.0	0.75	ug/l	80.0		107	85-115			*M-3*
Molybdenum	81.2	2.0	0.20	ug/l	80.0		101	85-115			
Nickel	82.8	2.0	0.90	ug/l	80.0		104	85-115			
Selenium	78.5	2.0	0.30	ug/l	80.0		98	85-115			
Silver	81.4	1.0	0.30	ug/l	80.0		102	85-115			
Thallium	82.2	1.0	0.20	ug/l	80.0		103	85-115			

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Project ID: BP Yerington, NV, 136259
Report Number: IRJ2815

Sampled: 10/22/08
Received: 10/29/08

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J30116 Extracted: 10/30/08											
LCS Analyzed: 11/01/2008 (8J30116-BS1)											
Vanadium	83.5	2.0	0.70	ug/l	80.0		104	85-115			
Zinc	76.9	20	2.5	ug/l	80.0		96	85-115			
Matrix Spike Analyzed: 11/01/2008 (8J30116-MS1)						**Source: IRJ2815-01**					
Uranium	2690	50	25	ug/l	80.0	2600	124	70-130			*MHA*
Antimony	83.5	100	10	ug/l	80.0	ND	104	70-130			*J*
Arsenic	86.6	50	35	ug/l	80.0	ND	108	70-130			
Barium	114	50	20	ug/l	80.0	39.8	92	70-130			
Beryllium	247	25	10	ug/l	80.0	161	108	70-130			
Cadmium	142	50	5.5	ug/l	80.0	65.7	96	70-130			
Chromium	233	100	35	ug/l	80.0	164	86	70-130			
Cobalt	3700	50	7.5	ug/l	80.0	3680	28	70-130			*MHA*
Lead	95.3	50	15	ug/l	80.0	ND	119	70-130			
Molybdenum	74.7	100	10	ug/l	80.0	ND	93	70-130			*J*
Nickel	3160	100	45	ug/l	80.0	3160	1	70-130			*MHA*
Selenium	156	100	15	ug/l	80.0	78.1	97	70-130			
Silver	79.6	50	15	ug/l	80.0	ND	100	70-130			
Thallium	83.8	50	10	ug/l	80.0	ND	105	70-130			
Vanadium	624	100	35	ug/l	80.0	554	88	70-130			*MHA*
Zinc	9410	1000	120	ug/l	80.0	9420	-10	70-130			*MHA*
Matrix Spike Analyzed: 11/01/2008-11/02/2008 (8J30116-MS2)						**Source: IRJ2815-02**					
Uranium	318	10	5.0	ug/l	80.0	245	92	70-130			
Antimony	85.0	20	2.0	ug/l	80.0	ND	106	70-130			
Arsenic	88.7	10	7.0	ug/l	80.0	ND	111	70-130			
Barium	143	10	4.0	ug/l	80.0	60.6	103	70-130			
Beryllium	84.0	5.0	2.0	ug/l	80.0	11.3	91	70-130			
Cadmium	97.1	10	1.1	ug/l	80.0	19.1	97	70-130			
Chromium	80.8	20	7.0	ug/l	80.0	ND	101	70-130			
Cobalt	997	10	1.5	ug/l	80.0	850	184	70-130			*MHA*
Copper	4120	20	7.5	ug/l	80.0	3940	231	70-130			*MHA*
Lead	82.3	10	3.0	ug/l	80.0	ND	103	70-130			
Molybdenum	88.2	20	2.0	ug/l	80.0	ND	110	70-130			
Nickel	791	20	9.0	ug/l	80.0	684	134	70-130			*MHA*
Selenium	104	20	3.0	ug/l	80.0	19.1	106	70-130			
Silver	77.3	10	3.0	ug/l	80.0	ND	97	70-130			

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Project Manager

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV, 136259

Report Number: IRJ2815

Sampled: 10/22/08
Received: 10/29/08

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J30116 Extracted: 10/30/08											
Matrix Spike Analyzed: 11/01/2008-11/02/2008 (8J30116-MS2)						**Source: IRJ2815-02**					
Thallium	79.2	10	2.0	ug/l	80.0	ND	99	70-130			
Vanadium	86.5	20	7.0	ug/l	80.0	ND	108	70-130			
Zinc	1460	200	25	ug/l	80.0	1370	120	70-130			*MHA*
Matrix Spike Dup Analyzed: 11/01/2008 (8J30116-MSD1)						**Source: IRJ2815-01**					
Uranium	2730	50	25	ug/l	80.0	2600	163	70-130	1	20	*MHA*
Antimony	81.7	100	10	ug/l	80.0	ND	102	70-130	2	20	*J*
Arsenic	89.3	50	35	ug/l	80.0	ND	112	70-130	3	20	
Barium	116	50	20	ug/l	80.0	39.8	95	70-130	2	20	
Beryllium	244	25	10	ug/l	80.0	161	104	70-130	1	20	
Cadmium	144	50	5.5	ug/l	80.0	65.7	98	70-130	1	20	
Chromium	236	100	35	ug/l	80.0	164	89	70-130	1	20	
Cobalt	3730	50	7.5	ug/l	80.0	3680	65	70-130	1	20	*MHA*
Lead	93.7	50	15	ug/l	80.0	ND	117	70-130	2	20	
Molybdenum	74.6	100	10	ug/l	80.0	ND	93	70-130	0	20	*J*
Nickel	3140	100	45	ug/l	80.0	3160	-26	70-130	1	20	*MHA*
Selenium	152	100	15	ug/l	80.0	78.1	93	70-130	2	20	
Silver	80.3	50	15	ug/l	80.0	ND	100	70-130	1	20	
Thallium	83.6	50	10	ug/l	80.0	ND	105	70-130	0	20	
Vanadium	616	100	35	ug/l	80.0	554	77	70-130	1	20	*MHA*
Zinc	9410	1000	120	ug/l	80.0	9420	-13	70-130	0	20	*MHA*
Batch: 8J31103 Extracted: 10/31/08											
Blank Analyzed: 10/31/2008 (8J31103-BLK1)											
Mercury	ND	0.00020	0.00010	mg/l							

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
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Attention: Penny Bassett

Project ID: BP Yerington, NV, 136259

Report Number: IRJ2815

Sampled: 10/22/08
Received: 10/29/08

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J31103 Extracted: 10/31/08											
LCS Analyzed: 10/31/2008 (8J31103-BS1)											
Mercury	0.00824	0.00020	0.00010	mg/l	0.00800		103	85-115			
Matrix Spike Analyzed: 10/31/2008 (8J31103-MS1)						**Source: IRJ2815-01**					
Mercury	0.00659	0.00020	0.00010	mg/l	0.00800	0.000916	71	70-130			
Matrix Spike Dup Analyzed: 10/31/2008 (8J31103-MSD1)						**Source: IRJ2815-01**					
Mercury	0.00645	0.00020	0.00010	mg/l	0.00800	0.000916	69	70-130	2	20	*M2*

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3264 Goni Rd, Ste 153		Sampled: 10/22/08
Carson City, NV 89706	Report Number: IRJ2815	Received: 10/29/08
Attention: Penny Bassett		

DATA QUALIFIERS AND DEFINITIONS

C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M-3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
RL1	Reporting limit raised due to sample matrix effects.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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3264 Goni Rd, Ste 153		Sampled: 10/22/08
Carson City, NV 89706	Report Number: IRJ2815	Received: 10/29/08
Attention: Penny Bassett		

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	Nevada
EPA 200.7-Diss	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 245.1-Diss	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

IRVINE Water Geochemical

COC # YER 2045E-1

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Test America-Irvine	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
Address:	17461 Derian Avenue, Suite 100	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Irvine, CA 92614	Site Lat/Long:	NA		Carson City, NV 89706
Lab PM:	Patty Mata	California Global ID No	NA	Consultant/Contractor Project No.:	136259
Tele/Fax:	949-261-1022 (x213)	Enfos Project No.:	001KF-0193	Consultant/Contractor PM:	Penny Bassett
BP/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
Address:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL 2
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
Tele/Fax:	661-287-3855	Cost Element:	05	Invoice to:	Atlantic Richfield Co

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air		Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol		Requested Analysis: Alkalinity (2320B)	Chloride, flouride, nitrate, nitrite, sulfate (300.0)	PH, TDS (2540C)	Dissolved Metals (200.7/200.8)	TOC (5310B)						FILTERED	Sample Point Lat/Long and Comments
								IRJ 2815																			
1	OU4-LEP-01A-MW		10/22/08		X				1			X							X							Y	
2	OU4-LEP-03A-MW		10/22/08		X				1			X							X							Y	
3	OU4-LEP-05A-MW		10/22/08		X				1			X							X							Y	
4	OU4-FEP-13A-MW		10/22/08		X				1			X							X							Y	
5	OU4-UEP-07A-MW		10/22/08		X				1			X							X							Y	
6	OU4-UEP-08A-MW		10/22/08		X				1			X							X							Y	
7	OU4-UEP-10A-MW		10/22/08		X				1			X							X							Y	MS
8	Filter Blank		10/22/08		X				1			X							X							Y	10/30/08
9																											05:30
10																											

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	SEM LAB	SEM LAB	10-23	0700	R Bassinger	10-23	0700
Sampler's Company:	Brown & Caldwell	R Bassinger	10-27	1500		10/28	1505
Shipment Date:	10-27-08						
Shipment Method:	Fed Ex Air						
Shipment Tracking No:	4131417 10001212						

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 2T °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

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LABORATORY REPORT

Prepared For: Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project: BP Yerington, NV, 134557

Sampled: 11/04/08
Received: 11/20/08
Issued: 12/11/08 08:53

NELAP #01108CA Nevada #CA-72

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 22°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IRK2203-01	OU4-FEP-15A-MW	Water
IRK2203-02	FILTER BLANK-02	Water

Reviewed By:

TestAmerica Irvine

Patty Mata
Project Manager

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Attention: Penny Bassett

Project ID: BP Yerington, NV, 134557

Report Number: IRK2203

Sampled: 11/04/08
Received: 11/20/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2203-01 (OU4-FEP-15A-MW - Water)									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	8K25119	0.20	0.25	**410**	5	11/25/08	11/28/08	MHA
Mercury	EPA 245.1-Diss	8L02109	0.00010	0.00020	ND	1	12/02/08	12/02/08	
Boron	EPA 200.7-Diss	8K25119	0.10	0.25	**0.52**	5	11/25/08	11/26/08	
Calcium	EPA 200.7-Diss	8K25119	0.25	0.50	**500**	5	11/25/08	11/26/08	MHA
Iron	EPA 200.7-Diss	8K25119	0.075	0.20	**590**	5	11/25/08	11/26/08	MHA
Lithium	EPA 200.7-Diss	8K25119	0.15	0.25	**0.49**	5	11/25/08	11/26/08	
Magnesium	EPA 200.7-Diss	8K25119	0.060	0.10	**420**	5	11/25/08	11/26/08	MHA
Phosphorus	EPA 200.7-Diss	8K25119	0.10	0.20	**8.4**	5	11/25/08	11/26/08	
Potassium	EPA 200.7-Diss	8K25119	1.8	2.5	ND	5	11/25/08	11/26/08	RL1
Sodium	EPA 200.7-Diss	8K25119	0.95	2.5	**26**	5	11/25/08	11/26/08	MHA
Strontium	EPA 200.7-Diss	8K25119	0.025	0.10	**1.0**	5	11/25/08	11/26/08	
Tin	EPA 200.7-Diss	8K25119	0.060	0.50	ND	5	11/25/08	11/26/08	M2, RL1
Titanium	EPA 200.7-Diss	8K25119	0.010	0.025	ND	5	11/25/08	11/26/08	RL1
Sample ID: IRK2203-02 (FILTER BLANK-02 - Water)									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	8K25119	0.040	0.050	ND	1	11/25/08	11/28/08	
Mercury	EPA 245.1-Diss	8L02109	0.00010	0.00020	ND	1	12/02/08	12/02/08	
Boron	EPA 200.7-Diss	8K25119	0.020	0.050	ND	1	11/25/08	11/26/08	
Calcium	EPA 200.7-Diss	8K25119	0.050	0.10	**0.056**	1	11/25/08	11/26/08	J
Iron	EPA 200.7-Diss	8K25119	0.015	0.040	**0.016**	1	11/25/08	11/26/08	J
Lithium	EPA 200.7-Diss	8K25119	0.030	0.050	ND	1	11/25/08	11/26/08	
Magnesium	EPA 200.7-Diss	8K25119	0.012	0.020	**0.021**	1	11/25/08	11/26/08	
Phosphorus	EPA 200.7-Diss	8K25119	0.020	0.040	ND	1	11/25/08	11/26/08	
Potassium	EPA 200.7-Diss	8K25119	0.37	0.50	ND	1	11/25/08	11/26/08	
Sodium	EPA 200.7-Diss	8K25119	0.19	0.50	**0.28**	1	11/25/08	11/26/08	J
Strontium	EPA 200.7-Diss	8K25119	0.0050	0.020	ND	1	11/25/08	11/26/08	
Tin	EPA 200.7-Diss	8K25119	0.012	0.10	ND	1	11/25/08	11/26/08	
Titanium	EPA 200.7-Diss	8K25119	0.0020	0.0050	ND	1	11/25/08	11/26/08	

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV, 134557
Report Number: IRK2203

Sampled: 11/04/08
Received: 11/20/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2203-01 (OU4-FEP-15A-MW - Water)									
Reporting Units: mg/l as Silica									
Silicon	EPA 200.7-Diss	8K25119	0.14	0.55	**36**	5	11/25/08	11/26/08	MHA
Sample ID: IRK2203-02 (FILTER BLANK-02 - Water)									
Reporting Units: mg/l as Silica									
Silicon	EPA 200.7-Diss	8K25119	0.028	0.11	**0.11**	1	11/25/08	11/26/08	
Sample ID: IRK2203-01 (OU4-FEP-15A-MW - Water)									
Reporting Units: ug/l									
Uranium	EPA 200.8-Diss	8K25121	25	50	**950**	50	11/25/08	12/01/08	
Antimony	EPA 200.8-Diss	8K25121	10	100	**10**	50	11/25/08	12/01/08	RL1, J
Arsenic	EPA 200.8-Diss	8K25121	35	50	ND	50	11/25/08	12/01/08	RL1
Barium	EPA 200.8-Diss	8K25121	20	50	**27**	50	11/25/08	12/01/08	RL1, J
Beryllium	EPA 200.8-Diss	8K25121	10	25	**66**	50	11/25/08	12/01/08	
Cadmium	EPA 200.8-Diss	8K25121	5.5	50	**14**	50	11/25/08	12/01/08	RL1, J
Chromium	EPA 200.8-Diss	8K25121	35	100	**150**	50	11/25/08	12/01/08	
Cobalt	EPA 200.8-Diss	8K25121	7.5	50	**1700**	50	11/25/08	12/01/08	
Copper	EPA 200.8-Diss	8K25121	38	100	**4300**	50	11/25/08	12/01/08	
Lead	EPA 200.8-Diss	8K25121	15	50	ND	50	11/25/08	12/01/08	RL1
Manganese	EPA 200.8-Diss	8K25121	38	50	**30000**	50	11/25/08	12/01/08	
Molybdenum	EPA 200.8-Diss	8K25121	10	100	**14**	50	11/25/08	12/01/08	RL1, J
Nickel	EPA 200.8-Diss	8K25121	45	100	**1900**	50	11/25/08	12/01/08	
Selenium	EPA 200.8-Diss	8K25121	15	100	**18**	50	11/25/08	12/01/08	RL1, J
Silver	EPA 200.8-Diss	8K25121	15	50	ND	50	11/25/08	12/01/08	RL1
Thallium	EPA 200.8-Diss	8K25121	10	50	**12**	50	11/25/08	12/01/08	RL1, J
Vanadium	EPA 200.8-Diss	8K25121	35	100	**100**	50	11/25/08	12/01/08	
Zinc	EPA 200.8-Diss	8K25121	120	1000	**3100**	50	11/25/08	12/01/08	
Sample ID: IRK2203-02 (FILTER BLANK-02 - Water)									
Reporting Units: ug/l									
Uranium	EPA 200.8-Diss	8K25121	0.50	1.0	ND	1	11/25/08	12/01/08	
Antimony	EPA 200.8-Diss	8K25121	0.20	2.0	ND	1	11/25/08	12/01/08	
Arsenic	EPA 200.8-Diss	8K25121	0.70	1.0	ND	1	11/25/08	12/01/08	
Barium	EPA 200.8-Diss	8K25121	0.40	1.0	**1.8**	1	11/25/08	12/01/08	
Beryllium	EPA 200.8-Diss	8K25121	0.20	0.50	ND	1	11/25/08	12/01/08	
Cadmium	EPA 200.8-Diss	8K25121	0.11	1.0	ND	1	11/25/08	12/01/08	
Chromium	EPA 200.8-Diss	8K25121	0.70	2.0	ND	1	11/25/08	12/01/08	
Cobalt	EPA 200.8-Diss	8K25121	0.15	1.0	ND	1	11/25/08	12/01/08	
Copper	EPA 200.8-Diss	8K25121	0.75	2.0	ND	1	11/25/08	12/01/08	
Lead	EPA 200.8-Diss	8K25121	0.30	1.0	ND	1	11/25/08	12/01/08	
Manganese	EPA 200.8-Diss	8K25121	0.75	1.0	ND	1	11/25/08	12/01/08	
Molybdenum	EPA 200.8-Diss	8K25121	0.20	2.0	ND	1	11/25/08	12/01/08	
Nickel	EPA 200.8-Diss	8K25121	0.90	2.0	ND	1	11/25/08	12/01/08	
Selenium	EPA 200.8-Diss	8K25121	0.30	2.0	ND	1	11/25/08	12/01/08	

