

ANALYTICAL SUMMARY REPORT

January 31, 2013

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

Workorder No.: G12100317

Project Name: Upton

Energy Laboratories Inc. Gillette WY received the following 10 samples for Rare Element Resources Inc on 10/11/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G12100317-001	UAMS #4 Continuous	09/27/12 15:20	10/11/12	Filter	Metals on air filter by ICP/ICPMS Digestion, Total Metals Nitric acid-extraction Radium 226 Thorium, Isotopic
G12100317-002	UAMS #4 PM 10	09/30/12 16:00	10/11/12	Filter	PM-10 Filter Analysis
G12100317-003	UAMS #1 Continuous	10/04/12 16:20	10/11/12	Filter	Metals on air filter by ICP/ICPMS Digestion, Total Metals Nitric acid-extraction Radium 226 Thorium, Isotopic
G12100317-004	UAMS #3 PM 2.5	09/15/12 17:00	10/11/12	Filter	PM-10 Filter Analysis
G12100317-005	UAMS #3 PM 10	09/13/12 18:30	10/11/12	Filter	Same As Above
G12100317-006	UAMS #3 Continuous	09/13/12 17:30	10/11/12	Filter	Metals on air filter by ICP/ICPMS Digestion, Total Metals Nitric acid-extraction Radium 226 Thorium, Isotopic
G12100317-007	UAMS #2 PM 2.5	09/09/12 16:10	10/11/12	Filter	PM-10 Filter Analysis
G12100317-008	UAMS #2 PM 10	09/05/12 17:40	10/11/12	Filter	Same As Above
G12100317-009	UAMS #1 Continuous	08/26/12 14:40	10/11/12	Filter	Metals on air filter by ICP/ICPMS Digestion, Total Metals Nitric acid-extraction Radium 226 Thorium, Isotopic
G12100317-010	UAMS #2 Continuous	09/02/12 17:30	10/11/12	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: G12100317

Revised Date: 01/31/13

Report Date: 11/06/12

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.

RevB:

The Sample ID's on the Gravimetric reports have been revised to UAMS to reflect the Upton project.

Tracey L. Archer

LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Rare Element Resources Inc
Project: Upton
Lab ID: G12100317-001
Client Sample ID UAMS #4 Continuous

Revised Date: 01/31/13
Report Date: 11/06/12
Collection Date: 09/27/12 15:20
DateReceived: 10/11/12
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
METALS IN AIR							
Cerium	50	ug/filter		1	0.4	E200.8	10/24/12 12:31 / eli-b
Lanthanum	24	ug/filter		1	0.4	E200.8	10/24/12 12:31 / eli-b
Thorium	8	ug/filter		1	0.0005	E200.8	10/26/12 10:58 / eli-b
Uranium	2	ug/filter		1	0.00008	E200.8	10/22/12 02:25 / eli-b
RADIONUCLIDES - TOTAL							
Radium 226	0.9	pCi/Filter	U			E903.0	10/29/12 11:55 / eli-ca
Radium 226 precision (±)	0.9	pCi/Filter				E903.0	10/29/12 11:55 / eli-ca
Radium 226 MDC	1.4	pCi/Filter				E903.0	10/29/12 11:55 / eli-ca
RADIONUCLIDES							
Thorium 230	1.8	pCi/Filter				E908.0	10/24/12 16:14 / eli-ca
Thorium 230 precision (±)	0.70	pCi/Filter				E908.0	10/24/12 16:14 / eli-ca
Thorium 230 MDC	0.79	pCi/Filter				E908.0	10/24/12 16:14 / eli-ca

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: G12100317-003
Client Sample ID UAMS #1 Continuous

Revised Date: 01/31/13
Report Date: 11/06/12
Collection Date: 10/04/12 16:20
DateReceived: 10/11/12
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
METALS IN AIR							
Cerium	69	ug/filter		1	0.4	E200.8	10/24/12 12:36 / eli-b
Lanthanum	34	ug/filter		1	0.4	E200.8	10/24/12 12:36 / eli-b
Thorium	12	ug/filter		1	0.0005	E200.8	10/26/12 11:01 / eli-b
Uranium	4	ug/filter		1	0.00008	E200.8	10/22/12 02:20 / eli-b
RADIONUCLIDES - TOTAL							
Radium 226	2.6	pCi/Filter				E903.0	10/29/12 13:53 / eli-ca
Radium 226 precision (±)	1.2	pCi/Filter				E903.0	10/29/12 13:53 / eli-ca
Radium 226 MDC	1.4	pCi/Filter				E903.0	10/29/12 13:53 / eli-ca
RADIONUCLIDES							
Thorium 230	2.5	pCi/Filter				E908.0	10/24/12 16:14 / eli-ca
Thorium 230 precision (±)	0.72	pCi/Filter				E908.0	10/24/12 16:14 / eli-ca
Thorium 230 MDC	0.51	pCi/Filter				E908.0	10/24/12 16:14 / eli-ca

