



ANALYTICAL SUMMARY REPORT

December 13, 2012

Rare Element Resources Inc
225 Union Blvd Ste 250
Lakewood, CO 80228-1574

Workorder No.: G12110214

Project Name: Upton

Energy Laboratories Inc. Gillette WY received the following 3 samples for Rare Element Resources Inc on 11/9/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G12110214-001	UAMS#2 Cont.	10/11/12 11:40	11/09/12	Filter	Metals on air filter by ICP/ICPMS Digestion, Total Metals Nitric acid-extraction Radium 226 Thorium, Isotopic
G12110214-002	UAMS#3 Cont.	10/19/12 16:50	11/09/12	Filter	Same As Above
G12110214-003	UAMS#1 Cont.	11/07/12 17:00	11/09/12	Filter	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 400 W. Boxelder Rd., Gillette, WY 82718, unless otherwise noted.

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these tests results, please call.

Report Approved By:



CLIENT: Rare Element Resources Inc
Project: Upton
Sample Delivery Group: G12110214

Report Date: 12/13/12

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.



LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Rare Element Resources Inc
Project: Upton
Lab ID: G12110214-001
Client Sample ID UAMS#2 Cont.

Report Date: 12/13/12
Collection Date: 10/11/12 11:40
DateReceived: 11/09/12
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
METALS IN AIR							
Cerium	32	ug/filter		1	0.001	E200.8	11/13/12 12:15 / eli-b
Lanthanum	16	ug/filter		1	0.001	E200.8	11/13/12 12:15 / eli-b
Thorium	7	ug/filter		1	0.004	E200.8	11/13/12 12:15 / eli-b
Uranium	3	ug/filter		1	0.00002	E200.8	11/13/12 12:15 / eli-b
RADIONUCLIDES - TOTAL							
Radium 226	0.9	pCi/Filter	U			E903.0	12/04/12 21:36 / eli-c
Radium 226 precision (±)	1.1	pCi/Filter				E903.0	12/04/12 21:36 / eli-c
Radium 226 MDC	1.7	pCi/Filter				E903.0	12/04/12 21:36 / eli-c
RADIOCHEMICAL							
Thorium 230	1.6	pCi/Filter				E908.0	11/29/12 10:55 / eli-c
Thorium 230 precision (±)	0.61	pCi/Filter				E908.0	11/29/12 10:55 / eli-c
Thorium 230 MDC	0.56	pCi/Filter				E908.0	11/29/12 10:55 / eli-c

Report Definitions:
 RL - Analyte reporting limit.
 MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

MDL - Method detection limit
 QCL - Quality control limit.
 MDC - Minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Rare Element Resources Inc
Project: Upton
Lab ID: G12110214-002
Client Sample ID UAMS#3 Cont.

Report Date: 12/13/12
Collection Date: 10/19/12 16:50
DateReceived: 11/09/12
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
METALS IN AIR							
Cerium	23	ug/filter		1	0.001	E200.8	11/13/12 12:10 / eli-b
Lanthanum	11	ug/filter		1	0.001	E200.8	11/13/12 12:10 / eli-b
Thorium	5	ug/filter		1	0.004	E200.8	11/13/12 12:10 / eli-b
Uranium	1	ug/filter		1	0.00002	E200.8	11/13/12 12:10 / eli-b
RADIONUCLIDES - TOTAL							
Radium 226	2.3	pCi/Filter				E903.0	12/04/12 21:36 / eli-c
Radium 226 precision (±)	1.3	pCi/Filter				E903.0	12/04/12 21:36 / eli-c
Radium 226 MDC	1.7	pCi/Filter				E903.0	12/04/12 21:36 / eli-c
RADIOCHEMICAL							
Thorium 230	0.95	pCi/Filter				E908.0	11/29/12 10:55 / eli-c
Thorium 230 precision (±)	0.46	pCi/Filter				E908.0	11/29/12 10:55 / eli-c
Thorium 230 MDC	0.47	pCi/Filter				E908.0	11/29/12 10:55 / eli-c

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QCL - Quality control limit.
MDC - Minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Rare Element Resources Inc
Project: Upton
Lab ID: G12110214-003
Client Sample ID UAMS#1 Cont.