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Attention: Penny Bassett

Project ID: BP Yerington, NV, 134557
Report Number: IRK2203

Sampled: 11/04/08
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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2203-02 (FILTER BLANK-02 - Water) - cont.									
Reporting Units: ug/l									
Silver	EPA 200.8-Diss	8K25121	0.30	1.0	ND	1	11/25/08	12/01/08	
Thallium	EPA 200.8-Diss	8K25121	0.20	1.0	ND	1	11/25/08	12/01/08	
Vanadium	EPA 200.8-Diss	8K25121	0.70	2.0	ND	1	11/25/08	12/01/08	
Zinc	EPA 200.8-Diss	8K25121	2.5	20	**8.9**	1	11/25/08	12/01/08	J

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8K25119 Extracted: 11/25/08											
Blank Analyzed: 11/26/2008-11/28/2008 (8K25119-BLK1)											
Aluminum	ND	0.050	0.040	mg/l							
Boron	0.0208	0.050	0.020	mg/l							*J*
Calcium	ND	0.10	0.050	mg/l							
Iron	ND	0.040	0.015	mg/l							
Lithium	ND	0.050	0.030	mg/l							
Magnesium	ND	0.020	0.012	mg/l							
Phosphorus	ND	0.040	0.020	mg/l							
Potassium	ND	0.50	0.37	mg/l							
Silicon	0.0690	0.11	0.028	mg/l as Silica							*J*
Sodium	ND	0.50	0.19	mg/l							
Strontium	ND	0.020	0.0050	mg/l							
Tin	ND	0.10	0.012	mg/l							
Titanium	ND	0.0050	0.0020	mg/l							
LCS Analyzed: 11/26/2008-11/28/2008 (8K25119-BS1)											
Aluminum	0.467	0.050	0.040	mg/l	0.500		93	85-115			
Boron	0.478	0.050	0.020	mg/l	0.500		96	85-115			
Calcium	2.35	0.10	0.050	mg/l	2.50		94	85-115			
Iron	0.481	0.040	0.015	mg/l	0.500		96	85-115			
Lithium	0.456	0.050	0.030	mg/l	0.500		91	85-115			
Magnesium	2.44	0.020	0.012	mg/l	2.50		98	85-115			
Phosphorus	0.473	0.040	0.020	mg/l	0.500		95	85-115			
Potassium	4.59	0.50	0.37	mg/l	5.00		92	85-115			
Silicon	4.65	0.11	0.028	mg/l as Silica	5.35		87	85-115			
Sodium	4.55	0.50	0.19	mg/l	5.00		91	85-115			
Strontium	0.469	0.020	0.0050	mg/l	0.500		94	85-115			
Tin	0.471	0.10	0.012	mg/l	0.500		94	85-115			
Titanium	0.481	0.0050	0.0020	mg/l	0.500		96	85-115			

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Project ID: BP Yerington, NV, 134557

Report Number: IRK2203

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Received: 11/20/08

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8K25119 Extracted: 11/25/08											
Matrix Spike Analyzed: 11/26/2008-11/28/2008 (8K25119-MS1)						**Source: IRK2203-01**					
Aluminum	411	0.25	0.20	mg/l	0.500	406	1020	70-130			*MHA*
Boron	1.03	0.25	0.10	mg/l	0.500	0.521	102	70-130			
Calcium	503	0.50	0.25	mg/l	2.50	496	313	70-130			*MHA*
Iron	597	0.20	0.075	mg/l	0.500	591	1180	70-130			*MHA*
Lithium	0.976	0.25	0.15	mg/l	0.500	0.495	96	70-130			
Magnesium	429	0.10	0.060	mg/l	2.50	422	272	70-130			*MHA*
Phosphorus	8.95	0.20	0.10	mg/l	0.500	8.41	108	70-130			
Potassium	5.61	2.5	1.8	mg/l	5.00	ND	112	70-130			
Silicon	41.7	0.55	0.14	mg/l as Silica	5.35	36.4	98	70-130			*MHA*
Sodium	32.0	2.5	0.95	mg/l	5.00	26.2	115	70-130			*MHA*
Strontium	1.54	0.10	0.025	mg/l	0.500	1.01	105	70-130			
Tin	0.270	0.50	0.060	mg/l	0.500	ND	54	70-130			*M2, RL1, J*
Titanium	0.500	0.025	0.010	mg/l	0.500	ND	100	70-130			
Matrix Spike Dup Analyzed: 11/26/2008-11/28/2008 (8K25119-MSD1)						**Source: IRK2203-01**					
Aluminum	398	0.25	0.20	mg/l	0.500	406	-1470	70-130	3	20	*MHA*
Boron	1.05	0.25	0.10	mg/l	0.500	0.521	106	70-130	2	20	
Calcium	494	0.50	0.25	mg/l	2.50	496	-69	70-130	2	20	*MHA*
Iron	586	0.20	0.075	mg/l	0.500	591	-1030	70-130	2	20	*MHA*
Lithium	0.964	0.25	0.15	mg/l	0.500	0.495	94	70-130	1	20	
Magnesium	429	0.10	0.060	mg/l	2.50	422	285	70-130	0	20	*MHA*
Phosphorus	8.90	0.20	0.10	mg/l	0.500	8.41	98	70-130	1	20	
Potassium	5.31	2.5	1.8	mg/l	5.00	ND	106	70-130	5	20	
Silicon	41.5	0.55	0.14	mg/l as Silica	5.35	36.4	96	70-130	0	20	*MHA*
Sodium	31.0	2.5	0.95	mg/l	5.00	26.2	95	70-130	3	20	*MHA*
Strontium	1.50	0.10	0.025	mg/l	0.500	1.01	98	70-130	2	20	
Tin	0.271	0.50	0.060	mg/l	0.500	ND	54	70-130	1	20	*M2, RL1, J*
Titanium	0.503	0.025	0.010	mg/l	0.500	ND	101	70-130	1	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8K25121 Extracted: 11/25/08											
Blank Analyzed: 12/01/2008 (8K25121-BLK1)											
Uranium	ND	1.0	0.50	ug/l							
Antimony	ND	2.0	0.20	ug/l							
Arsenic	ND	1.0	0.70	ug/l							
Barium	0.614	1.0	0.40	ug/l							*J*
Beryllium	ND	0.50	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Chromium	0.722	2.0	0.70	ug/l							*J*
Cobalt	ND	1.0	0.15	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Manganese	ND	1.0	0.75	ug/l							
Molybdenum	ND	2.0	0.20	ug/l							
Nickel	ND	2.0	0.90	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
Vanadium	ND	2.0	0.70	ug/l							
Zinc	ND	20	2.5	ug/l							
LCS Analyzed: 12/01/2008 (8K25121-BS1)											
Uranium	80.5	1.0	0.50	ug/l	80.0		101	85-115			
Antimony	79.8	2.0	0.20	ug/l	80.0		100	85-115			
Arsenic	81.5	1.0	0.70	ug/l	80.0		102	85-115			
Barium	81.7	1.0	0.40	ug/l	80.0		102	85-115			
Beryllium	69.3	0.50	0.20	ug/l	80.0		87	85-115			
Cadmium	79.3	1.0	0.11	ug/l	80.0		99	85-115			
Chromium	82.1	2.0	0.70	ug/l	80.0		103	85-115			
Cobalt	83.8	1.0	0.15	ug/l	80.0		105	85-115			
Copper	81.5	2.0	0.75	ug/l	80.0		102	85-115			
Lead	77.2	1.0	0.30	ug/l	80.0		97	85-115			
Manganese	81.8	1.0	0.75	ug/l	80.0		102	85-115			
Molybdenum	81.6	2.0	0.20	ug/l	80.0		102	85-115			
Nickel	88.9	2.0	0.90	ug/l	80.0		111	85-115			
Selenium	80.1	2.0	0.30	ug/l	80.0		100	85-115			
Silver	81.6	1.0	0.30	ug/l	80.0		102	85-115			
Thallium	78.4	1.0	0.20	ug/l	80.0		98	85-115			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8K25121 Extracted: 11/25/08											
LCS Analyzed: 12/01/2008 (8K25121-BS1)											
Vanadium	87.9	2.0	0.70	ug/l	80.0		110	85-115			
Zinc	76.2	20	2.5	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 12/01/2008 (8K25121-MS1)						**Source: IRK2350-06**					
Uranium	86.9	1.0	0.50	ug/l	80.0	6.03	101	70-130			
Antimony	82.4	2.0	0.20	ug/l	80.0	0.224	103	70-130			
Arsenic	81.8	1.0	0.70	ug/l	80.0	ND	102	70-130			
Barium	186	1.0	0.40	ug/l	80.0	105	102	70-130			
Beryllium	76.7	0.50	0.20	ug/l	80.0	ND	96	70-130			
Cadmium	79.6	1.0	0.11	ug/l	80.0	ND	99	70-130			
Chromium	142	2.0	0.70	ug/l	80.0	38.1	130	70-130			
Cobalt	75.4	1.0	0.15	ug/l	80.0	ND	94	70-130			
Copper	76.6	2.0	0.75	ug/l	80.0	ND	96	70-130			
Lead	71.7	1.0	0.30	ug/l	80.0	ND	90	70-130			
Manganese	87.7	1.0	0.75	ug/l	80.0	ND	110	70-130			
Molybdenum	93.7	2.0	0.20	ug/l	80.0	9.84	105	70-130			
Nickel	87.5	2.0	0.90	ug/l	80.0	ND	109	70-130			
Selenium	79.9	2.0	0.30	ug/l	80.0	0.744	99	70-130			
Silver	79.2	1.0	0.30	ug/l	80.0	ND	99	70-130			
Thallium	69.4	1.0	0.20	ug/l	80.0	0.234	87	70-130			
Vanadium	115	2.0	0.70	ug/l	80.0	10.2	131	70-130			*M1*
Zinc	72.0	20	2.5	ug/l	80.0	ND	90	70-130			
Matrix Spike Dup Analyzed: 12/01/2008 (8K25121-MSD1)						**Source: IRK2350-06**					
Uranium	88.4	1.0	0.50	ug/l	80.0	6.03	103	70-130	2	20	
Antimony	82.8	2.0	0.20	ug/l	80.0	0.224	103	70-130	1	20	
Arsenic	80.6	1.0	0.70	ug/l	80.0	ND	101	70-130	1	20	
Barium	188	1.0	0.40	ug/l	80.0	105	104	70-130	1	20	
Beryllium	82.2	0.50	0.20	ug/l	80.0	ND	103	70-130	7	20	
Cadmium	79.7	1.0	0.11	ug/l	80.0	ND	100	70-130	0	20	
Chromium	143	2.0	0.70	ug/l	80.0	38.1	131	70-130	0	20	*M1*
Cobalt	75.4	1.0	0.15	ug/l	80.0	ND	94	70-130	0	20	
Copper	76.3	2.0	0.75	ug/l	80.0	ND	95	70-130	1	20	
Lead	71.8	1.0	0.30	ug/l	80.0	ND	90	70-130	0	20	
Manganese	88.6	1.0	0.75	ug/l	80.0	ND	111	70-130	1	20	
Molybdenum	93.5	2.0	0.20	ug/l	80.0	9.84	105	70-130	0	20	

TestAmerica Irvine

Patty Mata
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV, 134557

Report Number: IRK2203

Sampled: 11/04/08
Received: 11/20/08

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8K25121 Extracted: 11/25/08											
Matrix Spike Dup Analyzed: 12/01/2008 (8K25121-MSD1)						**Source: IRK2350-06**					
Nickel	86.7	2.0	0.90	ug/l	80.0	ND	108	70-130	1	20	
Selenium	77.8	2.0	0.30	ug/l	80.0	0.744	96	70-130	3	20	
Silver	79.2	1.0	0.30	ug/l	80.0	ND	99	70-130	0	20	
Thallium	69.8	1.0	0.20	ug/l	80.0	0.234	87	70-130	1	20	
Vanadium	111	2.0	0.70	ug/l	80.0	10.2	126	70-130	4	20	
Zinc	71.2	20	2.5	ug/l	80.0	ND	89	70-130	1	20	
Batch: 8L02109 Extracted: 12/02/08											
Blank Analyzed: 12/02/2008 (8L02109-BLK1)											
Mercury	ND	0.00020	0.00010	mg/l							
LCS Analyzed: 12/02/2008 (8L02109-BS1)											
Mercury	0.00832	0.00020	0.00010	mg/l	0.00800		104	85-115			
Matrix Spike Analyzed: 12/02/2008 (8L02109-MS1)						**Source: IRK2203-01**					
Mercury	0.00763	0.00020	0.00010	mg/l	0.00800	ND	95	70-130			
Matrix Spike Dup Analyzed: 12/02/2008 (8L02109-MSD1)						**Source: IRK2203-01**					
Mercury	0.00774	0.00020	0.00010	mg/l	0.00800	ND	97	70-130	1	20	

TestAmerica Irvine

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Brown and Caldwell - NV	Project ID: BP Yerington, NV, 134557	
3264 Goni Rd, Ste 153		Sampled: 11/04/08
Carson City, NV 89706	Report Number: IRK2203	Received: 11/20/08
Attention: Penny Bassett		

DATA QUALIFIERS AND DEFINITIONS

J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
RL1	Reporting limit raised due to sample matrix effects.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Patty Mata
Project Manager

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV, 134557

Report Number: IRK2203

Sampled: 11/04/08
Received: 11/20/08

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	Nevada
EPA 200.7-Diss	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 245.1-Diss	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Patty Mata
Project Manager

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Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

IRVINE Water Geochemical — COC # YER 2045E-3

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Test America-Irvine	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
Address:	Derian Avenue, Suite	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Irvine, CA 92614	Site Lat/Long:	NA		Carson City, NV 89706
Lab PM:	Patty Mata	California Global ID No	NA	Consultant/Contractor Project No.:	136259
Tele/Fax:	949-261-1022 (x213)	Enfos Project No.:	001KF-0193	Consultant/Contractor PM:	Penny Bassett
BP/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
Address:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL 2
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
Tele/Fax:	661-287-3855	Cost Element:	05	Invoice to:	Atlantic Richfield Co

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air		Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol		Requested Analysis: Alkalinity (2320B)	Chloride, flouride, nitrate, nitrite, sulfate (300.0)	PH, TDS (2540C)	Dissolved Metals (200.7/200.8)	TOC (5310B)					FILTERED	Sample Point Lat/Long and Comments
								IR12203																		
1	OU4-FEP-15A-MW		11/4/08		X				1			X							X						Y	
2	FILTER BLANK -02		11/4/08		X				1			X							X						Y	
3																										
4																										MS-
5																										
6																										11/21/08
7																										
8																										09:40
9																										
10																										

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	SEM INC.						
Sampler's Company:	Brown & Caldwell	SEM INC.	11/14/08	1330	Royanne Barringer B & C RBarringer	11/14/08	1330
Shipment Date:	11/17/08	Royanne Barringer RBarringer	11/17/08				
Shipment Method:	~~Fed Ex Air~~ Fed ex Ground						
Shipment Tracking No:	9612619 4131417 1000 1274					11/20/08	1530

Special Instructions:

Custody Seals In Place: Yes / No (No) | Temp Blank: Yes / No (No) | Cooler Temp on Receipt: 8.7 °F/C | Trip Blank: Yes / No (No) | MS/MSD Sample Submitted: Yes / No (No)

BP COC Rev. 5 10/11/2006

0776

Analytical Data Package Prepared For

Brown and Caldwell

Yerington Mine Site 134557

Radiochemical Analysis By

TestAmerica

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: TALR

Data Package Contains 36 *Pages*

Report No.: 40297

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
38720		OU4-UEP-01A-MW	J8J290246-5	K1VMD1AD	9K1VMD10	8311432
		OU4-UEP-01A-MW	J8J290246-5	K1VMD2AA	9K1VMD20	8311508
		OU4-UEP-01A-MW	J8J290246-5	K1VMD1AC	9K1VMD10	8311510
		OU4-UEP-01A-MW	J8J290246-5	K1VMD2AE	9K1VMD20	8323529
		OU4-UEP-01A-MW	J8J290246-5	K1VMD2AF	9K1VMD20	8323538
		OU4-UEP-03A-MW	J8J290246-6	K1VMF1AD	9K1VMF10	8311432
		OU4-UEP-03A-MW	J8J290246-6	K1VMF1AA	9K1VMF10	8311508
		OU4-UEP-03A-MW	J8J290246-6	K1VMF1AC	9K1VMF10	8311510
		OU4-UEP-03A-MW	J8J290246-6	K1VMF2AE	9K1VMF20	8323529
		OU4-UEP-03A-MW	J8J290246-6	K1VMF2AF	9K1VMF20	8323538
		OU4-UEP-05A-MW	J8J290246-7	K1VMG1AD	9K1VMG10	8311432
		OU4-UEP-05A-MW	J8J290246-7	K1VMG1AA	9K1VMG10	8311508
		OU4-UEP-05A-MW	J8J290246-7	K1VMG1AC	9K1VMG10	8311510
		OU4-UEP-05A-MW	J8J290246-7	K1VMG2AE	9K1VMG20	8311512
		OU4-UEP-05A-MW	J8J290246-7	K1VMG2AF	9K1VMG20	8323538
		OU4-UEP-07A-MW	J8J290246-1	K1VL31AD	9K1VL310	8311432
		OU4-UEP-07A-MW	J8J290246-1	K1VL32AA	9K1VL320	8311508
		OU4-UEP-07A-MW	J8J290246-1	K1VL31AC	9K1VL310	8311510
		OU4-UEP-07A-MW	J8J290246-1	K1VL32AE	9K1VL320	8323529
		OU4-UEP-07A-MW	J8J290246-1	K1VL32AF	9K1VL320	8323538
		OU4-UEP-08A-MW	J8J290246-2	K1VL71AD	9K1VL710	8311432
		OU4-UEP-08A-MW	J8J290246-2	K1VL72AA	9K1VL720	8311508
		OU4-UEP-08A-MW	J8J290246-2	K1VL71AC	9K1VL710	8311510
		OU4-UEP-08A-MW	J8J290246-2	K1VL72AE	9K1VL720	8323529
		OU4-UEP-08A-MW	J8J290246-2	K1VL72AF	9K1VL720	8323538
		OU4-UEP-10A-MW	J8J290246-3	K1VMA1AD	9K1VMA10	8311432

Report No.: 40297

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
38720		OU4-UEP-10A-MW	J8J290246-3	K1VMA1AA	9K1VMA10	8311508
		OU4-UEP-10A-MW	J8J290246-3	K1VMA1AC	9K1VMA10	8311510
		OU4-UEP-10A-MW	J8J290246-3	K1VMA2AE	9K1VMA20	8311512
		OU4-UEP-10A-MW	J8J290246-3	K1VMA2AF	9K1VMA20	8323538
		OU4-UEP-13A-MW	J8J290246-4	K1VMC1AD	9K1VMC10	8311432
		OU4-UEP-13A-MW	J8J290246-4	K1VMC2AA	9K1VMC20	8311508
		OU4-UEP-13A-MW	J8J290246-4	K1VMC1AC	9K1VMC10	8311510
		OU4-UEP-13A-MW	J8J290246-4	K1VMC2AE	9K1VMC20	8323529
		OU4-UEP-13A-MW	J8J290246-4	K1VMC2AF	9K1VMC20	8323538

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

November 30, 2008

Brown & Caldwell
2701 Prospect Park Drive
Rancho Cordova, CA 95670

Attention: Penny Bassett

Date Received at Lab	:	October 29, 2008
Project Name	:	Yerington Mine Site 134557
PO Number	:	3-113
Chain-of-Custody Number	:	YER2045E-2
Sample Type	:	Seven (7) Water Samples
SDG Number	:	38720

CASE NARRATIVE

I. Introduction

On October 29, 2008, seven water samples were received at the TestAmerica Richland laboratory for radiochemical analysis. Upon receipt, the samples were assigned the TestAmerica identification numbers as described on the cover page of the Analytical Data Package report form. The samples were assigned to Lot Numbers J8J290246.