Report Definitions: RL - Analyte reporting limit.
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MDC - Minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Rare Element Resources Inc
Project: Upton
Lab ID: G12100317-006
Client Sample ID UAMS #3 Continuous

Revised Date: 01/31/13
Report Date: 11/06/12
Collection Date: 09/13/12 17:30
DateReceived: 10/11/12
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
METALS IN AIR							
Cerium	23	ug/filter		1	0.4	E200.8	10/24/12 12:41 / eli-b
Lanthanum	12	ug/filter		1	0.4	E200.8	10/24/12 12:41 / eli-b
Thorium	3	ug/filter		1	0.0005	E200.8	10/26/12 11:04 / eli-b
Uranium	1	ug/filter		1	0.00008	E200.8	10/22/12 03:33 / eli-b
RADIONUCLIDES - TOTAL							
Radium 226	0.5	pCi/Filter	U		E903.0		10/29/12 13:53 / eli-ca
Radium 226 precision (±)	0.8	pCi/Filter			E903.0		10/29/12 13:53 / eli-ca
Radium 226 MDC	1.3	pCi/Filter			E903.0		10/29/12 13:53 / eli-ca
RADIONUCLIDES							
Thorium 230	0.80	pCi/Filter			E908.0		10/24/12 16:14 / eli-ca
Thorium 230 precision (±)	0.48	pCi/Filter			E908.0		10/24/12 16:14 / eli-ca
Thorium 230 MDC	0.64	pCi/Filter			E908.0		10/24/12 16:14 / eli-ca

Report Definitions:
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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: G12100317-009
Client Sample ID UAMS #1 Continuous

Revised Date: 01/31/13
Report Date: 11/06/12
Collection Date: 08/26/12 14:40
DateReceived: 10/11/12
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
METALS IN AIR							
Cerium	64	ug/filter		1	0.4	E200.8	10/24/12 12:46 / eli-b
Lanthanum	32	ug/filter		1	0.4	E200.8	10/24/12 12:46 / eli-b
Thorium	11	ug/filter		1	0.0005	E200.8	10/26/12 11:07 / eli-b
Uranium	4	ug/filter		1	0.00008	E200.8	10/22/12 03:28 / eli-b
RADIONUCLIDES - TOTAL							
Radium 226	1.8	pCi/Filter				E903.0	10/29/12 13:53 / eli-ca
Radium 226 precision (±)	1	pCi/Filter				E903.0	10/29/12 13:53 / eli-ca
Radium 226 MDC	1.2	pCi/Filter				E903.0	10/29/12 13:53 / eli-ca
RADIONUCLIDES							
Thorium 230	1.8	pCi/Filter				E908.0	10/24/12 16:14 / eli-ca
Thorium 230 precision (±)	0.63	pCi/Filter				E908.0	10/24/12 16:14 / eli-ca
Thorium 230 MDC	0.61	pCi/Filter				E908.0	10/24/12 16:14 / eli-ca

Report Definitions:
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ND - Not detected at the reporting limit.

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: G12100317-010
Client Sample ID UAMS #2 Continuous

Revised Date: 01/31/13
Report Date: 11/06/12
Collection Date: 09/02/12 17:30
DateReceived: 10/11/12
Matrix: Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
METALS IN AIR							
Cerium	34	ug/filter		1	0.4	E200.8	10/24/12 12:51 / eli-b
Lanthanum	17	ug/filter		1	0.4	E200.8	10/24/12 12:51 / eli-b
Thorium	6	ug/filter		1	0.0005	E200.8	10/26/12 11:09 / eli-b
Uranium	2	ug/filter		1	0.00008	E200.8	10/22/12 02:14 / eli-b
RADIONUCLIDES - TOTAL							
Radium 226	1.2	pCi/Filter	U			E903.0	10/29/12 13:53 / eli-ca
Radium 226 precision (±)	0.9	pCi/Filter				E903.0	10/29/12 13:53 / eli-ca
Radium 226 MDC	1.2	pCi/Filter				E903.0	10/29/12 13:53 / eli-ca
RADIONUCLIDES							
Thorium 230	2.0	pCi/Filter				E908.0	10/24/12 16:14 / eli-ca
Thorium 230 precision (±)	0.68	pCi/Filter				E908.0	10/24/12 16:14 / eli-ca
Thorium 230 MDC	0.64	pCi/Filter				E908.0	10/24/12 16:14 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
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U - Not detected at minimum detectable concentration

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

Date: 01/29/13

2012 FILTER DATA
UAMS#4, PM10
Site: Rare Element Resources Upton

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12101289-002	09/27/12	58781	10/16/12	06/19/12	1440	4.6140	4.5783	0.0357

Date: 01/29/13

2012 FILTER DATA
UAMS#3, PM2.5
Site: Rare Element Resources Upton

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12101289-004	09/13/12	58780	10/16/12	06/19/12	1440	4.6481	4.6319	0.0162

Date: 01/29/13

2012 FILTER DATA
UAMS#3, PM10
Site: Rare Element Resources Upton

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12101289-005	09/11/12	58779	10/16/12	06/19/12	1440	4.6836	4.6216	0.0620

Date: 01/29/13

2012 FILTER DATA
UAMS#2, PM2.5
Site: Rare Element Resources Upton

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12101289-007	09/05/12	58778	10/16/12	06/19/12	1440	4.5457	4.5271	0.0186

Date: 01/29/13

2012 FILTER DATA
UAMS#2, PM10
Site: Rare Element Resources Upton

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12101289-008	09/02/12	58777	10/16/12	06/19/12	1440	4.6647	4.6095	0.0552

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Rare Element Resources Inc

Project: Upton

Report Date: 10/30/12

Work Order: G12100317

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8					Analytical Run: ICPMS202-B_121025B				
Sample ID: QCS	Initial Calibration Verification Standard								10/26/12 03:48
Thorium	0.0217	mg/L	0.0010	108	90	110			
Method: E200.8					Batch: 66221				
Sample ID: MB-66221	Method Blank								10/26/12 10:55
Thorium	0.03	ug/filter	4E-05						
Sample ID: LFB-66221	Laboratory Fortified Blank								10/26/12 11:36
Thorium	9.66	ug/filter	1.0	96	80	120			
Sample ID: LFBD-66221	Laboratory Fortified Blank Duplicate								10/26/12 11:39
Thorium	10.2	ug/filter	1.0	102	80	120	18	20	
Sample ID: G12100317-003AMS	Sample Matrix Spike								10/26/12 11:42
Thorium	69.8	ug/filter	1.0	96	70	130			
Sample ID: G12100317-003AMSD	Sample Matrix Spike Duplicate								10/26/12 11:45
Thorium	66.6	ug/filter	1.0	91	70	130	4.7	20	
Method: E200.8					Analytical Run: ICPMS203-B_121020A				
Sample ID: QCS	Initial Calibration Verification Standard								10/21/12 16:04
Thorium	0.0220	mg/L	0.0010	110	90	110			
Uranium	0.0206	mg/L	0.0010	103	90	110			
Method: E200.8					Batch: 66221				
Sample ID: MB-66221	Method Blank								10/22/12 02:41
Thorium	1.0	ug/filter	0.002						
Uranium	ND	ug/filter	7E-06						
Sample ID: B12101290-003AMSD	Sample Matrix Spike Duplicate								10/22/12 00:35
Thorium	294	ug/filter	1.0	98	70	130	3.7	20	
Uranium	312	ug/filter	1.0	104	70	130	1.5	20	
Sample ID: B12101290-003AMS	Sample Matrix Spike								10/22/12 01:27
Thorium	305	ug/filter	1.0	102	70	130			
Uranium	317	ug/filter	1.0	106	70	130			
Sample ID: LFBD-66221	Laboratory Fortified Blank Duplicate								10/22/12 02:30
Thorium	7.98	ug/filter	1.0	70	80	120	6.9	20	S
Uranium	9.76	ug/filter	1.0	98	80	120	0.6	20	
Sample ID: LFB-66221	Laboratory Fortified Blank								10/22/12 02:35
Thorium	8.55	ug/filter	1.0	76	80	120			S
Uranium	9.70	ug/filter	1.0	97	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Rare Element Resources Inc