Report Date: 12/13/12
Collection Date: 11/07/12 17:00
DateReceived: 11/09/12
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
METALS IN AIR							
Cerium	61	ug/filter		1	0.001	E200.8	11/13/12 12:05 / eli-b
Lanthanum	30	ug/filter		1	0.001	E200.8	11/13/12 12:05 / eli-b
Thorium	14	ug/filter		1	0.004	E200.8	11/13/12 12:05 / eli-b
Uranium	4	ug/filter		1	0.00002	E200.8	11/13/12 12:05 / eli-b
RADIONUCLIDES - TOTAL							
Radium 226	3.6	pCi/Filter				E903.0	12/04/12 21:36 / eli-c
Radium 226 precision (±)	1.5	pCi/Filter				E903.0	12/04/12 21:36 / eli-c
Radium 226 MDC	1.7	pCi/Filter				E903.0	12/04/12 21:36 / eli-c
RADIOCHEMICAL							
Thorium 230	2.0	pCi/Filter				E908.0	11/29/12 10:55 / eli-c
Thorium 230 precision (±)	0.63	pCi/Filter				E908.0	11/29/12 10:55 / eli-c
Thorium 230 MDC	0.47	pCi/Filter				E908.0	11/29/12 10:55 / eli-c

Report Definitions:
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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Rare Element Resources Inc
Project: Upton

Report Date: 11/15/12
Work Order: G12110214

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8							Analytical Run: ICPMS203-B_121113A			
Sample ID: QCS	Initial Calibration Verification Standard							11/13/12 09:44		
Cerium	0.0509	mg/L	0.0010	102	90	110				
Lanthanum	0.0502	mg/L	0.0010	100	90	110				
Thorium	0.0202	mg/L	0.0010	101	90	110				
Uranium	0.0195	mg/L	0.0010	98	90	110				
Method: E200.8							Batch: 66989			
Sample ID: MB-66989	Method Blank							Run: ICPMS203-B_121113A 11/13/12 10:40		
Cerium	0.009	ug/filter	8E-05							
Lanthanum	0.006	ug/filter	8E-05							
Thorium	0.3	ug/filter	0.0004							
Uranium	0.002	ug/filter	1E-06							
Sample ID: G12110214-001ADUP	Sample Duplicate							Run: ICPMS203-B_121113A 11/13/12 12:20		
Cerium	31.5	ug/filter	1.0				0.3	20		
Lanthanum	15.5	ug/filter	1.0				0.2	20		
Thorium	6.10	ug/filter	1.0				6.9	20		
Uranium	2.77	ug/filter	1.0				0.1	20		
Sample ID: LFBD-66989	Laboratory Fortified Blank Duplicate							Run: ICPMS203-B_121113A 11/13/12 12:25		
Cerium	10.2	ug/filter	1.0	102	80	120				
Lanthanum	10.0	ug/filter	1.0	100	80	120				
Thorium	10.0	ug/filter	1.0	98	80	120				
Uranium	10.3	ug/filter	1.0	103	80	120				
Sample ID: LFB-66989	Laboratory Fortified Blank							Run: ICPMS203-B_121113A 11/13/12 12:30		
Cerium	10.1	ug/filter	1.0	101	80	120				
Lanthanum	9.96	ug/filter	1.0	100	80	120				
Thorium	10.2	ug/filter	1.0	99	80	120				
Uranium	10.2	ug/filter	1.0	102	80	120				
Sample ID: G12110214-001AMS	Sample Matrix Spike							Run: ICPMS203-B_121113A 11/13/12 13:15		
Cerium	94.9	ug/filter	0.010	106	70	130				
Lanthanum	77.7	ug/filter	0.010	104	70	130				
Thorium	74.8	ug/filter	0.010	114	70	130				
Uranium	67.9	ug/filter	0.010	109	70	130				
Sample ID: G12110214-001AMSD	Sample Matrix Spike Duplicate							Run: ICPMS203-B_121113A 11/13/12 13:20		
Cerium	92.7	ug/filter	0.010	102	70	130	2.4	20		
Lanthanum	75.4	ug/filter	0.010	100	70	130	3.0	20		
Thorium	70.0	ug/filter	0.010	106	70	130	6.7	20		
Uranium	65.5	ug/filter	0.010	105	70	130	3.6	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Rare Element Resources Inc
Project: Upton