II. Sample Receipt

The samples were received in good condition, the custody seals were in tact, signed and dated. No anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical uncertainties.

The analysis requested was:

Alpha Spectroscopy
Thorium-228, -230, -232 by method RL-ALP-001 (RICH-RC-5087)*
Gas Proportional Counting
Gross Alpha by method RL-GPC-001 (RICH-RC-5014)*
Gross Beta by method RL-GPC-001 (RICH-RC-5014)*
Radium-228 by method RL-RA-001 (RICH-RC-5005)*
Total Alpha Radium (Ra-226) by method RL-RA-002 (RICH-RC-5027)*

* SOP ID's changed effective 7-01-2008. Attached is a cross reference until ID's are changed over in all areas

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Thorium-228, -230, -232:
The samples were reanalyzed due to a processing error. The reanalysis data is acceptable. Except as noted, the LCS, batch blank, matrix spike, matrix spike duplicate, samples and sample duplicate results are within acceptance limits.

Gross Alpha Analysis:
The batch was recounted since the duplicate agreement was outside acceptance limits. The recount is acceptable. Except as noted, the LCS, batch blank, matrix spike, matrix spike duplicate, samples and sample duplicate results are within acceptance limits.

Gross Beta Analysis:
The samples were analyzed with reduced aliquots based upon weight screen results; the CRDL was not met due to the reduced aliquot sizes caused by the high residue weights. Samples OU-UEP-07A-MW, OU4-UEP-08A-MW, OU4-UEP-13A-MW, OU4-UEP-01A-MW, OU4-UEP-03A-MW, OU4-UEP-05A-MW and the sample duplicate activities are greater than the IDC. The remaining samples were counted the maximum time for the method. Data will be accepted. Except as noted, the LCS, batch blank, sample, sample matrix spike and sample duplicate results are within acceptance limits.

Radium-228 Analysis:
The achieved MDA of sample OU4-UEP-01A-MW and the matrix spikes exceed the CRDL due to reduced aliquot sizes based on activity screens. Except as noted, the LCS, batch blank, matrix spike, sample and sample duplicate results are within acceptance limits.

Total Alpha Radium (Ra-226) Analysis:
Three samples were recounted after an eight day decay to verify activity. The recounts were all below the CRDL and are accepted. Except as noted, the LCS, batch blank, matrix spike, sample and sample duplicate results are within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

for Erika Jordan
Customer Service Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**TestAmerica Richland's SOP No.**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) ***u_c - Combined Uncertainty.***	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined uncertainty.* The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

Date: 30-Nov-08

TestAmerica TALR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 40297

SDG No: 38750

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
8323538 HASL 300									
OU4-FEP-15-GW-FD DUP									
	K2A0X2AH	TH-228	0.0154 +- 0.102	ND	pCi/L	58%	0.259	1.0	0.6
		TH-230	0.0601 +- 0.0907	ND	pCi/L	58%	0.18	1.0	0.4
		TH-232	0.0150 +- 0.0672	ND	pCi/L	58%	0.18	1.0	0.3
OU4-UEP-01A-MW									
	K1VMD2AF	TH-228	1.86 +- 0.627	=	pCi/L	60%	0.245	1.0	
		TH-230	1.68 +- 0.583	=	pCi/L	60%	0.237	1.0	
		TH-232	0.989 +- 0.427	=	pCi/L	60%	0.237	1.0	
OU4-UEP-03A-MW									
	K1VMF2AF	TH-228	0.00000065 +- 0.0956	ND	pCi/L	45%	0.287	1.0	
		TH-230	0.0567 +- 0.114	ND	pCi/L	45%	0.227	1.0	
		TH-232	0.00000 +- 0.0846	ND	pCi/L	45%	0.227	1.0	
OU4-UEP-05A-MW									
	K1VMG2AF	TH-228	-0.0110 +- 0.0494	ND	pCi/L	101%	0.132	1.0	
		TH-230	-0.0107 +- 0.0479	ND	pCi/L	101%	0.128	1.0	
		TH-232	0.00000 +- 0.0478	ND	pCi/L	101%	0.128	1.0	
OU4-UEP-07A-MW									
	K1VL32AF	TH-228	0.122 +- 0.168	ND	pCi/L	52%	0.293	1.0	
		TH-230	0.810 +- 0.356	=	pCi/L	52%	0.202	1.0	
		TH-232	0.219 +- 0.185	=	pCi/L	52%	0.202	1.0	
OU4-UEP-08A-MW									
	K1VL72AF	TH-228	0.407 +- 0.203	=	pCi/L	85%	0.132	1.0	
		TH-230	0.319 +- 0.180	=	pCi/L	85%	0.157	1.0	
		TH-232	0.0532 +- 0.0772	ND	pCi/L	85%	0.128	1.0	
OU4-UEP-10A-MW									
	K1VMA2AF	TH-228	0.00000 +- 0.0671	ND	pCi/L	84%	0.18	1.0	
		TH-230	0.00000 +- 0.0650	ND	pCi/L	84%	0.174	1.0	
		TH-232	0.00000 +- 0.0650	ND	pCi/L	84%	0.174	1.0	
OU4-UEP-13A-MW									
	K1VMC2AF	TH-228	0.141 +- 0.130	ND	pCi/L	96%	0.154	1.0	
		TH-230	0.124 +- 0.116	ND	pCi/L	96%	0.149	1.0	
		TH-232	0.00000 +- 0.0557	ND	pCi/L	96%	0.149	1.0	
8311432 EPA 904.0									
OU4-UEP-01A-MW									
	K1VMD1AD	RA-228	2.00 +- 1.16	ND	pCi/L	40%	2.2	1.0	
OU4-UEP-03A-MW									
	K1VMF1AD	RA-228	0.873 +- 0.345	=	pCi/L	92%	0.651	1.0	
OU4-UEP-05A-MW									

TestAmerica
rptSTLRchSaSummary2 V5.2 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

Sample Results Summary

Date: 30-Nov-08

TestAmerica TALR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 40297 **SDG No:** 38720

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
8311432	**EPA 904.0**								
	OU4-UEP-05A-MW								
	K1VMG1AD	RA-228	0.465 +- 0.320	ND	pCi/L	90%	0.667	1.0	
	OU4-UEP-07A-MW								
	K1VL31AD	RA-228	0.846 +- 0.510	ND	pCi/L	90%	1.04	1.0	
	OU4-UEP-07A-MW DUP								
	K1VL31AG	RA-228	1.24 +- 0.424	=	pCi/L	91%	0.683	1.0	1.2
	OU4-UEP-08A-MW								
	K1VL71AD	RA-228	0.411 +- 0.264	ND	pCi/L	92%	0.534	1.0	
	OU4-UEP-10A-MW								
	K1VMA1AD	RA-228	0.276 +- 0.279	ND	pCi/L	92%	0.603	1.0	
	OU4-UEP-13A-MW								
	K1VMC1AD	RA-228	0.742 +- 0.336	=	pCi/L	93%	0.632	1.0	
8311508	**EPA 903.0**								
	OU4-UEP-01A-MW								
	K1VMD2AA	TOTAL ALPHA RA	0.579 +- 0.192	=	pCi/L	98%	0.0823	1.0	
	OU4-UEP-03A-MW								
	K1VMF1AA	TOTAL ALPHA RA	0.685 +- 0.283	=	pCi/L	92%	0.223	1.0	
	OU4-UEP-05A-MW								
	K1VMG1AA	TOTAL ALPHA RA	0.108 +- 0.118	ND	pCi/L	99%	0.206	1.0	
	OU4-UEP-07A-MW								
	K1VL32AA	TOTAL ALPHA RA	0.577 +- 0.185	=	pCi/L	100%	0.0838	1.0	
	OU4-UEP-08A-MW								
	K1VL72AA	TOTAL ALPHA RA	0.306 +- 0.119	=	pCi/L	100%	0.0631	1.0	
	OU4-UEP-10A-MW								
	K1VMA1AA	TOTAL ALPHA RA	0.0506 +- 0.101	ND	pCi/L	96%	0.22	1.0	
	OU4-UEP-10A-MW DUP								
	K1VMA1AG	TOTAL ALPHA RA	0.209 +- 0.163	ND	pCi/L	95%	0.235	1.0	1.6
	OU4-UEP-13A-MW								
	K1VMC2AA	TOTAL ALPHA RA	0.543 +- 0.176	=	pCi/L	98%	0.0821	1.0	
8311510	**EPA 900.0**								
	OU4-UEP-01A-MW								
	K1VMD1AC	BETA	446.0 +- 79.3	=	pCi/L	100%	51.7	4.0	
	OU4-UEP-01A-MW DUP								
	K1VMD1AG	BETA	436.0 +- 71.5	=	pCi/L	100%	53.2	4.0	0.2
	OU4-UEP-03A-MW								
	K1VMF1AC	BETA	86.2 +- 32.2	=	pCi/L	100%	52.9	4.0	
	OU4-UEP-05A-MW								
	K1VMG1AC	BETA	47.4 +- 18.2	=	pCi/L	100%	30.4	4.0	
	OU4-UEP-07A-MW								

TestAmerica **RER2** - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

rptSTLRchSaSummary2 V5.2 A2002 = ERPIMS - Equal To, Analyte Detected

D Qual - Result is greater than 3 times 1s Total Uncertainty

Sample Results Summary

TestAmerica TALR

Ordered by Method, Batch No., Client Sample ID.

Date: 30-Nov-08

Report No. : 40297

SDG No: 38720

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
8311510 EPA 900.0									
	OU4-UEP-07A-MW								
	K1VL31AC	BETA	245.0 +- 38.5	=	pCi/L	100%	22.9	4.0	
	OU4-UEP-08A-MW								
	K1VL71AC	BETA	82.1 +- 15.8	=	pCi/L	100%	16.7	4.0	
	OU4-UEP-10A-MW								
	K1VMA1AC	BETA	19.3 +- 14.1	ND	pCi/L	100%	26.1	4.0	
	OU4-UEP-13A-MW								
	K1VMC1AC	BETA	284.0 +- 39.9	=	pCi/L	100%	14.9	4.0	
8311512 EPA 00-02									
	OU4-UEP-05A-MW								
	K1VMG2AE	ALPHA	76.5 +- 16.9	=	pCi/L	100%	1.18	3.0	
	OU4-UEP-05A-MW DUP								
	K1VMG2AG	ALPHA	71.4 +- 15.8	=	pCi/L	100%	1.05	3.0	0.4
	OU4-UEP-10A-MW								
	K1VMA2AE	ALPHA	51.8 +- 11.8	=	pCi/L	100%	1.54	3.0	
8323529 EPA 00-02									
	OU4-UEP-01A-MW								
	K1VMD2AE	ALPHA	554.0 +- 137.0	=	pCi/L	100%	25.0	3.0	
	OU4-UEP-03A-MW								
	K1VMF2AE	ALPHA	78.2 +- 17.5	=	pCi/L	100%	2.27	3.0	
	OU4-UEP-07A-MW								
	K1VL32AE	ALPHA	114.0 +- 26.1	=	pCi/L	100%	3.78	3.0	
	OU4-UEP-08A-MW								
	K1VL72AE	ALPHA	66.5 +- 14.7	=	pCi/L	100%	2.34	3.0	
	OU4-UEP-13A-MW								
	K1VMC2AE	ALPHA	194.0 +- 41.1	=	pCi/L	100%	2.42	3.0	

No. of Results: 56

TestAmerica
rptSTLRchSaSummary2 V5.2 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

QC Results Summary

Date: 30-Nov-08

TestAmerica TALR

Ordered by Method, Batch No, QC Type,.

Report No. : 40297 **SDG No.:** 38720

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
HASL 300								
8323538 BLANK QC,								
K268V1AA	TH-228	-0.00953 +- 0.0426	N	pCi/L	98%			0.114
	TH-230	0.0369 +- 0.0693	N	pCi/L	98%			0.136
	TH-232	-0.00922 +- 0.0413	N	pCi/L	98%			0.111
8323538 LCS,								
K268V1AC	TH-230	5.14 +- 1.09	=	pCi/L	90%	91%	-0.1	0.162
8323538 MATRIX SPIKE, OU4-FEP-16-GW								
K2A0N2AM	TH-230	10.6 +- 1.80	=	pCi/L	101%	91%	-0.1	0.0749
K2A0N2AL	TH-230	7.42 +- 1.35	=	pCi/L	100%	64%	-0.4	0.0954
EPA 904.0								
8311432 BLANK QC,								
K2D1C1AA	RA-228	0.586 +- 0.392	N	pCi/L	88%			0.823
8311432 LCS,								
K2D1C1AC	RA-228	4.89 +- 0.734	=	pCi/L	87%	95%	0.0	0.557
8311432 MATRIX SPIKE, OU4-UEP-01A-MW								
K1VMD1AH	RA-228	8.90 +- 2.13	=	pCi/L	92%	75%	-0.3	1.28
K1VMD1AJ	RA-228	7.67 +- 1.98	=	pCi/L	91%	64%	-0.4	1.83
EPA 903.0								
8311508 BLANK QC,								
K2EDQ1AA	TOTAL ALPHA RA	0.0112 +- 0.0806	N	pCi/L	96%			0.21
8311508 LCS,								
K2EDQ1AC	TOTAL ALPHA RA	6.20 +- 1.43	=	pCi/L	97%	97%	0.0	0.207
8311508 MATRIX SPIKE, OU4-UEP-13A-MW								
K1VMC1AH	TOTAL ALPHA RA	6.55 +- 1.63	=	pCi/L	95%	103%	0.0	0.307
K1VMC1AG	TOTAL ALPHA RA	4.20 +- 1.17	=	pCi/L	95%	63%	-0.4	0.18
EPA 900.0								
8311510 BLANK QC,								
K2EEC1AA	BETA	1.89 +- 1.02	=	pCi/L	100%			1.82
8311510 LCS,								
K2EEC1AC	BETA	25.6 +- 3.70	=	pCi/L	100%	113%	0.1	1.97
8311510 MATRIX SPIKE, OU4-UEP-03A-MW								
K1VMF1AH	BETA	1680.0 +- 331.0	=	pCi/L	100%	97%	0.0	50.4
K1VMF1AG	BETA	1690.0 +- 251.0	=	pCi/L	100%	98%	0.0	52.4
EPA 00-02								
8311512 BLANK QC,								
K2EEJ2AA	ALPHA	0.0243 +- 0.253	N	pCi/L	100%			0.836
8311512 LCS,								
K2EEJ2AC	ALPHA	19.9 +- 5.19	=	pCi/L	100%	86%	-0.1	1.12
8311512 MATRIX SPIKE, OU4-FEP-16-GW								
K2A0N2AJ	ALPHA	72.9 +- 59.9	=	pCi/L	100%	107%	0.1	1.19
K2A0N2AK	ALPHA	85.2 +- 62.1	=	pCi/L	100%	125%	0.3	1.07
EPA 00-02								

TestAmerica
rptSTLRchQcSummary V5.2 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

QC Results Summary

Date: 30-Nov-08

TestAmerica TALR

Ordered by Method, Batch No, QC Type,.

Report No. : 40297

SDG No.: 38720

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
8323529 BLANK QC,								
K267H1AA	ALPHA	0.311 +- 0.328	N	pCi/L	100%			0.585
8323529 LCS,								
K267H1AC	ALPHA	22.3 +- 4.87	=	pCi/L	100%	97%	0.0	0.495

No. of Results: 24

TestAmerica
rptSTLRchQcSummary V5.2 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

FORM I

SAMPLE RESULTS

Date: 30-Nov-08

Lab Name:	TestAmerica	**SDG:**	38720	**Collection Date:**	10/22/2008
Lot-Sample No.:	J8J290246-5	**Report No. :**	40297	**Received Date:**	10/29/2008 11:00:00 AM
Client Sample ID:	OU4-UEP-01A-MW	**COC No. :**		**Matrix:**	WATER AQ

Yerington Mine Site 134557

Ordered by Client Sample ID, Batch N

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Prima Detect
tch: 8311432	EPA 904.0			Work Order:	K1VMD1AD		Report DB ID:	9K1VMD10				
RA-228	***2.00***	ND	1.1	1.2	2.2	pCi/L	40%	*0.91*	11/24/08 01:46 p		0.4287	GPC
						0.958	1.0	*(3.5)*			L	
tch: 8311508	EPA 903.0			Work Order:	K1VMD2AA		Report DB ID:	9K1VMD20				
TOTAL ALPHA RA	***0.579***	=	0.15	0.19	0.0823	pCi/L	98%	*(7.)*	11/28/08 01:41 p		0.4286	GPC1
						0.0282	1.0	*(6.)*			L	
tch: 8311510	EPA 900.0			Work Order:	K1VMD1AC		Report DB ID:	9K1VMD10				
BETA	***446.0***	=	43.0	79.0	51.7	pCi/L	100%	*(8.6)*	11/18/08 02:29 p		0.008	GPC2
						25.0	4.0	*(11.3)*			L	
tch: 8323529	EPA 00-02			Work Order:	K1VMD2AE		Report DB ID:	9K1VMD20				
ALPHA	***554.0***	=	62.0	140.0	25.0	pCi/L	100%	*(22.2)*	11/24/08 12:01 p		0.004	GPC1
						10.2	3.0	*(8.1)*			L	
tch: 8323538	HASL 300			Work Order:	K1VMD2AF		Report DB ID:	9K1VMD20				
TH-228	***1.86***	=	0.56	0.63	0.245	pCi/L	60%	*(7.6)*	11/22/08 04:18 p		0.2	ALP1
						0.0672	1.0	*(5.9)*			L	
TH-230	***1.68***	=	0.52	0.58	0.237	pCi/L	60%	*(7.1)*	11/22/08 04:18 p		0.2	ALP1
						0.0651	1.0	*(5.8)*			L	
TH-232	***0.989***	=	0.40	0.43	0.237	pCi/L	60%	*(4.2)*	11/22/08 04:18 p		0.2	ALP1
						0.0651	1.0	*(4.6)*			L	

No. of Results: 7 **Comments:**

tAmerica
STLRchSample
2 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

FORM I

SAMPLE RESULTS

Date: 30-Nov-08

Lab Name:	TestAmerica	**SDG:**	38720	**Collection Date:**	10/22/2008
Lot-Sample No.:	J8J290246-6	**Report No. :**	40297	**Received Date:**	10/29/2008 11:00:00 AM
Client Sample ID:	OU4-UEP-03A-MW	**COC No. :**		**Matrix:**	WATER AQ

Yerington Mine Site 134557

Ordered by Client Sample ID, Batch N

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Prima Detect
atch: 8311432	EPA 904.0			Work Order:	K1VMF1AD		Report DB ID:	9K1VMF10				
RA-228	***0.873***	=	0.32	0.34	0.651	pCi/L	92%	*(1.3)*	11/24/08 01:46 p		0.9803	GPC
						0.304	1.0	*(5.1)*			L	
atch: 8311508	EPA 903.0			Work Order:	K1VMF1AA		Report DB ID:	9K1VMF10				
TOTAL ALPHA RA	***0.685***	=	0.25	0.28	0.223	pCi/L	92%	*(3.1)*	11/19/08 12:20 p		0.5007	GPC1
						0.0849	1.0	*(4.8)*			L	
atch: 8311510	EPA 900.0			Work Order:	K1VMF1AC		Report DB ID:	9K1VMF10				
BETA	***86.2***	=	30.0	32.0	52.9	pCi/L	100%	*(1.6)*	11/18/08 02:29 p		0.0079	GPC2
						25.5	4.0	*(5.3)*			L	
atch: 8323529	EPA 00-02			Work Order:	K1VMF2AE		Report DB ID:	9K1VMF20				
ALPHA	***78.2***	=	7.0	17.0	2.27	pCi/L	100%	*(34.4)*	11/24/08 12:01 p		0.05	GPC1
						0.93	3.0	*(8.9)*			L	
atch: 8323538	HASL 300			Work Order:	K1VMF2AF		Report DB ID:	9K1VMF20				
TH-228	***0.00000065***	ND	0.096	0.096	0.287	pCi/L	45%	*0.*	11/22/08 04:18 p		0.1999	ALP1
						0.0908	1.0	*0.*			L	
TH-230	***0.0567***	ND	0.11	0.11	0.227	pCi/L	45%	*0.25*	11/22/08 04:18 p		0.1999	ALP1
						0.0622	1.0	*1.*			L	
TH-232	***0.00000***	ND	0.0000	0.085	0.227	pCi/L	45%	*0.*	11/22/08 04:18 p		0.1999	ALP1
						0.0622	1.0	*0.*			L	

No. of Results: 7 **Comments:**

stAmerica
STLRchSample
2 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

FORM I

SAMPLE RESULTS

Date: 30-Nov-08

Lab Name: TestAmerica **SDG:** 38720 **Collection Date:** 10/22/2008

Lot-Sample No.: J8J290246-7 **Report No. :** 40297 **Received Date:** 10/29/2008 11:00:00 AM

Client Sample ID: OU4-UEP-05A-MW **COC No. :** **Matrix:** WATER AQ

Yerington Mine Site 134557 Ordered by Client Sample ID, Batch N

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Prima Detec
atch: 8311432	EPA 904.0			Work Order:	K1VMG1AD		Report DB ID:	9K1VMG10				
RA-228	***0.465***	ND	0.29	0.32	0.667	pCi/L	90%	*0.7*	11/24/08 01:46 p		0.9678	GPC
						0.311	1.0	*(2.9)*			L	
atch: 8311508	EPA 903.0			Work Order:	K1VMG1AA		Report DB ID:	9K1VMG10				
TOTAL ALPHA RA	***0.108***	ND	0.12	0.12	0.206	pCi/L	99%	*0.53*	11/19/08 12:20 p		0.5026	GPC
						0.0778	1.0	*(1.8)*			L	
atch: 8311510	EPA 900.0			Work Order:	K1VMG1AC		Report DB ID:	9K1VMG10				
BETA	***47.4***	=	17.0	18.0	30.4	pCi/L	100%	*(1.6)*	11/19/08 07:58 a		0.0139	GPC
						14.7	4.0	*(5.2)*			L	
atch: 8311512	EPA 00-02			Work Order:	K1VMG2AE		Report DB ID:	9K1VMG20				
ALPHA	***76.5***	=	6.2	17.0	1.18	pCi/L	100%	*(64.7)*	11/19/08 03:53 p		0.2	GPC
						0.422	3.0	*(9.1)*			L	
atch: 8323538	HASL 300			Work Order:	K1VMG2AF		Report DB ID:	9K1VMG20				
TH-228	***-0.0110***	ND	0.049	0.049	0.132	pCi/L	101%	*-0.08*	11/22/08 04:18 p		0.1999	ALP
						0.0363	1.0	*-0.45*			L	
TH-230	***-0.0107***	ND	0.048	0.048	0.128	pCi/L	101%	*-0.08*	11/22/08 04:18 p		0.1999	ALP
						0.0352	1.0	*-0.45*			L	
TH-232	***0.00000***	ND	0.0000	0.048	0.128	pCi/L	101%	*0.*	11/22/08 04:18 p		0.1999	ALP
						0.0352	1.0	*0.*			L	

No. of Results: 7 **Comments:**

stAmerica
STLRchSample
.2 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

FORM I

SAMPLE RESULTS

Date: 30-Nov-08

Lab Name:	TestAmerica	SDG:	38720	Collection Date:	10/22/2008
Lot-Sample No.:	J8J290246-1	Report No. :	40297	Received Date:	10/29/2008 11:00:00 AM
Client Sample ID:	OU4-UEP-07A-MW	COC No. :		Matrix:	WATER AQ

Yerington Mine Site 134557

Ordered by Client Sample ID, Batch No

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Prima Detect
tch: 8311432	EPA 904.0			Work Order:	K1VL31AD		Report DB ID:	9K1VL310				
RA-228	***0.846***	ND	0.49	0.51	1.04	pCi/L	90%	*0.81*	11/24/08 01:46 p		0.6449	GPC:
						0.48	1.0	*(3.3)*			L	
tch: 8311508	EPA 903.0			Work Order:	K1VL32AA		Report DB ID:	9K1VL320				
TOTAL ALPHA RA	***0.577***	=	0.14	0.18	0.0838	pCi/L	100%	*(6.9)*	11/28/08 01:41 p		0.5019	GPC1
						0.0311	1.0	*(6.2)*			L	
tch: 8311510	EPA 900.0			Work Order:	K1VL31AC		Report DB ID:	9K1VL310				
BETA	***245.0***	=	20.0	39.0	22.9	pCi/L	100%	*(10.7)*	11/18/08 02:29 p		0.0199	GPC2
						11.1	4.0	*(12.7)*			L	
tch: 8323529	EPA 00-02			Work Order:	K1VL32AE		Report DB ID:	9K1VL320				
ALPHA	***114.0***	=	11.0	26.0	3.78	pCi/L	100%	*(30.1)*	11/24/08 09:11 a		0.0299	GPC1
						1.53	3.0	*(8.7)*			L	
tch: 8323538	HASL 300			Work Order:	K1VL32AF		Report DB ID:	9K1VL320				
TH-228	***0.122***	ND	0.17	0.17	0.293	pCi/L	52%	*0.42*	11/22/08 04:18 p		0.1999	ALP1
						0.0992	1.0	*(1.5)*			L	
TH-230	***0.810***	=	0.33	0.36	0.202	pCi/L	52%	*(4.)*	11/22/08 04:18 p		0.1999	ALP1
						0.0555	1.0	*(4.6)*			L	
TH-232	***0.219***	=	0.18	0.18	0.202	pCi/L	52%	*(1.1)*	11/22/08 04:18 p		0.1999	ALP1
						0.0555	1.0	*(2.4)*			L	

No. of Results: 7 Comments:

tAmerica
STLRchSample
2 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

FORM I

SAMPLE RESULTS

Date: 30-Nov-08

Lab Name:	TestAmerica	SDG:	38720	Collection Date:	10/22/2008
Lot-Sample No.:	J8J290246-2	Report No. :	40297	Received Date:	10/29/2008 11:00:00 AM
Client Sample ID:	OU4-UEP-08A-MW	COC No. :		Matrix:	WATER AQ

Yerington Mine Site 134557

Ordered by Client Sample ID, Batch N

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Prima Detec
atch: 8311432	EPA 904.0			Work Order:	K1VL71AD		Report DB ID:	9K1VL710				
RA-228	***0.411***	ND	0.24	0.26	0.534	pCi/L	92%	*0.77*	11/24/08 01:46 p		0.9999	GPC
						0.242	1.0	*(3.1)*			L	
atch: 8311508	EPA 903.0			Work Order:	K1VL72AA		Report DB ID:	9K1VL720				
TOTAL ALPHA RA	***0.306***	=	0.10	0.12	0.0631	pCi/L	100%	*(4.8)*	11/28/08 01:41 p		0.5011	GPC
						0.0206	1.0	*(5.1)*			L	
atch: 8311510	EPA 900.0			Work Order:	K1VL71AC		Report DB ID:	9K1VL710				
BETA	***82.1***	=	12.0	16.0	16.7	pCi/L	100%	*(4.9)*	11/18/08 02:29 p		0.0258	GPC
						8.09	4.0	*(10.4)*			L	
atch: 8323529	EPA 00-02			Work Order:	K1VL72AE		Report DB ID:	9K1VL720				
ALPHA	***66.5***	=	5.8	15.0	2.34	pCi/L	100%	*(28.4)*	11/24/08 12:01 p		0.06	GPC
						1.0	3.0	*(9.)*			L	
atch: 8323538	HASL 300			Work Order:	K1VL72AF		Report DB ID:	9K1VL720				
TH-228	***0.407***	=	0.19	0.20	0.132	pCi/L	85%	*(3.1)*	11/22/08 04:18 p		0.1999	ALP
						0.0362	1.0	*(4.)*			L	
TH-230	***0.319***	=	0.17	0.18	0.157	pCi/L	85%	*(2.)*	11/22/08 04:18 p		0.1999	ALP
						0.0495	1.0	*(3.5)*			L	
TH-232	***0.0532***	ND	0.077	0.077	0.128	pCi/L	85%	*0.42*	11/22/08 04:18 p		0.1999	ALP
						0.035	1.0	*(1.4)*			L	

No. of Results: 7 Comments:

stAmerica
STLRchSample
.2 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

FORM I

SAMPLE RESULTS

Date: 30-Nov-08

Lab Name: TestAmerica **SDG:** 38720 **Collection Date:** 10/22/2008

Lot-Sample No.: J8J290246-3 **Report No. :** 40297 **Received Date:** 10/29/2008 11:00:00 AM

Client Sample ID: OU4-UEP-10A-MW **COC No. :** **Matrix:** WATER AQ

Yerington Mine Site 134557

Ordered by Client Sample ID, Batch No

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primar Detect
tch: 8311432	EPA 904.0			Work Order:	K1VMA1AD		Report DB ID:	9K1VMA10				
RA-228	***0.276***	ND	0.26	0.28	0.603	pCi/L	92%	*0.46*	11/24/08 01:46 p		1.0004	GPC4
						0.276	1.0	*(2.)*			L	
tch: 8311508	EPA 903.0			Work Order:	K1VMA1AA		Report DB ID:	9K1VMA10				
TOTAL ALPHA RA	***0.0506***	ND	0.10	0.10	0.22	pCi/L	96%	*0.23*	11/19/08 10:26 a		0.5009	GPC1
						0.0836	1.0	*(1.)*			L	
tch: 8311510	EPA 900.0			Work Order:	K1VMA1AC		Report DB ID:	9K1VMA10				
BETA	***19.3***	ND	14.0	14.0	26.1	pCi/L	100%	*0.74*	11/18/08 02:29 p		0.0159	GPC2
						12.6	4.0	*(2.8)*			L	
tch: 8311512	EPA 00-02			Work Order:	K1VMA2AE		Report DB ID:	9K1VMA20				
ALPHA	***51.8***	=	5.2	12.0	1.54	pCi/L	100%	*(33.6)*	11/19/08 03:53 p		0.2001	GPC1
						0.597	3.0	*(8.8)*			L	
tch: 8323538	HASL 300			Work Order:	K1VMA2AF		Report DB ID:	9K1VMA20				
TH-228	***0.00000***	ND	0.0000	0.067	0.18	pCi/L	84%	*0.*	11/22/08 04:18 p		0.2001	ALP1
						0.0493	1.0	*0.*			L	
TH-230	***0.00000***	ND	0.0000	0.065	0.174	pCi/L	84%	*0.*	11/22/08 04:18 p		0.2001	ALP1
						0.0478	1.0	*0.*			L	
TH-232	***0.00000***	ND	0.0000	0.065	0.174	pCi/L	84%	*0.*	11/22/08 04:18 p		0.2001	ALP1
						0.0478	1.0	*0.*			L	

No. of Results: 7 Comments:

tAmerica
STLRchSample
2 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

FORM I

SAMPLE RESULTS

Date: 30-Nov-08

Lab Name:	TestAmerica	**SDG:**	38720	**Collection Date:**	10/22/2008
Lot-Sample No.:	J8J290246-4	**Report No. :**	40297	**Received Date:**	10/29/2008 11:00:00 AM
Client Sample ID:	OU4-UEP-13A-MW	**COC No. :**		**Matrix:**	WATER AQ

Yerington Mine Site 134557

Ordered by Client Sample ID, Batch N

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Prima Detect
atch: 8311432	EPA 904.0			Work Order:	K1VMC1AD		Report DB ID:	9K1VMC10				
RA-228	***0.742***	=	0.31	0.34	0.632	pCi/L	93%	*(1.2)*	11/24/08 01:46 p		0.9383	GPC
						0.289	1.0	*(4.4)*			L	
atch: 8311508	EPA 903.0			Work Order:	K1VMC2AA		Report DB ID:	9K1VMC20				
TOTAL ALPHA RA	***0.543***	=	0.14	0.18	0.0821	pCi/L	98%	*(6.6)*	11/28/08 01:41 p		0.5028	GPC
						0.0299	1.0	*(6.2)*			L	
atch: 8311510	EPA 900.0			Work Order:	K1VMC1AC		Report DB ID:	9K1VMC10				
BETA	***284.0***	=	17.0	40.0	14.9	pCi/L	100%	*(19.1)*	11/18/08 02:29 p		0.0256	GPC
						7.17	4.0	*(14.2)*			L	
atch: 8323529	EPA 00-02			Work Order:	K1VMC2AE		Report DB ID:	9K1VMC20				
ALPHA	***194.0***	=	11.0	41.0	2.42	pCi/L	100%	*(80.1)*	11/24/08 12:01 p		0.05	GPC
						0.999	3.0	*(9.4)*			L	
atch: 8323538	HASL 300			Work Order:	K1VMC2AF		Report DB ID:	9K1VMC20				
TH-228	***0.141***	ND	0.13	0.13	0.154	pCi/L	96%	*0.92*	11/22/08 04:18 p		0.2	ALP1
						0.0423	1.0	*(2.2)*			L	
TH-230	***0.124***	ND	0.11	0.12	0.149	pCi/L	96%	*0.83*	11/22/08 04:18 p		0.2	ALP1
						0.041	1.0	*(2.2)*			L	
TH-232	***0.00000***	ND	0.0000	0.056	0.149	pCi/L	96%	*0.*	11/22/08 04:18 p		0.2	ALP1
						0.041	1.0	*0.*			L	

No. of Results: 7 **Comments:**

stAmerica
STLRchSample
.2 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

TESTAMERICA

FORM II

Date: 30-Nov-08

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	38750	**Collection Date:**	10/30/2008 8:30:00 AM
Lot-Sample No.:	J8K050335-4	**Report No. :**	40297	**Received Date:**	11/3/2008 10:30:00 AM
Client Sample ID:	OU4-FEP-15-GW-FD DUP	**COC No. :**		**Matrix:**	WATER AQ

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
tch: 8323538	HASL 300			Work Order: K2A0X2AH		Report DB ID: K2A0X2HR			Orig Sa DB ID: 9K2A0X20			
TH-228	0.0154	ND	0.10	0.10	0.259	pCi/L	58%	0.06	11/23/08 09:34 a		0.2001	ALP171
	-0.0351	ND	RER2 0.6			1.0		0.3			L	
TH-230	0.0601	ND	0.090	0.091	0.18	pCi/L	58%	0.33	11/23/08 09:34 a		0.2001	ALP171
	0.0343	ND	RER2 0.4			1.0		(1.3)			L	
TH-232	0.0150	ND	0.067	0.067	0.18	pCi/L	58%	0.08	11/23/08 09:34 a		0.2001	ALP171
	0.0	ND	RER2 0.3			1.0		0.45			L	

Alpha Spec Result Sum = 9.1E-02

No. of Results: 3 Comments:

tAmerica
STLRchDupV5.2
002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
D Qual - Result is greater than 3 times 1s Total Uncertainty

FORM II

Date: 30-Nov-08

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	38720	**Collection Date:**	10/22/2008
Lot-Sample No.:	J8J290246-5	**Report No. :**	40297	**Received Date:**	10/29/2008 11:00:00 AM
Client Sample ID:	OU4-UEP-01A-MW DUP	**COC No. :**		**Matrix:**	WATER AQ

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
atch: 8311510	EPA 900.0			Work Order: K1VMD1AG		Report DB ID: K1VMD1GR			Orig Sa DB ID: 9K1VMD10			
BETA	436.0	=	43.0	72.0	53.2	pCi/L	100%	(8.2)	11/18/08 02:29 p		0.0081	GPC27C
	446.0	=	RER2 0.2			4.0		(12.2)			L	

No. of Results: 1 Comments:

stAmerica
STLRchDupV5.2
2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected

FORM II

Date: 30-Nov-08

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	38720	Collection Date:	10/22/2008
Lot-Sample No.:	J8J290246-7	Report No. :	40297	Received Date:	10/29/2008 11:00:00 AM
Client Sample ID:	OU4-UEP-05A-MW DUP	COC No. :		Matrix:	WATER AQ

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
tch: 8311512	EPA 00-02			Work Order: K1VMG2AG		Report DB ID: K1VMG2GR			Orig Sa DB ID: 9K1VMG20			
ALPHA	71.4	=	5.9	16.0	1.05	pCi/L	100%	(68.)	11/19/08 03:53 p		0.2	GPC10C
	76.5	=	RER2 0.4			3.0		(9.1)			L	

No. of Results: 1 Comments:

tAmerica
STLRchDupV5.2
002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected

FORM II

Date: 30-Nov-08

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	38720	**Collection Date:**	10/22/2008
Lot-Sample No.:	J8J290246-1	**Report No. :**	40297	**Received Date:**	10/29/2008 11:00:00 AM
Client Sample ID:	OU4-UEP-07A-MW DUP	**COC No. :**		**Matrix:**	WATER AQ

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
tch: 8311432	EPA 904.0			Work Order: K1VL31AG		Report DB ID: K1VL31GR			Orig Sa DB ID: 9K1VL310			
RA-228	1.24	=	0.39	0.42	0.683	pCi/L	91%	(1.8)	11/24/08 01:46 p		0.6421	GPC3C
	0.846	ND	RER2 1.2			1.0		(5.8)			L	

No. of Results: 1 Comments:

stAmerica
STLRchDupV5.2
002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

FORM II

Date: 30-Nov-08

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	38720	**Collection Date:**	10/22/2008
Lot-Sample No.:	J8J290246-3	**Report No. :**	40297	**Received Date:**	10/29/2008 11:00:00 AM
Client Sample ID:	OU4-UEP-10A-MW DUP	**COC No. :**		**Matrix:**	WATER AQ

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
ıtch: 8311508	EPA 903.0			Work Order: K1VMA1AG		Report DB ID: K1VMA1GR			Orig Sa DB ID: 9K1VMA10			
TOTAL ALPHA RA	0.209	ND	0.16	0.16	0.235	pCi/L	95%	0.89	11/19/08 10:26 a		0.4692	GPC10D
	0.0506	ND	RER2 1.6			1.0		(2.6)			L	

No. of Results: 1 Comments:

ɜtAmerica
STLRchDupV5.2
:002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
D Qual - Result is greater than 3 times 1s Total Uncertainty

FORM II

BLANK RESULTS

Date: 30-Nov-08

Lab Name: TestAmerica **SDG:** 38720

Matrix: WATER **Report No. :** 40297

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
atch: 8323538	HASL 300			Work Order:	K268V1AA		Report DB ID:	K268V1AB				
TH-228	-0.00953	ND	0.043	0.043	0.114	pCi/L	98%	-0.08	11/23/08 09:34 a		0.2	ALP172
					0.0313	1.0		-0.45			L	
TH-230	0.0369	ND	0.069	0.069	0.136	pCi/L	98%	0.27	11/23/08 09:34 a		0.2	ALP172
					0.0429	1.0		(1.1)			L	
TH-232	-0.00922	ND	0.041	0.041	0.111	pCi/L	98%	-0.08	11/23/08 09:34 a		0.2	ALP172
					0.0303	1.0		-0.45			L	
atch: 8311512	EPA 00-02			Work Order:	K2EEJ2AA		Report DB ID:	K2EEJ2AB				
ALPHA	0.0243	ND	0.25	0.25	0.836	pCi/L	100%	0.03	11/19/08 03:53 p		0.2	GPC10F
					0.253	3.0		0.19			L	
atch: 8323529	EPA 00-02			Work Order:	K267H1AA		Report DB ID:	K267H1AB				
ALPHA	0.311	ND	0.32	0.33	0.585	pCi/L	100%	0.53	11/24/08 03:45 p		0.1999	GPC10A
					0.25	3.0		(1.9)			L	
atch: 8311510	EPA 900.0			Work Order:	K2EEC1AA		Report DB ID:	K2EEC1AB				
BETA	1.89	=	0.99	1.0	1.82	pCi/L	100%	(1.)	11/18/08 02:29 p		0.2	GPC32A
					0.874	4.0		(3.7)			L	
atch: 8311508	EPA 903.0			Work Order:	K2EDQ1AA		Report DB ID:	K2EDQ1AB				
TOTAL ALPHA RA	0.0112	ND	0.081	0.081	0.21	pCi/L	96%	0.05	11/19/08 02:15 p		0.5	GPC10C
					0.0799	1.0		0.28			L	
atch: 8311432	EPA 904.0			Work Order:	K2D1C1AA		Report DB ID:	K2D1C1AB				
RA-228	0.586	ND	0.38	0.39	0.823	pCi/L	88%	0.71	11/24/08 05:18 p		1.0004	GPC6B
					0.389	1.0		(3.)			L	

stAmerica
STLRchBlank
.2 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

FORM II

BLANK RESULTS

Date: 30-Nov-08

Lab Name: TestAmerica

Matrix: WATER

SDG: 38720

Report No. : 40297

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 8 Comments:

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

FORM II
LCS RESULTS

Date: 30-Nov-08

Lab Name: TestAmerica **SDG:** 38720

Matrix: WATER **Report No. :** 40297

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
tch: 8323538	HASL 300			Work Order:	K268V1AC		Report DB ID:	K268V1CS					
TH-230	5.14	=	0.75	1.1	0.162	pCi/L	90%	5.67	0.17	91%	11/23/08 09:34 a	0.2	ALP173
							Rec Limits:	70	130	-0.1		L	
tch: 8311512	EPA 00-02			Work Order:	K2EEJ2AC		Report DB ID:	K2EEJ2CS					
ALPHA	19.9	=	3.1	5.2	1.12	pCi/L	100%	23.0	0.75	86%	11/19/08 05:29 p	0.2001	GPC10E
							Rec Limits:	75	125	-0.1		L	
tch: 8323529	EPA 00-02			Work Order:	K267H1AC		Report DB ID:	K267H1CS					
ALPHA	22.3	=	1.7	4.9	0.495	pCi/L	100%	23.0	0.75	97%	11/24/08 03:45 p	0.1999	GPC10E
							Rec Limits:	75	125	0.0		L	
tch: 8311510	EPA 900.0			Work Order:	K2EEC1AC		Report DB ID:	K2EEC1CS					
BETA	25.6	=	1.9	3.7	1.97	pCi/L	100%	22.6	0.3	113%	11/18/08 02:29 p	0.1999	GPC32E
							Rec Limits:	70	130	0.1		L	
tch: 8311508	EPA 903.0			Work Order:	K2EDQ1AC		Report DB ID:	K2EDQ1CS					
TOTAL ALPHA RA	6.20	=	0.69	1.4	0.207	pCi/L	97%	6.36	0.098	97%	11/19/08 02:15 p	0.5003	GPC10D
							Rec Limits:	75	125	0.0		L	
tch: 8311432	EPA 904.0			Work Order:	K2D1C1AC		Report DB ID:	K2D1C1CS					
RA-228	4.89	=	0.49	0.73	0.557	pCi/L	87%	5.15	0.17	95%	11/24/08 05:18 p	1.0001	GPC6C
							Rec Limits:	75	125	0.0		L	

No. of Results: 6 Comments:

tAmerica
STLRchLcs
2 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.
= ERPIMS - Equal To, Analyte Detected

FORM II

MATRIX SPIKE RESULTS

Date: 30-Nov-08

Lab Name: TestAmerica **SDG:** 38720

Lot-Sample No.: J8J290246-4, OU4-UEP-13A-MW **Report No. :** 40297 **Matrix:** WATER AQ

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC | MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
tch: 8311508	Work Order:	K1VMC1AG		Report DB ID:	K1VMC1GW		Orig Sa DB ID:	9K1VMC20				
OTAL ALPHA RA	4.20	=	0.63	1.2	0.18	pCi/L	95%	62.81%	6.69	11/19/08 10:26 a	0.4748	EPA 903.0
	0.543								0.1		L	GPC10F
tch: 8311508	Work Order:	K1VMC1AH		Report DB ID:	K1VMC1HW		Orig Sa DB ID:	9K1VMC20				
OTAL ALPHA RA	6.55	=	0.75	1.6	0.307	pCi/L	95%	103.06%	6.35	11/19/08 12:20 p	0.5008	EPA 903.0
	0.543								0.098		L	GPC10A

Number of Results: 2

Comments:

tAmerica
STLRchMs V5.2
)02

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.
= ERPIMS - Equal To, Analyte Detected

FORM II

MATRIX SPIKE RESULTS

Date: 30-Nov-08

Lab Name: TestAmerica **SDG:** 38720

Lot-Sample No.: J8J290246-5, OU4-UEP-01A-MW **Report No. :** 40297 **Matrix:** WATER AQ

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
tch: 8311432	Work Order:	K1VMD1AH		Report DB ID:	K1VMD1HW		Orig Sa DB ID:	9K1VMD10				
RA-228	8.90	=	1.2	2.1	1.28	pCi/L	92%	74.69%	11.9	11/24/08 01:46 p	0.4298	EPA 904.0
	2.0								0.4		L	GPC4D
tch: 8311432	Work Order:	K1VMD1AJ		Report DB ID:	K1VMD1JW		Orig Sa DB ID:	9K1VMD10				
RA-228	7.67	=	1.2	2.0	1.83	pCi/L	91%	64.36%	11.9	11/24/08 01:46 p	0.4291	EPA 904.0
	2.0								0.4		L	GPC5A

Number of Results: 2

Comments:

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.
= ERPIMS - Equal To, Analyte Detected

FORM II

MATRIX SPIKE RESULTS

Date: 30-Nov-08

Lab Name: TestAmerica **SDG:** 38720

Lot-Sample No.: J8J290246-6, OU4-UEP-03A-MW **Report No. :** 40297 **Matrix:** WATER AQ

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
atch: 8311510	Work Order:	K1VMF1AG		Report DB ID:	K1VMF1GW		Orig Sa DB ID:	9K1VMF10				
BETA	1690.0	=	75.0	250.0	52.4	pCi/L	100%	97.68%	1730.0	11/19/08 07:58 a	0.0079	EPA 900.0
	86.2								86.0		L	GPC31A
atch: 8311510	Work Order:	K1VMF1AH		Report DB ID:	K1VMF1HW		Orig Sa DB ID:	9K1VMF10				
BETA	1680.0	=	75.0	330.0	50.4	pCi/L	100%	97.16%	1730.0	11/19/08 07:58 a	0.0079	EPA 900.0
	86.2								86.0		L	GPC31B

Number of Results: 2

Comments:

stAmerica
STLRchMs V5.2
002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.
= ERPIMS - Equal To, Analyte Detected

FORM II

MATRIX SPIKE RESULTS

Date: 30-Nov-08

Lab Name: TestAmerica **SDG:** 38750

Lot-Sample No.: J8K050335-1, OU4-FEP-16-GW **Report No. :** 40297 **Matrix:** WATER AQ

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
tch: 8311512	Work Order:	K2A0N2AJ		Report DB ID:	K2A0N2JW		Orig Sa DB ID:	9K2A0N20				
ALPHA	72.9	=	11.0	60.0	1.19	pCi/L	100%	106.99%	68.2	11/19/08 05:29 p	0.2	EPA 00-02
	160.0								2.2		L	GPC10B
tch: 8311512	Work Order:	K2A0N2AK		Report DB ID:	K2A0N2KW		Orig Sa DB ID:	9K2A0N20				
ALPHA	85.2	=	11.0	62.0	1.07	pCi/L	100%	125.01%	68.2	11/19/08 05:29 p	0.2	EPA 00-02
	160.0								2.2		L	GPC10D
tch: 8323538	Work Order:	K2A0N2AL		Report DB ID:	K2A0N2LW		Orig Sa DB ID:	9K2A0N20				
TH-230	7.42	=	0.69	1.3	0.0954	pCi/L	100%	63.78%	11.6	11/22/08 04:14 p	0.2001	HASL 300
	0.0245								0.35		L	ALP113
tch: 8323538	Work Order:	K2A0N2AM		Report DB ID:	K2A0N2MW		Orig Sa DB ID:	9K2A0N20				
TH-230	10.6	=	0.73	1.8	0.0749	pCi/L	101%	90.87%	11.6	11/22/08 04:15 p	0.2	HASL 300
	0.0245								0.35		L	ALP117

Number of Results: 4

Comments:

tAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
STLRchMs V5.2 Bias - (Result/Expected)-1 as defined by ANSI N13.30.
02 = ERPIMS - Equal To, Analyte Detected

FORM II

Date: 30-Nov-08

MATRIX SPIKE DUPLICATE RESULTS

Lab Name: TestAmerica **SDG:** 38720

Lot-Sample No.: J8J290246-4, OU4-UEP-13A-MW **Report No. :** 40297 **Matrix:** WATER AQ

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC | MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Primary Detector
tch: 8311508 EPA 903.0				Work Order: K1VMC1AG			Report DB ID: K1VMC1GW			Orig Sa DB ID: K1VMC1HW		
TOTAL ALPHA RA	4.20	=	0.63	1.2	0.18	pCi/L	95%	62.81%	6.69	11/19/08 10:26 a	0.4748	GPC10I
	6.55	***RER2***	2.3						0.1		L	
tch: 8311508 EPA 903.0				Work Order: K1VMC1AH			Report DB ID: K1VMC1HW			Orig Sa DB ID: K1VMC1GW		
TOTAL ALPHA RA	6.55	=	0.75	1.6	0.307	pCi/L	95%	103.06%	6.35	11/19/08 12:20 p	0.5008	GPC10/
	4.2	***RER2***	2.3						0.098		L	

No. of Results: 2 Comments:

tAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
STLRchMsDup2 Bias - (Result/Expected)-1 as defined by ANSI N13.30.
2 A2002 = ERPIMS - Equal To, Analyte Detected

FORM II

Date: 30-Nov-08

MATRIX SPIKE DUPLICATE RESULTS

Lab Name: TestAmerica **SDG:** 38720

Lot-Sample No.: J8J290246-5, OU4-UEP-01A-MW **Report No. :** 40297 **Matrix:** WATER AQ

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Primary Detector
atch: 8311432	EPA 904.0			Work Order: K1VMD1AH		Report DB ID: K1VMD1HW			Orig Sa DB ID: K1VMD1JW			
RA-228	8.90	=	1.2	2.1	1.28	pCi/L	92%	74.69%	11.9	11/24/08 01:46 p	0.4298	GPC4I
	7.67	***RER2***	0.8						0.4		L	
atch: 8311432	EPA 904.0			Work Order: K1VMD1AJ		Report DB ID: K1VMD1JW			Orig Sa DB ID: K1VMD1HW			
RA-228	7.67	=	1.2	2.0	1.83	pCi/L	91%	64.36%	11.9	11/24/08 01:46 p	0.4291	GPC5/
	8.9	***RER2***	0.8						0.4		L	

No. of Results: 2 **Comments:**

stAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
STLRchMsDup2 Bias - (Result/Expected)-1 as defined by ANSI N13.30.
.2 A2002 = ERPIMS - Equal To, Analyte Detected

FORM II

Date: 30-Nov-08

MATRIX SPIKE DUPLICATE RESULTS

Lab Name: TestAmerica **SDG:** 38720

Lot-Sample No.: J8J290246-6, OU4-UEP-03A-MW **Report No. :** 40297 **Matrix:** WATER AQ

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC | MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Primary Detector
tch: 8311510	EPA 900.0			Work Order: K1VMF1AG		Report DB ID: K1VMF1GW			Orig Sa DB ID: K1VMF1HW			
BETA	1690.0	=	75.0	250.0	52.4	pCi/L	100%	97.68%	1730.0	11/19/08 07:58 a	0.0079	GPC31/
	1680.0	***RER2***	0.0						86.0		L	
tch: 8311510	EPA 900.0			Work Order: K1VMF1AH		Report DB ID: K1VMF1HW			Orig Sa DB ID: K1VMF1GW			
BETA	1680.0	=	75.0	330.0	50.4	pCi/L	100%	97.16%	1730.0	11/19/08 07:58 a	0.0079	GPC31I
	1690.0	***RER2***	0.0						86.0		L	

