



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

Page of

All shaded fields must be completed.

This is a legal document; any misrepresentation may be construed as fraud.

142429

Client Name RER		Project Identification Upton		Sampler (Signature/Attestation of Authenticity) Robbie Grubbs		Telephone #							
Report Address		Contact Name Kris Thompson		ANALYSES / PARAMETERS									
Invoice Address		Email kthompson@rareelementresources.com											
		Phone 207-283-3500											
		Purchase Order #		Quote #									
						REMARKS							
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	Ce	La	U	Th	Ra-226	Th-230	
1	51304279-001	3-27-13	9:00	8671582	OT		X	X	X	X	X	X	
2	002	3-21-13	11:45	8671583									
3	003	3-15-13	13:00	8671584									
4	004	3-8-13	10:50	8671585									
5	005	2-26-13	12:10	8671586									
6	006	2-19-13	14:30	8671587									
7	007	2-5-13	10:20	8671588									
8	008	1-16-13	17:30	UAMS #4 cont.									
9	009	1-3-13	15:40	8671590									
10													
11													
12													
13													
14													
LAB COMMENTS		Relinquished By (Signature/Printed)		DATE	TIME	Received By (Signature/Printed)		DATE	TIME				
		Callie Taylor / Callie Taylor		4/18/13	12:58	Alice L. McNeil		4/18/13	12:58				
		Carol Kane IML		4/19/13	14:08	Carol Kane IML		4/19/13	10:00				
						Mallory Summer		4/19/13	14:08				
SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS					
<input type="checkbox"/> UPS		Water WT		<input checked="" type="checkbox"/> Check desired service		Compliance Monitoring?		Y / N					
<input type="checkbox"/> Fed Express		Soil SL		<input checked="" type="checkbox"/> Standard turnaround		Program (SDWA, NPDES,...)							
<input type="checkbox"/> US Mail		Solid SD		<input type="checkbox"/> RUSH - 5 Working Days		PWSID / Permit #							
<input type="checkbox"/> Hand Carried		Filter FT		<input type="checkbox"/> URGENT - < 2 Working Days		Chlorinated?		Y / N					
<input type="checkbox"/> Other _____		Other OT		Rush & Urgent Surcharges will be applied		Sample Disposal: Lab		Client					

**Date:** 5/22/2013**CLIENT:** Rare Element Resources (RER)**Project:** Upton**Lab Order:** S1304279**CASE NARRATIVE****Report ID:** S1304279001

Samples 8671582, 8671583, 8671584, 8671585, 8671586, 8671587, 8671588, 8671590, and UAMS#4 cont. were received on April 18, 2013.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

"Standard Methods For The Examination of Water and Wastewater", approved method versions

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition

40 CFR Parts 136 and 141

40 CFR Part 50, Appendices B, J, L, and O

Methods indicated in the Methods Update Rule published in the Federal Register Friday, May 18, 2012

ASTM approved and recognized standards

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

The method blank for this set is MB-6974. It contained the filter that matched the majority of sample filters for this batch, which were glass. M.Slipp MT(ASCP)

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 5/22/2013
Report ID: S1304279001

ProjectName: Upton
Lab ID: S1304279-001
ClientSample ID: 8671582
COC: 142429

WorkOrder: S1304279
CollectionDate: 3/27/2013 9:00:00 AM
DateReceived: 4/18/2013 12:58:00 PM
FieldSampler: RG
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Radionuclides - Filter

Radium 226	0.6	pCi/Filter		0.3	SM 7500RAB	05/08/2013 1219 SH
Radium 226 Precision (±)	0.3	pCi/Filter			SM 7500RAB	05/08/2013 1219 SH
Thorium 230	ND	pCi/Filter		0.2	ACW10	05/13/2013 1555 MB
Thorium 230 Precision (±)	NA	pCi/Filter			ACW10	05/13/2013 1555 MB

Metals - Filter

Cerium	ND	µg/Filter		16	IO-3.5	04/25/2013 1541 MS
Lanthanum	ND	µg/Filter		16	IO-3.5	04/25/2013 1541 MS
Thorium	ND	µg/Filter		16	IO-3.5	04/25/2013 1541 MS
Uranium	ND	µg/Filter		15	IO-3.5	04/25/2013 1541 MS

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 5/22/2013
Report ID: S1304279001