Report Date: 12/10/12
Work Order: G12110214

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: R167919
Sample ID: MB-35758	Method Blank								Run: BERTHOLD 770-1_121127A 12/04/12 21:36
Radium 226	-0.2	pCi/Filter							U
Radium 226 precision (±)	0.1	pCi/Filter							
Radium 226 MDC	0.3	pCi/Filter							
Sample ID: LCS-35758	Laboratory Control Sample								Run: BERTHOLD 770-1_121127A 12/04/12 21:36
Radium 226	13.3	pCi/Filter	113		80	120			
Sample ID: C12110546-001AMS	Sample Matrix Spike								Run: BERTHOLD 770-1_121127A 12/04/12 21:36
Radium 226	4.77E-05	pCi/Filter	117		70	130			
Sample ID: C12110546-001AMSD	Sample Matrix Spike Duplicate								Run: BERTHOLD 770-1_121127A 12/04/12 21:36
Radium 226	4.65E-05	pCi/Filter	109		70	130	2.7	25.4	

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Rare Element Resources Inc
Project: Upton

Report Date: 12/10/12
Work Order: G12110214

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0									Batch: R167937
Sample ID: G12110214-003BMS Thorium 230	Sample Matrix Spike 107	pCi/Filter	103	70	70	130			Run: ALPHANALYST_121126A 11/29/12 10:55
Sample ID: G12110214-003BMSD Thorium 230	Sample Matrix Spike Duplicate 117	pCi/Filter	113	70	70	130	8.5	30.7	Run: ALPHANALYST_121126A 11/29/12 10:55
Sample ID: LCS-35758 Thorium 230	Laboratory Control Sample 9.76	pCi/Filter	98	80	80	120			Run: ALPHANALYST_121126A 11/29/12 10:56
Sample ID: MB-35758 Thorium 230	Method Blank 0.2	pCi/Filter							Run: ALPHANALYST_121126A 11/29/12 10:56 U
Thorium 230 precision (±)	0.1	pCi/Filter							
Thorium 230 MDC	0.2	pCi/Filter							

Qualifiers:

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Standard Reporting Procedures

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Workorder Receipt Checklist

Rare Element Resources Inc

G12110214

Login completed by: Tracey Archer

Date Received: 11/9/2012

Reviewed by: BL2000\kscotruff

Received by: kls

Reviewed Date: 11/9/2012

Carrier Hand Del
name:

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>
Container/Temp Blank temperature:	°C		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Project Name, PWS, Permit, Etc.

Sample Origin

EPA/State Compliance: Yes No

Company Name: **PER**

Report Mail Address: **ON FILE**

Contact Name: **UPTON**

State: **WY**

Sampler: (Please Print) **GRUBBS**

Invoice Address:

Invoice Contact & Phone:

Purchase Order:

Quote/Bottle Order:

Special Report/Formats:

- DW
- POTW/WWTP
- State: _____
- Other: _____
- EDD/EDT (Electronic Data)
- Format: _____
- LEVEL IV
- NELAC

Number of Containers
 Sample Type: A W S V B O DW
 Air Water Soils/Solids
 Vegetation Bioassay Other
 DW - Drinking Water

ANALYSIS REQUESTED

SEE ATTACHED

Standard Turnaround (TAT)

RUSH

Contact ELL prior to RUSH sample submittal for charges and scheduling -- See Instruction Page

Comments:

Shipped by: **HAAS**

Receipt Temp: **NA** °C

On Ice: **Y** N

Custody Seal: **Y** N

Intact: **Y** N

Signature Match: **Y** N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED	Standard Turnaround (TAT)	Comments:	Shipped by:	Receipt Temp	On Ice:	Custody Seal	Intact	Signature Match
1 UAMS # 2 Cont.	10/11/12	1140	A	K								
2 UAMS # 3 Cont.	10/19/12	1650	A	K								
3 UAMS # 1 Cont	11/7/12	1700	A	K								
4												
5												
6												
7												
8												
9												
10												

Relinquished by (print): **ROBBIE GROSS** Date/Time: **11/9/12 0835** Signature: *[Signature]*

Received by (print): _____ Date/Time: _____ Signature: _____

Relinquished by (print): _____ Date/Time: _____ Signature: _____

Received by Laboratory: **11/9/12 0835** Signature: *[Signature]*

LABORATORY USE ONLY

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.