No. of Results: 2 **Comments:**

tAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
STLRchMsDup2 Bias - (Result/Expected)-1 as defined by ANSI N13.30.
2 A2002 = ERPIMS - Equal To, Analyte Detected

FORM II

MATRIX SPIKE DUPLICATE RESULTS

Date: 30-Nov-08

Lab Name: TestAmerica **SDG:** 38750

Lot-Sample No.: J8K050335-1, OU4-FEP-16-GW **Report No. :** 40297 **Matrix:** WATER AQ

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC | MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Primary Detector
itch: 8311512	EPA 00-02			Work Order: K2A0N2AJ		Report DB ID: K2A0N2JW			Orig Sa DB ID: K2A0N2KW			
ALPHA	72.9	=	11.0	60.0	1.19	pCi/L	100%	106.99%	68.2	11/19/08 05:29 p	0.2	GPC10
	85.2	***RER2***	0.3						2.2		L	
itch: 8311512	EPA 00-02			Work Order: K2A0N2AK		Report DB ID: K2A0N2KW			Orig Sa DB ID: K2A0N2JW			
ALPHA	85.2	=	11.0	62.0	1.07	pCi/L	100%	125.01%	68.2	11/19/08 05:29 p	0.2	GPC10
	72.9	***RER2***	0.3						2.2		L	
itch: 8323538	HASL 300			Work Order: K2A0N2AL		Report DB ID: K2A0N2LW			Orig Sa DB ID: K2A0N2MW			
TH-230	7.42	=	0.69	1.3	0.0954	pCi/L	100%	63.78%	11.6	11/22/08 04:14 p	0.2001	ALP11:
	10.6	***RER2***	2.8						0.35		L	
itch: 8323538	HASL 300			Work Order: K2A0N2AM		Report DB ID: K2A0N2MW			Orig Sa DB ID: K2A0N2LW			
TH-230	10.6	=	0.73	1.8	0.0749	pCi/L	101%	90.87%	11.6	11/22/08 04:15 p	0.2	ALP11
	7.42	***RER2***	2.8						0.35		L	

No. of Results: 4 Comments:

stAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
STLRchMsDup2 Bias - (Result/Expected)-1 as defined by ANSI N13.30.
.2 A2002 = ERPIMS - Equal To, Analyte Detected

TESTAMERICA

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

SDG 38020 WA 10/29/08
J8J290246
Due 11/19/08

RICHLAND Water Geochemical

COC # **YER 2045E-2**

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

ab Name:	Test America-Richland	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
ddress:	2800 George Washington Way	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Richland, WA. 99354	Site Lat/Long:	NA		Carson City, NV 89706
ab PM:	Erika Jordan	California Global ID No.	NA	Consultant/Contractor Project No.:	136259
ele/Fax:	509-375-3131 (x160)	Enfos Project No.:	001KF-0193	Consultant/Contractor PM:	Penny Bassett
P/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
ddress:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL 2
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
ele/Fax:	661-287-3855	Cost Element:	05	Invoice to: Atlantic Richfield Co.	

ab Bottle Order No:

tem No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air		Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol		Requested Analysis: Gross Alpha/beta (900.0)	Ra-226/228 (903.0/904.0)	Th-228/230 (907.0)	U,150							FILTERED	Sample Point Lat/Long and Comments
1	OU4-UEP-07A-MW KLVL3		10/22/08		X				4			X				X	X	X	X							Y	
2	OU4-UEP-08A-MW KLVL7		10/22/08		X				3			X				X	X	X	X							Y	
3	OU4-UEP-10A-MW KLVMA		10/22/08		X				3			X				X	X	X	X							Y	
4	OU4-FEP-13A-MW KLVMC		10/22/08		X				3			X				X	X	X	X							Y	
5	OU4-UEP-01A-MW KLVMD		10/22/08		X				3			X				X	X	X	X							Y	
6	OU4-UEP-03A-MW KLVMF		10/22/08		X				3			X				X	X	X	X							Y	
7	OU4-UEP-05A-MW KLVMG		10/22/08		X				3			X				X	X	X	X							Y	
8																											
9																											
10																											

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
ampler's Name:	SEM labs-	SEM Lab	10-23	0700	R Barringer	10-23	0700
ampler's Company:	Brown & Caldwell	R Barringer	10-27	1500	[illegible]	10/27/08	11:00
hipment Date:	10-27-08						
hipment Method:	FedEx Ground						
hipment Tracking No:	4131917100001229						

pecial Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP COC Rev. 5 10/11/2006

Analytical Data Package Prepared For

Brown and Caldwell

OU4 Phase 1

Radiochemical Analysis By

TestAmerica

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: TALR

Data Package Contains 23 *Pages*

Report No.: 40536

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
38853		OU4-FEP-15A-MW	J8K210157-1	K3EVQ1AE	9K3EVQ10	8343185
		OU4-FEP-15A-MW	J8K210157-1	K3EVQ1AA	9K3EVQ10	8343190
		OU4-FEP-15A-MW	J8K210157-1	K3EVQ1AD	9K3EVQ10	8343192
		OU4-FEP-15A-MW	J8K210157-1	K3EVQ1AC	9K3EVQ10	8343193
		OU4-FEP-15A-MW	J8K210157-1	K3EVQ4AF	9K3EVQ40	8361251

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

January 8, 2009

Brown & Caldwell
2701 Prospect Park Drive
Rancho Cordova, CA 95670

Attention: Penny Bassett

Date Received at Lab	:	November 20, 2008
Project Name	:	OU4 Phase 1
Chain-of-Custody Number	:	YER 2045E-4
Sample Type	:	One (1) Water Sample
SDG Number	:	38853

CASE NARRATIVE

I. Introduction

On November 20, 2008, one water sample was received at the TestAmerica's Richland laboratory for radiochemical analysis. Upon receipt, the sample was assigned the TestAmerica identification number as described on the cover page of the Analytical Data Package report form. The sample was assigned to Lot Numbers J8K210157.

II. Sample Receipt

The sample was received in good condition, the custody seals were in tact, signed and dated.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information; analytical results and the appropriate associated statistical uncertainties.

The analysis requested was:

Alpha Spectroscopy
Thorium-228, -230, -232 by method RL-ALP-001 (RICH-RC-5087)*
Gas Proportional Counting
Gross Alpha by method RL-GPC-001 (RICH-RC-5014)*
Gross Beta by method RL-GPC-001 (RICH-RC-5014)*
Radium-228 by method RL-RA-001 (RICH-RC-5005)*
Total Alpha Radium (Ra-226) by method RL-RA-002 (RICH-RC-5027)*

* SOP ID's changed effective 7-01-2008. Attached is a cross reference until ID's are changed over in all areas

IV. Quality Control

The analytical result for each analysis performed includes a minimum of one laboratory control sample (LCS), and one reagent blank sample analysis. Any exceptions have been noted in the "Comments" section.

V. Comments

Thorium-228, -230, -232:
The tracer yields for the sample, sample duplicate and MS/MSD are slightly elevated due to matrix effects. The samples were recounted for Beta and confirm the initial count. The duplicate agreement and MS/MSD yields show the method is in control. Beta emitter interference in the matrix is suspected. The data is reported. Except as noted, the LCS, batch blank, matrix spike, matrix spike duplicate, sample and sample duplicate results are within acceptance limits.

Gross Alpha Analysis:
The original batch was recounted and then re-analyzed multiple times due matrix effects; resulting in low MS/MSD recovery yields and sample/duplicate outside agreement criteria. The LCS recovery yield was also below acceptance limits. The re-analyses were able to provide an acceptable LCS and MS recovery. The MSD is still outside acceptance and the sample/duplicate are still out of agreement. This is due to the small aliquot of 3 mL taken due to high dissolved solids. The achieved MDA of the samples, duplicate and MS/MSD exceed the CRDL due to reduced aliquot sizes based on weight screens. The sample activity exceeds the MDA and CRDL. Data is accepted. Except as noted, the LCS, batch blank, matrix spike, matrix spike duplicate, samples and sample duplicate results are within acceptance limits.

Gross Beta Analysis:
The achieved MDA of the samples, sample duplicate and the MS/MSD exceed the CRDL due to reduced aliquot sizes based on weight screens. The samples have activity exceeding the MDA and CRDL. Data is accepted. Except as noted, the LCS, batch blank, matrix spike, matrix spike duplicate, samples and sample duplicate results are within acceptance limits.

Radium-228 Analysis:
The achieved MDA of the sample, sample duplicate and MS/MSD exceed the CRDL due to reduced aliquot sizes based on activity screens. The sample activity exceeds the MDA and CRDL, therefore the data can be accepted. The matrix spike recovery yield is below acceptance criteria, however, the MSD is acceptable and all other batch QC is within acceptance. Data is accepted. Except as noted, the LCS, batch blank, matrix spike, matrix spike duplicate, samples and sample duplicate results are within acceptance limits.

Total Alpha Radium (Ra-226) Analysis:
The LCS, batch blank, matrix spike, matrix spike duplicate, samples and sample duplicate results are within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Erika Jordan
Customer Service Manager

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Asbestos	RL-ASB-001	N / A	NIOSH 7400	Fiber Counting by Phase Contrast Microscopy based on NIOSH 7400
Asbestos	RL-ASB-002	N / A	NIOSH 9002	Sample Prep and Analysis for Asbestos (bulk) by Polarized Light Microsopy based on NIOSH 9002
Alpha - Gross	ARCHIVED	RICH-RB-5035	Liquid Scintillation Anal / Packard	DETERMINATION OF GROSS ALPHA IN NASAL SMEARS BY LIQUID SCINTILLATION COUNTING
Alpha - Gross	RL-GPC-001	RICH-RC-5014	9310 / EPA SW846 900.0 / EPA 600	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN WATER BY METHOD 9310
Alpha - Gross	RL-GPC-007	RICH-RC-5020	SM 7110B EPA 680	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN SOIL, SHORELINE SOIL, FOOD AND VEGETATION
Alpha - Gross	RL-GPC-002	RICH-RC-5021	00-02 EPA 520	DETERMINATION OF GROSS ALPHA ACTIVITY IN WATER BY COPRECIPITATION
Alpha - Gross	RL-GPC-008	RICH-RC-5036	ER100 / LANL	PREPARATION OF AIR FILTERS FOR GROSS ALPHA / BETA AND COMPOSITING AIR FILTERS
Am	RL-ALP-003	RICH-RC-5072	Mod RP 725 / DOE0089T EXT Chromatography	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
Am	RL-ALP-010	RICH-RC-5080	Am03 / Pu11HASL 300 NAS-NS-3006	SEQUENTIAL SEPARATION OF PLUTONIUM AND AMERICIUM
Beta - Gross	RL-GPC-001	RICH-RC-5014	9310 / EPA SW846 900.0 / EPA 600	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN WATER BY METHOD 9310
Beta - Gross	RL-GPC-007	RICH-RC-5020	SM 7110B EPA 680	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN SOIL, SHORELINE SOIL, FOOD AND VEGETATION
Beta - Gross	RL-GPC-008	RICH-RC-5036	ER100 / LANL	PREPARATION OF AIR FILTERS FOR GROSS ALPHA / BETA AND COMPOSITING AIR FILTERS
C14	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
C14	RL-LSC-008	RICH-RC-5022	EPA C-01 / EPA 520	CARBON 14 BY DIGESTION METHOD
C14	RL-LSC-009	RICH-RC-5040	Mod C14 / EPA 680	DETERMINATION OF CARBON-14 BY BENZENE SYNTHESIS
C14	RL-LSC-010	RICH-RC-5046	EPA C-01 / EPA 520	DETERMINATION OF CARBON-14 IN GRAPHITE AND SOIL
C14	RL-LSC-011	RICH-RC-5047	Mod H-02 / EPA 520	DETERMINATION OF CARBON-14 IN WATER BY DIRECT COUNTING
Cm	RL-ALP-003	RICH-RC-5072	Mod RP 725 / DOE0089T EXT Chromatography	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
Coliform	RL-WC-001	RICH-WC-5001	9222B	DETERMINATION OF TOTAL COLIFORM: MULTIPLE TUBE FERMENTATION TECHNIQUE
Coliform	RL-WC-002	RICH-WC-5002	9131	TOTAL COLIFORMS BY MEMBRANE FILTRATION
Coliform	RL-WC-005	RICH-WC-5007	9223	TOTAL COLIFORM BY THE COLILERT METHOD
Cr6+	RL-WC-003	RICH-WC-5003	7196A, SW846	DETERMINATION OF HEXAVALENT CHROMIUM [Cr(VI)] IN WATER, SOIL, AND SIMILAR MATRICES
Cr6+	RL-WC-004	RICH-WC-5005	3060 / SW846	DETERMINATION OF HEXAVALENT CHROMIUM (CrVI) IN SOLID MATRICES WITH ALKALINE DIGESTION
Fe	RL-LSC-015	RICH-RC-5074	EXT Chromatography ModFe55 / PNL-ALO-435	SEPARATION OF IRON AND NICKEL BY EXTRACTION CHROMATOGRAPHY
Fe55	RL-LSC-016	RICH-RC-5023	R4-73-014 / EPA HASL 300	DETERMINATION OF IRON-55 AND IRON-59 IN WATER
Fe59	RL-LSC-016	RICH-RC-5023	R4-73-014 / EPA HASL 300	DETERMINATION OF IRON-55 AND IRON-59 IN WATER
Gamma	RL-GAM-001	RICH-RC-5017	901.0 / HASL 300 ASTM D3649	PREPARATION OF ALL MATRICES FOR ANALYSIS BY GAMMA SPECTROSCOPY
H3	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
H3	RL-LSC-003	RICH-RB-5034	7500-3 / SM	DETERMINATION OF TRITIUM IN URINE BY DISTILLATION
H3	RL-LSC-004	RICH-RC-5004	H3 / EPA LV539	DETERMINATION OF TRITIUM IN AIR
H3	RL-LSC-005	RICH-RC-5007	Mod '906.0 / EPA 600	SEPARATION OF TRITIUM IN WATER AND AQUEOUS COMPONENT OF WINE
H3	RL-LSC-007	RICH-RC-5024	H-3 by EE EPA LV539 / HASL 300	DETERMINATION OF LOW LEVEL TRITIUM IN WATER BY ELECTROLYTIC ENRICHMENT
H3	RL-LSC-002	RICH-RC-5037	H-3 in Water / Tissue / LV 539	DETERMINATION OF TRITIUM BY CRYOGENIC DISTILLATION

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
H3	RL-LSC-006	RICH-RC-5048	H-3 in Water/Tissue / LV 539	TRITIUM PREPARATION IN MILK SAMPLES
I129	RL-GAM-002	RICH-RC-5025	R4-73-014I/EPA ASTM D2334 (Discontinued)	DETERMINATION OF IODINE-131 AND 129 IN WATER BY SOLVENT EXTRACTION METHOD
I131	RL-GAM-002	RICH-RC-5025	R4-73-014I/EPA ASTM D2334 (Discontinued)	DETERMINATION OF IODINE-131 AND 129 IN WATER BY SOLVENT EXTRACTION METHOD
I131	ARCHIVED	RICH-RC-5049	HASL 300 (1983)	DETERMINATION OF IODINE-131 IN MILK BY BATCH ION-EXCHANGE
Metals	ARCHIVED	BHI-MT-0001	6010	ICP-AE SPECTROSCOPY, SPECTROMETRIC METHOD FOR TRACE ELEMENT ANALYSIS, METHOD 6010A FOR Bechtel
Metals	RL-MT-001	RICH-MT-0001	6010B	ICP-AES for TRACE ELEMENT ANALYSIS, METHOD 6010B
Metals	RL-MT-002	RICH-MT-0002	SW486 3050B	ACID DIGESTION FOR ICP ANALYSIS
Metals	RL-MT-003	RICH-MT-0003	NIOSH 7300	DIGESTION PREP based on METHOD NIOSH 7300
Ni	RL-LSC-015	RICH-RC-5074	EXT Chromatography ModFe55/PNL-ALO-435	SEPARATION OF IRON AND NICKEL BY EXTRACTION CHROMATOGRAPHY
Ni63	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
Ni63	RL-LSC-017	RICH-RC-5069	EXT Chromatography Mod RP300 / DOE0089T	SEPARATION OF Ni-63 BY EXTRACTION CHROMATOGRAPHY
Np	RL-ALP-013	RICH-RC-5009	NAS-NS-3060	DETERMINATION OF NEPTUNIUM-237 BY LIQUID-LIQUID EXTRACTION IN ALL MATRICES
Np	RL-ALP-006	RICH-RC-5064	EXT Chromatography	SEPARATION OF NEPTUNIUM BY EXTRACTION CHROMATOGRAPHY
P32	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
Pb	RL-ALP-011	RICH-RC-5076	EXT Chromatography	DETERMINATION OF LEAD-210 BY EXTRACTION CHROMATOGRAPHY
Po	RL-ALP-007	RICH-RB-5001	NAS-NS-3037 HASL 300	DETERMINATION OF POLONIUM-210 IN URINE
Po	RL-ALP-012	RICH-RC-5012	Po-01 / HASL 300 Mod U01 HASL 300	SEPARATION OF ISOTOPIC URANIUM AND POLONIUM-210 IN WATER, SOIL AND FILTERS
Prep - Bioassay	ARCHIVED	RICH-RB-0001		PREPARATION FOR RAPID BIOASSAY ANALYSES
Prep - Bioassay	RL-PRP-001	RICH-RB-5002	Mod Pu06 / HASL 300	PREPARATION OF URINE AND BLOOD SAMPLES
Prep - Bioassay	ARCHIVED	RICH-RB-5004	ASTM D1429-95	DETERMINATION OF SPECIFIC GRAVITY OF URINE
Prep - Bioassay	RL-RPL-002	RICH-RB-5036	Pub 6490,6601 / PNL	PREPARATION OF SYNTHETIC URINE AND FECES USING RECIPES FROM HPS N13.30 PREFORMANCE TESTING
Prep - Bioassay	RL-PRP-002	RICH-RB-5037	LA-10300-M R200 ASTM D3865	PREPARATION OF FECAL SAMPLES USING HYDROFLUORIC ACID DIGESTION
Prep - Bioassay	RL-RPL-003	RICH-RC-5028	ICRP Publication 23	PREPARATION OF SYNTHETIC URINE AND FECES
Prep - Count	RL-ALP-016	RICH-RC-5003	G-03 / HASL 300	COPRECIPITATION OF SOME ACTINIDES ON NEODYMIUM FLUORIDE FOR ALPHA-PARTICLE SPECTROMETRY
Prep - Count	RL-ALP-015	RICH-RC-5039	G-03 / HASL 300 Anal Chem 1972	ELECTRODEPOSITION OF ACTINIDES
Prep - Count	RL-ALP-014	RICH-RC-5085	Morrison & Freiser NAS-NS-3050	ANHYDROUS ETHER EXTRACTION OF URANIUM
Prep - Env	RL-KPA-001	RICH-RC-5015	ASTM / D5174-97	ENVIRONMENTAL SAMPLE PREPARATION FOR URANIUM BY LASER-INDUCED PHOSPHORESCENCE
Prep - Env	RL-PRP-004	RICH-RC-5016	Sr02 / HASL 300	PREPARATION OF ENVIRONMENTAL MATRICES
Prep - Env	RL-PRP-007	RICH-RC-5045	Mod Pu02 / HASL 300	PREPARATION OF MIXED BED RESINS AND PRE-FILTERS
Prep - Env	RL-PRP-008	RICH-RC-5068	Mod ER100 / LA10300	PREPARATION OF SOIL, VEGETATION AND AIR FILTERS BY MIXED STRONG ACID LEACHING
Prep - Resin	RL-ALP-017	RICH-RC-5018	Mod Pu11 / Mod 300	ION-EXCHANGE PREPARATION
Prep - Soil	RL-PRP-003	RICH-RC-5013	Pu02A / HASL 300	PREPARATION OF SOIL SAMPLES
Prep - Soil	RL-PRP-005	RICH-RC-5019	D5259 / ASTM SW 846/3015/3051/3052	PREPARATION AND DISSOLUTION OF SEDIMENTS AND SOIL BY MICROWAVE BOMB DIGESTION

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Prep - Soil	RL-PRP-006	RICH-RC-5032	Pu02A / HASL 300	COMPLETE DISSOLUTION BY MIXED ACIDS IN A TEFLON BEAKER
Prep - Soil	RL-PRP-009	RICH-RC-5077	Mod ER100 / LA10300	PREPARATION OF SMALL SOIL SAMPLES FOR GAMMA SPEC AND/OR RADIOCHEM ANAL BY ACID DIGESTION
Prep - Urine	RL-PRP-010	RICH-RC-5086	AnalyticaChemActa1992 RP800 / DOE00089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Prep - Water	RL-PRP-010	RICH-RC-5086	AnalyticaChemActa1992 RP800 / DOE00089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Pu	ARCHIVED	RICH-RB-5015	Pu11 / HASL 300	RAPID DETERMINATION OF PLUTONIUM IN FECES
Pu	RL-ALP-002	RICH-RC-5010	Pu11 / HASL 300	DETERMINATION OF ISOTOPIC PLUTONIUM IN ALL MATRICES
Pu	RL-ALP-010	RICH-RC-5080	Am03 HASL 300 Pu11 / HASL 300	SEQUENTIAL SEPARATION OF PLUTONIUM AND AMERICIUM
Pu	RL-ALP-001	RICH-RC-5087	AnalyticaChemActa1992 RP800 / DOE00089T	DETERMINATION OF PLUTONIUM BY EXTRACTION CHROMATOGRAPHY
Ra	RL-RA-001	RICH-RC-5005	903.1 / EPA 600	RADIUM-226 AND RADIUM-228 SEPARATION IN RADIOCHEMICAL MATRICES - ADAPTED FROM EPA 903.1 AND 904.0
Ra	RL-RA-001	RICH-RC-5005	904.0 / EPA 600	RADIUM-226 AND RADIUM-228 SEPARATION IN RADIOCHEMICAL MATRICES - ADAPTED FROM EPA 903.1 AND 904.0
Ra	RL-RA-002	RICH-RC-5027	Mod D2460/ ASTM 903.0 / EPA 600	DETERMINATION OF TOTAL RADIUM
Rn	RL-LSC-019	RICH-RC-5082	913.0 / EPA	DETERMINATION OF RADON-222 - ADAPTED FROM METHOD 913.0
S35	ARCHIVED	RICH-RB-5020	Hillebrand, Lundeell, Bright, Hoffman 1953	DETERMINATION OF SULFUR-35 IN URINE
Se79	RL-LSC-012	RICH-RC-5043	Selenium / NAS-NS-3030	RADIOCHEMICAL DETERMINATION OF SELENIUM-79
Solubility	ARCHIVED	RICH-RC-5035	Kalfward&Thomas PNL3716	DETERMINATION OF SOLUBILITY OF RADIOACTIVE PARTICLE CONSTITUENTS
Sr	RL-GPC-005	RICH-RB-5007	Mod Sr02 / HASL 300 Mod 905.0 / EPA 600	DETERMINATION OF TOTAL STRONTIUM IN URINE
Sr	RL-GPC-006	RICH-RB-5021	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	DETERMINATION OF STRONTIUM IN FECES
Sr	ARCHIVED	RICH-RB-5022	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	DETERMINATION OF TOTAL STRONTIUM IN URINE FOR RAPID ANALYSIS
Sr	ARCHIVED	RICH-RB-5031	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	RAPID DETERMINATION OF TOTAL STRONTIUM IN FECES
Sr	RL-GPC-003	RICH-RC-5006	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	STRONTIUM SEPARATION IN ENVIROMENTAL MATRICES
Sr - Yt	RL-GPC-004	RICH-RC-5071	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	YTTRIUM-90 SEPARATION FOR STRONTIUM-90 DETERMINATION IN ALL MATRICES
Tc	RL-LSC-014	RICH-RC-5065	EXT Chromatography Mod RP550 / DOE0089T	DETERMINATION OF TECHNETIUM-99 BY EXTRACTION CHROMATOGRAPHY
Tc	RL-LSC-013	RICH-RC-5078	Tc01 / HASL 300	SEPARATION OF TECHNETIUM-99 IN ALL MATRICES
Th	RL-ALP-008	RICH-RB-5006	Mod Th01 / HASL 300	SEPARATION OF THORIUM FROM URINE AND FECAL SAMPLES
Th	RL-ALP-005	RICH-RC-5084	Mod Th01 / HASL 300 Anal Chim Acta 1982	DETERMINATION OF THORIUM ISOTOPIC IN ENVIRONMENTAL MATRICES
U	RL-ALP-012	RICH-RC-5012	Po-01 / HASL 300 Mod U01 / HASL 300	SEPARATION OF ISOTOPIC URANIUM AND POLONIUM-210 IN WATER, SOIL AND FILTERS
U	RL-KPA-002	RICH-RC-5031	Mod U01 / HASL 300	SEPARATION OF TOTAL URANIUM IN WATER AND URINE
U	RL-KPA-003	RICH-RC-5058	D5174 / ASTM	DETERMINATION OF URANIUM BY PHOSPHORESCENCE ANALYSIS
U	RL-ALP-004	RICH-RC-5067	EXT Chromatography Mod RP725 / DOE0089T	SEPARATION OF URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-003	RICH-RC-5072	EXT Chrom Mod RP725 & 800 / DOE0089T	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-009	RICH-RC-5079	EXT Chromatography Mod RP725 / DOE0089T	DETERMINATION OF ISOTOPIC URANIUM IN ALL MATRICES

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**TestAmerica Richland's SOP No.**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) ***u_c - Combined Uncertainty.***	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, ***u_c the combined uncertainty.*** The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

Date: 08-Jan-09

TestAmerica TALR

Ordered by Method, Batch No., Client Sample ID.

Report No. : 40536 **SDG No:** 38853

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RER2
8343193 HASL 300									
OU4-FEP-15A-MW									
	K3EVQ1AC	TH-228	1.68 +- 0.629	=	pCi/L	116%	0.386	1.0	
		TH-230	16.2 +- 3.04	=	pCi/L	116%	0.264	1.0	
		TH-232	4.39 +- 1.11	=	pCi/L	116%	0.264	1.0	
OU4-FEP-15A-MW DUP									
	K3EVQ1AW	TH-228	1.23 +- 0.478	=	pCi/L	120%	0.274	1.0	1.1
		TH-230	15.2 +- 2.78	=	pCi/L	120%	0.214	1.0	0.5
		TH-232	4.54 +- 1.07	=	pCi/L	120%	0.214	1.0	0.2
8343185 EPA 904.0									
OU4-FEP-15A-MW									
	K3EVQ1AE	RA-228	9.85 +- 2.09	=	pCi/L	91%	2.63	1.0	
OU4-FEP-15A-MW DUP									
	K3EVQ1AH	RA-228	9.00 +- 1.90	=	pCi/L	89%	2.21	1.0	0.6
8343190 EPA 903.0									
OU4-FEP-15A-MW									
	K3EVQ1AA	TOTAL ALPHA RA	2.85 +- 0.909	=	pCi/L	92%	0.568	1.0	
OU4-FEP-15A-MW DUP									
	K3EVQ1AL	TOTAL ALPHA RA	2.55 +- 0.841	=	pCi/L	88%	0.396	1.0	0.5
8343192 EPA 900.0									
OU4-FEP-15A-MW									
	K3EVQ1AD	BETA	750.0 +- 125.0	=	pCi/L	100%	80.1	4.0	
OU4-FEP-15A-MW DUP									
	K3EVQ1AT	BETA	722.0 +- 127.0	=	pCi/L	100%	73.3	4.0	0.3
8361251 EPA 00-02									
OU4-FEP-15A-MW									
	K3EVQ4AF	ALPHA	110.0 +- 33.9	=	pCi/L	100%	12.2	3.0	
OU4-FEP-15A-MW DUP									
	K3EVQ3A2	ALPHA	496.0 +- 97.1	=	pCi/L	100%	34.1	3.0	7.5

No. of Results: 14

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RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
= ERPIMS - Equal To, Analyte Detected

QC Results Summary

Date: 08-Jan-09

TestAmerica TALR

Ordered by Method, Batch No, QC Type,.

Report No. : 40536

SDG No.: 38853

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
HASL 300								
8343193 BLANK QC,								
K388E1AA	TH-228	0.0606 +- 0.0879	N	pCi/L	94%			0.145
	TH-230	0.0463 +- 0.0699	N	pCi/L	94%			0.139
	TH-232	0.00000 +- 0.0518	N	pCi/L	94%			0.139
8343193 LCS,								
K388E1AC	TH-230	5.61 +- 1.13	=	pCi/L	101%	95%	0.0	0.209
8343193 MATRIX SPIKE, OU4-FEP-15A-MW								
K3EVQ1AX	TH-230	30.4 +- 8.29	=	pCi/L	119%	106%	0.1	0.204
K3EVQ1AV	TH-230	29.6 +- 8.24	=	pCi/L	119%	102%	0.0	0.247
EPA 904.0								
8343185 BLANK QC,								
K387V1AA	RA-228	0.0418 +- 0.293	N	pCi/L	91%			0.686
8343185 LCS,								
K387V1AC	RA-228	5.21 +- 0.821	=	pCi/L	90%	102%	0.0	0.723
8343185 MATRIX SPIKE, OU4-FEP-15A-MW								
K3EVQ1AG	RA-228	6.29 +- 3.41	=	pCi/L	90%	32%	-0.7	2.27
K3EVQ1AJ	RA-228	17.0 +- 4.43	=	pCi/L	90%	85%	-0.2	2.21
EPA 903.0								
8343190 BLANK QC,								
K38721AA	TOTAL ALPHA RA	0.0413 +- 0.0744	N	pCi/L	91%			0.152
8343190 LCS,								
K38721AC	TOTAL ALPHA RA	5.02 +- 1.21	=	pCi/L	91%	79%	-0.2	0.249
8343190 MATRIX SPIKE, OU4-FEP-15A-MW								
K3EVQ1AK	TOTAL ALPHA RA	13.4 +- 3.77	=	pCi/L	91%	109%	0.1	0.538
K3EVQ1AM	TOTAL ALPHA RA	17.5 +- 4.77	=	pCi/L	89%	94%	-0.1	0.602
EPA 900.0								
8343192 BLANK QC,								
K38771AA	BETA	-0.2300 +- 1.06	N	pCi/L	100%			2.18
8343192 LCS,								
K38771AC	BETA	25.9 +- 3.75	=	pCi/L	100%	107%	0.1	1.81
8343192 MATRIX SPIKE, OU4-FEP-15A-MW								
K3EVQ1AR	BETA	2480.0 +- 487.0	=	pCi/L	100%	96%	0.0	78.5
K3EVQ1AU	BETA	2400.0 +- 475.0	=	pCi/L	100%	94%	-0.1	74.2
EPA 00-02								
8361251 BLANK QC,								
K499L2AA	ALPHA	0.420 +- 0.285	=	pCi/L	100%			0.405
8361251 LCS,								
K499L2AC	ALPHA	37.1 +- 5.20	=	pCi/L	100%	91%	-0.1	0.631
8361251 MATRIX SPIKE, OU4-FEP-15A-MW								
K3EVQ3A1	ALPHA	1750.0 +- 278.0	=	pCi/L	100%	38%	-0.6	26.9
K3EVQ3A0	ALPHA	2730.0 +- 399.0	=	pCi/L	100%	59%	-0.4	47.9

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Bias - (Result/Expected)-1 as defined by ANSI N13.30.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

QC Results Summary

Date: 08-Jan-09

TestAmerica TALR

Ordered by Method, Batch No, QC Type,.

Report No. : 40536

SDG No.: 38853

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA

No. of Results: 22

TestAmerica Bias - (Result/Expected)-1 as defined by ANSI N13.30.

rptSTLRchQcSum
mary V5.2.1 A2002

FORM I

SAMPLE RESULTS

Date: 08-Jan-09

Lab Name:	TestAmerica	**SDG:**	38853	**Collection Date:**	11/4/2008
Lot-Sample No.:	J8K210157-1	**Report No. :**	40536	**Received Date:**	11/20/2008 10:30:00 AM
Client Sample ID:	OU4-FEP-15A-MW	**COC No. :**		**Matrix:**	WATER AQ

OU4 Phase 1

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC | MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8343185	EPA 904.0			**Work Order:**	K3EVQ1AE		**Report DB ID:**	9K3EVQ10				
RA-228	***9.85***	=	1.7	2.1	2.63	pCi/L	91%	*(3.8)*	12/12/08 01:39 p		0.2613	GPC2A
						1.2	1.0	*(9.4)*			L	
Batch: 8343190	EPA 903.0			**Work Order:**	K3EVQ1AA		**Report DB ID:**	9K3EVQ10				
TOTAL ALPHA RA	***2.85***	=	0.70	0.91	0.568	pCi/L	92%	*(5.)*	12/12/08 09:46 a		0.2609	GPC10A
						0.231	1.0	*(6.3)*			L	
Batch: 8343192	EPA 900.0			**Work Order:**	K3EVQ1AD		**Report DB ID:**	9K3EVQ10				
BETA	***750.0***	=	69.0	130.0	80.1	pCi/L	100%	*(9.4)*	12/10/08 06:26 p		0.0053	GPC28C
						38.6	4.0	*(12.)*			L	
Batch: 8343193	HASL 300			**Work Order:**	K3EVQ1AC		**Report DB ID:**	9K3EVQ10				
TH-228	***1.68***	=	0.57	0.63	0.386	pCi/L	116%	*(4.3)*	12/19/08 12:42 p		0.079	ALP113
						0.131	1.0	*(5.3)*			L	
TH-230	***16.2***	=	1.7	3.0	0.264	pCi/L	116%	*(61.6)*	12/19/08 12:42 p		0.079	ALP113
						0.0723	1.0	*(10.7)*			L	
TH-232	***4.39***	=	0.88	1.1	0.264	pCi/L	116%	*(16.7)*	12/19/08 12:42 p		0.079	ALP113
						0.0723	1.0	*(7.9)*			L	
Batch: 8361251	EPA 00-02			**Work Order:**	K3EVQ4AF		**Report DB ID:**	9K3EVQ40				
ALPHA	***110.0***	=	31.0	34.0	12.2	pCi/L	100%	*(9.)*	1/3/09 10:15 a		0.003	GPC10A
						3.18	3.0	*(6.5)*			L	

No. of Results: 7 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected

FORM II

Date: 08-Jan-09

DUPLICATE RESULTS

Lab Name: TestAmerica **SDG:** 38853 **Collection Date:** 11/4/2008

Lot-Sample No.: J8K210157-1 **Report No. :** 40536 **Received Date:** 11/20/2008 10:30:00 AM