ProjectName: Upton
Lab ID: S1304279-002
ClientSample ID: 8671583
COC: 142429

WorkOrder: S1304279
CollectionDate: 3/21/2013 11:45:00 AM
DateReceived: 4/18/2013 12:58:00 PM
FieldSampler: RG
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Radionuclides - Filter

Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	05/08/2013 1219 SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	05/08/2013 1219 SH
Thorium 230	0.3	pCi/Filter		0.2	ACW10	05/13/2013 1555 MB
Thorium 230 Precision (±)	0.6	pCi/Filter			ACW10	05/13/2013 1555 MB

Metals - Filter

Cerium	ND	µg/Filter		16	IO-3.5	04/25/2013 1547 MS
Lanthanum	ND	µg/Filter		16	IO-3.5	04/25/2013 1547 MS
Thorium	ND	µg/Filter		16	IO-3.5	04/25/2013 1547 MS
Uranium	ND	µg/Filter		15	IO-3.5	04/25/2013 1547 MS

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 5/22/2013
Report ID: S1304279001

ProjectName: Upton
Lab ID: S1304279-003
ClientSample ID: 8671584
COC: 142429

WorkOrder: S1304279
CollectionDate: 3/15/2013 1:00:00 PM
DateReceived: 4/18/2013 12:58:00 PM
FieldSampler: RG
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Radionuclides - Filter

Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	05/08/2013 1219 SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	05/08/2013 1219 SH
Thorium 230	0.9	pCi/Filter		0.2	ACW10	05/13/2013 1555 MB
Thorium 230 Precision (±)	0.6	pCi/Filter			ACW10	05/13/2013 1555 MB

Metals - Filter

Cerium	18	µg/Filter		16	IO-3.5	04/25/2013 1600 MS
Lanthanum	ND	µg/Filter		16	IO-3.5	04/25/2013 1600 MS
Thorium	ND	µg/Filter		16	IO-3.5	04/25/2013 1600 MS
Uranium	ND	µg/Filter		15	IO-3.5	04/25/2013 1600 MS

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 5/22/2013
Report ID: S1304279001

ProjectName: Upton
Lab ID: S1304279-004
ClientSample ID: 8671585
COC: 142429

WorkOrder: S1304279
CollectionDate: 3/8/2013 10:50:00 AM
DateReceived: 4/18/2013 12:58:00 PM
FieldSampler: RG
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Radionuclides - Filter

Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	05/08/2013 1219 SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	05/08/2013 1219 SH
Thorium 230	ND	pCi/Filter		0.2	ACW10	05/13/2013 1555 MB
Thorium 230 Precision (±)	NA	pCi/Filter			ACW10	05/13/2013 1555 MB

Metals - Filter

Cerium	ND	µg/Filter		16	IO-3.5	04/25/2013 1606 MS
Lanthanum	ND	µg/Filter		16	IO-3.5	04/25/2013 1606 MS
Thorium	ND	µg/Filter		16	IO-3.5	04/25/2013 1606 MS
Uranium	ND	µg/Filter		15	IO-3.5	04/25/2013 1606 MS

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

RL - Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported: 5/22/2013
Report ID: S1304279001

ProjectName: Upton
Lab ID: S1304279-005
ClientSample ID: 8671586
COC: 142429

WorkOrder: S1304279
CollectionDate: 2/26/2013 12:10:00 PM
DateReceived: 4/18/2013 12:58:00 PM
FieldSampler: RG
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Radionuclides - Filter

Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	05/08/2013 1219 SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	05/08/2013 1219 SH
Thorium 230	0.2	pCi/Filter		0.2	ACW10	05/13/2013 1555 MB
Thorium 230 Precision (±)	0.6	pCi/Filter			ACW10	05/13/2013 1555 MB

Metals - Filter

Cerium	ND	µg/Filter		16	IO-3.5	04/25/2013 1610 MS
Lanthanum	ND	µg/Filter		16	IO-3.5	04/25/2013 1610 MS
Thorium	ND	µg/Filter		16	IO-3.5	04/25/2013 1610 MS
Uranium	ND	µg/Filter		15	IO-3.5	04/25/2013 1610 MS

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 5/22/2013
Report ID: S1304279001