Report Date: 10/30/12

Project: Upton

Work Order: G12100317

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8					Analytical Run: ICPMS203-B_121024A				
Sample ID: QCS	Initial Calibration Verification Standard								10/24/12 11:01
Cerium	0.0520	mg/L	0.0010	104	90	110			
Lanthanum	0.0512	mg/L	0.0010	102	90	110			
Method: E200.8					Batch: 66221				
Sample ID: MB-66221	Method Blank								Run: ICPMS203-B_121024A 10/24/12 12:26
Cerium	ND	ug/filter	0.04						
Lanthanum	ND	ug/filter	0.04						
Sample ID: LFB-66221	Laboratory Fortified Blank								Run: ICPMS203-B_121024A 10/24/12 13:46
Cerium	10.2	ug/filter	1.0	102	80	120			
Lanthanum	10.0	ug/filter	1.0	100	80	120			
Sample ID: LFBD-66221	Laboratory Fortified Blank Duplicate								Run: ICPMS203-B_121024A 10/24/12 13:51
Cerium	10.3	ug/filter	1.0	103	80	120	1.9	20	
Lanthanum	10.3	ug/filter	1.0	103	80	120	2.4	20	
Sample ID: B12101290-003AMS	Sample Matrix Spike								Run: ICPMS203-B_121024A 10/24/12 13:56
Cerium	334	ug/filter	1.0	105	70	130			
Lanthanum	323	ug/filter	1.0	104	70	130			
Sample ID: B12101290-003AMSD	Sample Matrix Spike Duplicate								Run: ICPMS203-B_121024A 10/24/12 14:01
Cerium	339	ug/filter	1.0	107	70	130	1.4	20	
Lanthanum	327	ug/filter	1.0	106	70	130	1.3	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

Report Date: 11/01/12

Project: Upton

Work Order: G12100317

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0							Batch: R166568		
Sample ID: MB-35354	Method Blank					Run: BERTHOLD 770-1_121019D		10/29/12 11:55	
Radium 226	-0.08	pCi/Filter							U
Radium 226 precision (±)	0.1	pCi/Filter							
Radium 226 MDC	0.3	pCi/Filter							
Sample ID: LCS-35354	Laboratory Control Sample					Run: BERTHOLD 770-1_121019D		10/29/12 11:55	
Radium 226	13.0	pCi/Filter	111		80	120			
Sample ID: G12100317-003BMS	Sample Matrix Spike					Run: BERTHOLD 770-1_121019D		10/29/12 13:53	
Radium 226	69.5	pCi/Filter	107		70	130			
Sample ID: G12100317-003BMSD	Sample Matrix Spike Duplicate					Run: BERTHOLD 770-1_121019D		10/29/12 13:53	
Radium 226	65.2	pCi/Filter	100		70	130	6.4	24.7	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Rare Element Resources Inc

Project: Upton

Report Date: 11/01/12

Work Order: G12100317

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0									Batch: 35430
Sample ID: G12100317-010BMS	Sample Matrix Spike					Run: ALPHANALYST_121023A			10/24/12 16:14
Thorium 230	106	pCi/Filter	102		70	130			
Sample ID: G12100317-010BMSD	Sample Matrix Spike Duplicate					Run: ALPHANALYST_121023A			10/24/12 16:14
Thorium 230	108	pCi/Filter	104		70	130	2.5	30.3	
Sample ID: LCS-35430	Laboratory Control Sample					Run: ALPHANALYST_121023A			10/24/12 16:15
Thorium 230	10.9	pCi/Filter	111		80	120			
Sample ID: MB-35430	Method Blank					Run: ALPHANALYST_121023A			10/24/12 16:15
Thorium 230	0.07	pCi/Filter							U
Thorium 230 precision (\pm)	0.1	pCi/Filter							
Thorium 230 MDC	0.2	pCi/Filter							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

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U - Not detected at minimum detectable concentration

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

G12100317

Login completed by: Amanda Alley

Date Received: 10/11/2012

Reviewed by: BL2000\kscottruff

Received by: mav

Reviewed Date: 10/12/2012

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