Client Sample ID: OU4-FEP-15A-MW DUP **COC No. :** **Matrix:** WATER AQ

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8343185	EPA 904.0			**Work Order:** K3EVQ1AH		**Report DB ID:** K3EVQ1HR			**Orig Sa DB ID:** 9K3EVQ10			
RA-228	9.00	=	1.6	1.9	2.21	pCi/L	89%	(4.1)	12/12/08 01:39 p		0.2589	GPC2C
	9.85	=	**RER2 0.6**			1.0		(9.4)			L	
Batch: 8343190	EPA 903.0			**Work Order:** K3EVQ1AL		**Report DB ID:** K3EVQ1LR			**Orig Sa DB ID:** 9K3EVQ10			
TOTAL ALPHA RA	2.55	=	0.66	0.84	0.396	pCi/L	88%	(6.4)	12/12/08 09:46 a		0.2599	GPC10D
	2.85	=	**RER2 0.5**			1.0		(6.1)			L	
Batch: 8343192	EPA 900.0			**Work Order:** K3EVQ1AT		**Report DB ID:** K3EVQ1TR			**Orig Sa DB ID:** 9K3EVQ10			
BETA	722.0	=	65.0	130.0	73.3	pCi/L	100%	(9.8)	12/10/08 06:29 p		0.0053	GPC32C
	750.0	=	**RER2 0.3**			4.0		(11.4)			L	
Batch: 8343193	HASL 300			**Work Order:** K3EVQ1AW		**Report DB ID:** K3EVQ1WR			**Orig Sa DB ID:** 9K3EVQ10			
TH-228	1.23	=	0.44	0.48	0.274	pCi/L	120%	(4.5)	12/19/08 12:42 p		0.079	ALP117
	1.68	=	**RER2 1.1**			1.0		(5.1)			L	
TH-230	15.2	=	1.5	2.8	0.214	pCi/L	120%	(70.9)	12/19/08 12:42 p		0.079	ALP117
	16.2	=	**RER2 0.5**			1.0		(10.9)			L	
TH-232	4.54	=	0.81	1.1	0.214	pCi/L	120%	(21.3)	12/19/08 12:42 p		0.079	ALP117
	4.39	=	**RER2 0.2**			1.0		(8.5)			L	
									Alpha Spec Result Sum = 2.1E+01			
Batch: 8361251	EPA 00-02			**Work Order:** K3EVQ3A2		**Report DB ID:** K3EVQ4R			**Orig Sa DB ID:** 9K3EVQ40			
ALPHA	496.0	=	72.0	97.0	34.1	pCi/L	100%	(14.5)	1/3/09 06:41 a		0.003	GPC10E
	110.0	=	**RER2 7.5**			3.0		(10.2)			L	

TestAmerica
rptSTLRchDupV5.2
.1 A2002

RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected

FORM II

Date: 08-Jan-09

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	38853	Collection Date:	11/4/2008
Lot-Sample No.:	J8K210157-1	Report No. :	40536	Received Date:	11/20/2008 10:30:00 AM
Client Sample ID:	OU4-FEP-15A-MW DUP	COC No. :		Matrix:	WATER AQ

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 7 Comments:

TestAmerica RER2 - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

rptSTLRchDupV5.2 .1 A2002 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

FORM II

BLANK RESULTS

Date: 08-Jan-09

Lab Name: TestAmerica

Matrix: WATER

SDG: 38853

Report No. : 40536

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8343193	HASL 300			**Work Order:**	K388E1AA		**Report DB ID:**	K388E1AB				
TH-228	0.0606	ND	0.087	0.088	0.145	pCi/L	94%	0.42	12/19/08 12:42 p		0.2	ALP119
					0.0399	1.0		(1.4)			L	
TH-230	0.0463	ND	0.070	0.070	0.139	pCi/L	94%	0.33	12/19/08 12:42 p		0.2	ALP119
					0.0381	1.0		(1.3)			L	
TH-232	0.00000	ND	0.0000	0.052	0.139	pCi/L	94%	0.	12/19/08 12:42 p		0.2	ALP119
					0.0381	1.0		0.			L	
Batch: 8361251	EPA 00-02			**Work Order:**	K499L2AA		**Report DB ID:**	K499L2AB				
ALPHA	0.420	=	0.28	0.28	0.405	pCi/L	100%	(1.)	1/3/09 10:15 a		0.2	GPC10B
					0.161	3.0		(3.)			L	
Batch: 8343192	EPA 900.0			**Work Order:**	K38771AA		**Report DB ID:**	K38771AB				
BETA	-0.2300	ND	1.1	1.1	2.18	pCi/L	100%	-0.11	12/10/08 06:29 p		0.2	GPC32D
					1.06	4.0		-0.43			L	
Batch: 8343190	EPA 903.0			**Work Order:**	K38721AA		**Report DB ID:**	K38721AB				
TOTAL ALPHA RA	0.0413	ND	0.074	0.074	0.152	pCi/L	91%	0.27	12/12/08 09:46 a		0.5045	GPC10F
					0.0481	1.0		(1.1)			L	
Batch: 8343185	EPA 904.0			**Work Order:**	K387V1AA		**Report DB ID:**	K387V1AB				
RA-228	0.0418	ND	0.29	0.29	0.686	pCi/L	91%	0.06	12/12/08 01:40 p		1.0008	GPC3A
					0.315	1.0		0.28			L	

No. of Results: 7 **Comments:**

TestAmerica
rptSTLRchBlank
V5.2.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
= ERPIMS - Equal To, Analyte Detected
D Qual - Result is greater than 3 times 1s Total Uncertainty

FORM II

LCS RESULTS

Date: 08-Jan-09

Lab Name: TestAmerica **SDG:** 38853

Matrix: WATER **Report No. :** 40536

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 8343193	HASL 300			Work Order:	K388E1AC		Report DB ID:	K388E1CS					
TH-230	5.61	=	0.72	1.1	0.209	pCi/L	101%	5.88	0.18	95%	12/19/08 12:42 p	0.2001	ALP120
							Rec Limits:	70	130	0.0		L	
Batch: 8361251	EPA 00-02			Work Order:	K499L2AC		Report DB ID:	K499L2CS					
ALPHA	37.1	=	2.2	5.2	0.631	pCi/L	100%	40.6	1.3	91%	1/3/09 10:15 a	0.2	GPC10C
							Rec Limits:	75	125	-0.1		L	
Batch: 8343192	EPA 900.0			Work Order:	K38771AC		Report DB ID:	K38771CS					
BETA	25.9	=	1.8	3.8	1.81	pCi/L	100%	24.1	0.31	107%	12/11/08 08:35 a	0.2	GPC31A
							Rec Limits:	70	130	0.1		L	
Batch: 8343190	EPA 903.0			Work Order:	K38721AC		Report DB ID:	K38721CS					
TOTAL ALPHA RA	5.02	=	0.67	1.2	0.249	pCi/L	91%	6.38	0.098	79%	12/12/08 09:46 a	0.5007	GPC12B
							Rec Limits:	75	125	-0.2		L	
Batch: 8343185	EPA 904.0			Work Order:	K387V1AC		Report DB ID:	K387V1CS					
RA-228	5.21	=	0.58	0.82	0.723	pCi/L	90%	5.10	0.17	102%	12/12/08 01:40 p	1.0002	GPC3B
							Rec Limits:	75	125	0.0		L	

No. of Results: 5 Comments:

TestAmerica
rptSTLRchLcs
V5.2.1 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.
= ERPIMS - Equal To, Analyte Detected

FORM II

MATRIX SPIKE RESULTS

Date: 08-Jan-09

Lab Name: TestAmerica SDG: 38853

Lot-Sample No.: J8K210157-1, OU4-FEP-15A-MW Report No. : 40536 Matrix: WATER AQ

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 8343185	Work Order: K3EVQ1AG			Report DB ID: K3EVQ1GW			Orig Sa DB ID: 9K3EVQ10					
RA-228	6.29	=	1.9	3.4	2.27	pCi/L	90%	32.04%	19.6	12/12/08 01:39 p	0.2593	EPA 904.0
	9.85								0.65		L	GPC2B
Batch: 8343185	Work Order: K3EVQ1AJ			Report DB ID: K3EVQ1JW			Orig Sa DB ID: 9K3EVQ10					
RA-228	17.0	=	2.5	4.4	2.21	pCi/L	90%	84.59%	20.0	12/12/08 01:39 p	0.2533	EPA 904.0
	9.85								0.66		L	GPC2D
Batch: 8343190	Work Order: K3EVQ1AK			Report DB ID: K3EVQ1KW			Orig Sa DB ID: 9K3EVQ10					
TOTAL ALPHA RA	13.4	=	1.6	3.8	0.538	pCi/L	91%	109.01%	12.3	12/12/08 09:46 a	0.2597	EPA 903.0
	2.85								0.19		L	GPC10B
Batch: 8343190	Work Order: K3EVQ1AM			Report DB ID: K3EVQ1MW			Orig Sa DB ID: 9K3EVQ10					
TOTAL ALPHA RA	17.5	=	2.3	4.8	0.602	pCi/L	89%	94.02%	18.6	12/12/08 09:46 a	0.171	EPA 903.0
	2.85								0.29		L	GPC10E
Batch: 8343192	Work Order: K3EVQ1AR			Report DB ID: K3EVQ1RW			Orig Sa DB ID: 9K3EVQ10					
BETA	2480.0	=	120.0	490.0	78.5	pCi/L	100%	96.48%	2570.0	12/10/08 06:29 p	0.0053	EPA 900.0
	750.0								130.0		L	GPC32A
Batch: 8343192	Work Order: K3EVQ1AU			Report DB ID: K3EVQ1UW			Orig Sa DB ID: 9K3EVQ10					
BETA	2400.0	=	120.0	470.0	74.2	pCi/L	100%	93.70%	2560.0	12/10/08 06:29 p	0.0053	EPA 900.0
	750.0								130.0		L	GPC32B
Batch: 8343193	Work Order: K3EVQ1AV			Report DB ID: K3EVQ1VW			Orig Sa DB ID: 9K3EVQ10					
TH-230	29.6	=	2.7	8.2	0.247	pCi/L	119%	102.04%	29.0	12/19/08 12:42 p	0.079	HASL 300
	16.2								0.87		L	ALP116
Batch: 8343193	Work Order: K3EVQ1AX			Report DB ID: K3EVQ1XW			Orig Sa DB ID: 9K3EVQ10					
TH-230	30.4	=	2.5	8.3	0.204	pCi/L	119%	105.71%	28.8	12/19/08 12:42 p	0.079	HASL 300
	16.2								0.86		L	ALP118

TestAmerica
rptSTLRchMs
V5.2.1 A2002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.
= ERPIMS - Equal To, Analyte Detected

FORM II

MATRIX SPIKE RESULTS

Date: 08-Jan-09

Lab Name: TestAmerica **SDG:** 38853

Lot-Sample No.: J8K210157-1, OU4-FEP-15A-MW **Report No. :** 40536 **Matrix:** WATER AQ

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 8361251	Work Order: K3EVQ3A0			Report DB ID: K3EVQ30W			Orig Sa DB ID: 9K3EVQ30					
ALPHA	2730.0	=	160.0	400.0	47.9	pCi/L	100%	59.17%	4610.0	1/3/09 06:41 a	0.003	EPA 00-02
									97.0		L	GPC10C
Batch: 8361251	Work Order: K3EVQ3A1			Report DB ID: K3EVQ31W			Orig Sa DB ID: 9K3EVQ30					
ALPHA	1750.0	=	140.0	280.0	26.9	pCi/L	100%	38.04%	4600.0	1/3/09 06:41 a	0.003	EPA 00-02
									97.0		L	GPC10D

Number of Results: 10

Comments:

TestAmerica
rptSTLRchMs
V5.2.1 A2002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.
= ERPIMS - Equal To, Analyte Detected

FORM II

MATRIX SPIKE DUPLICATE RESULTS

Date: 08-Jan-09

Lab Name: TestAmerica SDG: 38853

Lot-Sample No.: J8K210157-1, OU4-FEP-15A-MW Report No. : 40536 Matrix: WATER AQ

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 8343185	EPA 904.0			Work Order: K3EVQ1AG		Report DB ID: K3EVQ1GW			Orig Sa DB ID: K3EVQ1JW			
RA-228	6.29	=	1.9	3.4	2.27	pCi/L	90%	32.04%	19.6	12/12/08 01:39 p	0.2593	GPC2B
	17.0	RER2	3.8						0.65		L	
Batch: 8343185	EPA 904.0			Work Order: K3EVQ1AJ		Report DB ID: K3EVQ1JW			Orig Sa DB ID: K3EVQ1GW			
RA-228	17.0	=	2.5	4.4	2.21	pCi/L	90%	84.59%	20.0	12/12/08 01:39 p	0.2533	GPC2D
	6.29	RER2	3.8						0.66		L	
Batch: 8343190	EPA 903.0			Work Order: K3EVQ1AK		Report DB ID: K3EVQ1KW			Orig Sa DB ID: K3EVQ1MW			
TOTAL ALPHA RA	13.4	=	1.6	3.8	0.538	pCi/L	91%	109.01%	12.3	12/12/08 09:46 a	0.2597	GPC10B
	17.5	RER2	1.4						0.19		L	
Batch: 8343190	EPA 903.0			Work Order: K3EVQ1AM		Report DB ID: K3EVQ1MW			Orig Sa DB ID: K3EVQ1KW			
TOTAL ALPHA RA	17.5	=	2.3	4.8	0.602	pCi/L	89%	94.02%	18.6	12/12/08 09:46 a	0.171	GPC10E
	13.4	RER2	1.4						0.29		L	
Batch: 8343192	EPA 900.0			Work Order: K3EVQ1AR		Report DB ID: K3EVQ1RW			Orig Sa DB ID: K3EVQ1UW			
BETA	2480.0	=	120.0	490.0	78.5	pCi/L	100%	96.48%	2570.0	12/10/08 06:29 p	0.0053	GPC32A
	2400.0	RER2	0.2						130.0		L	
Batch: 8343192	EPA 900.0			Work Order: K3EVQ1AU		Report DB ID: K3EVQ1UW			Orig Sa DB ID: K3EVQ1RW			
BETA	2400.0	=	120.0	470.0	74.2	pCi/L	100%	93.70%	2560.0	12/10/08 06:29 p	0.0053	GPC32B
	2480.0	RER2	0.2						130.0		L	
Batch: 8343193	HASL 300			Work Order: K3EVQ1AV		Report DB ID: K3EVQ1VW			Orig Sa DB ID: K3EVQ1XW			
TH-230	29.6	=	2.7	8.2	0.247	pCi/L	119%	102.04%	29.0	12/19/08 12:42 p	0.079	ALP116
	30.4	RER2	0.1						0.87		L	
Batch: 8343193	HASL 300			Work Order: K3EVQ1AX		Report DB ID: K3EVQ1XW			Orig Sa DB ID: K3EVQ1VW			
TH-230	30.4	=	2.5	8.3	0.204	pCi/L	119%	105.71%	28.8	12/19/08 12:42 p	0.079	ALP118
	29.6	RER2	0.1						0.86		L	

TestAmerica
rptSTLRchMsDup2
V5.2.1 A2002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.
= ERPIMS - Equal To, Analyte Detected

FORM II

Date: 08-Jan-09

MATRIX SPIKE DUPLICATE RESULTS

Lab Name: TestAmerica **SDG:** 38853

Lot-Sample No.: J8K210157-1, OU4-FEP-15A-MW **Report No. :** 40536 **Matrix:** WATER AQ

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 8361251	EPA 00-02			Work Order: K3EVQ3A0			Report DB ID: K3EVQ30W			Orig Sa DB ID: K3EVQ31W		
ALPHA	2730.0	=	160.0	400.0	47.9	pCi/L	100%	59.17%	4610.0	1/3/09 06:41 a	0.003	GPC10C
	1750.0	***RER2***	4.0						97.0		L	
Batch: 8361251	EPA 00-02			Work Order: K3EVQ3A1			Report DB ID: K3EVQ31W			Orig Sa DB ID: K3EVQ30W		
ALPHA	1750.0	=	140.0	280.0	26.9	pCi/L	100%	38.04%	4600.0	1/3/09 06:41 a	0.003	GPC10D
	2730.0	***RER2***	4.0						97.0		L	

No. of Results: 10 Comments:

TestAmerica
rptSTLRchMsDup2
V5.2.1 A2002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.
= ERPIMS - Equal To, Analyte Detected

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

RICHLAND Water Geochemical

COC # **YER 2045E-4**

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Test America-Richland	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
Address:	2800 George Washington Way	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Richland, WA. 99354	Site Lat/Long:	NA		Carson City, NV 89706
Lab PM:	Erika Jordan	California Global ID No.	NA	Consultant/Contractor Project No.:	136259
Tele/Fax:	509-375-3131 (x160)	Enfos Project No.:	001KF-0193	Consultant/Contractor PM:	Penny Bassett
BP/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
Address:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL 2
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
Tele/Fax:	661-287-3855	Cost Element:	05	Invoice to: Atlantic Richfield Co.	

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: Gross Alpha/beta (900.0)	Requested Analysis: Ra-226/228 (903.0/904.0)	Requested Analysis: Th-228/230 (907.0)	FILTERED	Sample Point Lat/Long and Comments
1	OU4-FEP-15A-MW		11/4/08		X			4			X			X	X	X	Y	K3EVQ
2																		
3																		T8K210157
4																		38853
5																		Due 121108
6																		
7																		
8																		
9																		
10																		

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	SEM INC						
Sampler's Company:	Brown & Caldwell	SEM INC	11/4/08	1330	Royanne Barringer B & C R Barringer	11/4/08	1330
Shipment Date:	11/17/08	Royanne Barringer	11-17-08		S. Smith	11/20/08	1030
Shipment Method:	FedEx Ground						
Shipment Tracking No:	961201 5413141710001281						

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP COC Rev. 5 10/11/2006

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 112008 1030 GM Screen Result .07

Client: BRC SDG #: 38553 NA( ) SAF #: _____ NA ( )

Work Order Number: J8K210157 Chain of Custody # YER 2045E-4

Shipping Container ID: _____ Air Bill # _____

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]

3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]

4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]

6. Number of samples in shipping container: 1

7. Sample holding times exceeded? 4KLP NA [ ] Yes [ ] No [✓]

8 Samples have:
_____ Tape
_____ Custody Seals
_____ Hazard Lables
✓ Appropriate Sample Lables

9. Samples are:
✓ In Good Condition
_____ Broken
_____ Leaking
_____ Have Air Bubbles
(Only for samples requiring no head space.)

10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added _____

11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]

13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 112008

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____