ProjectName: Upton
Lab ID: S1304279-006
ClientSample ID: 8671587
COC: 142429

WorkOrder: S1304279
CollectionDate: 2/19/2013 2:30:00 PM
DateReceived: 4/18/2013 12:58:00 PM
FieldSampler: RG
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Radionuclides - Filter

Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	05/08/2013 1219 SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	05/08/2013 1219 SH
Thorium 230	0.3	pCi/Filter		0.2	ACW10	05/13/2013 1556 MB
Thorium 230 Precision (±)	0.6	pCi/Filter			ACW10	05/13/2013 1556 MB

Metals - Filter

Cerium	ND	µg/Filter		16	IO-3.5	04/25/2013 1613 MS
Lanthanum	ND	µg/Filter		16	IO-3.5	04/25/2013 1613 MS
Thorium	ND	µg/Filter		16	IO-3.5	04/25/2013 1613 MS
Uranium	ND	µg/Filter		15	IO-3.5	04/25/2013 1613 MS

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

RL - Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 5/22/2013
Report ID: S1304279001

ProjectName: Upton
Lab ID: S1304279-007
ClientSample ID: 8671588
COC: 142429

WorkOrder: S1304279
CollectionDate: 2/5/2013 10:20:00 AM
DateReceived: 4/18/2013 12:58:00 PM
FieldSampler: RG
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Radionuclides - Filter

Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	05/08/2013 1219 SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	05/08/2013 1219 SH
Thorium 230	1.6	pCi/Filter		0.2	ACW10	05/13/2013 1556 MB
Thorium 230 Precision (±)	0.6	pCi/Filter			ACW10	05/13/2013 1556 MB

Metals - Filter

Cerium	ND	µg/Filter		16	IO-3.5	04/25/2013 1616 MS
Lanthanum	ND	µg/Filter		16	IO-3.5	04/25/2013 1616 MS
Thorium	ND	µg/Filter		16	IO-3.5	04/25/2013 1616 MS
Uranium	ND	µg/Filter		15	IO-3.5	04/25/2013 1616 MS

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 5/22/2013
Report ID: S1304279001

ProjectName: Upton
Lab ID: S1304279-008
ClientSample ID: UAMS#4 cont.
COC: 142429

WorkOrder: S1304279
CollectionDate: 1/16/2013 5:30:00 PM
DateReceived: 4/18/2013 12:58:00 PM
FieldSampler: RG
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Radionuclides - Filter

Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	05/08/2013 1219 SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	05/08/2013 1219 SH
Thorium 230	ND	pCi/Filter		0.2	ACW10	05/15/2013 000 MB
Thorium 230 Precision (±)	NA	pCi/Filter			ACW10	05/15/2013 000 MB

Metals - Filter

Cerium	37	µg/Filter		16	IO-3.5	04/25/2013 1619 MS
Lanthanum	19	µg/Filter		16	IO-3.5	04/25/2013 1619 MS
Thorium	ND	µg/Filter		16	IO-3.5	04/25/2013 1619 MS
Uranium	ND	µg/Filter		15	IO-3.5	04/25/2013 1619 MS

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
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S Spike Recovery outside accepted recovery limits

RL - Reporting Limit

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E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 5/22/2013
Report ID: S1304279001

ProjectName: Upton
Lab ID: S1304279-009
ClientSample ID: 8671590
COC: 142429

WorkOrder: S1304279
CollectionDate: 1/3/2013 3:40:00 PM
DateReceived: 4/18/2013 12:58:00 PM
FieldSampler: RG
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Filter							
Radium 226	5.8	pCi/Filter		0.3	SM 7500RAB	05/08/2013 1219	SH
Radium 226 Precision (±)	0.6	pCi/Filter			SM 7500RAB	05/08/2013 1219	SH
Thorium 230	ND	pCi/Filter		0.2	ACW10	05/15/2013 000	MB
Thorium 230 Precision (±)	NA	pCi/Filter			ACW10	05/15/2013 000	MB
Metals - Filter							
Cerium	47	µg/Filter		16	IO-3.5	04/25/2013 1622	MS
Lanthanum	25	µg/Filter		16	IO-3.5	04/25/2013 1622	MS
Thorium	ND	µg/Filter		16	IO-3.5	04/25/2013 1622	MS
Uranium	ND	µg/Filter		15	IO-3.5	04/25/2013 1622	MS

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

RL - Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager