



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

Page 1 of 1

All shaded fields must be completed.

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#WEB

Client Name Crow Butte Resources				Project Identification Marsland Expansion Area				Sampler (Signature/Attestation of Authenticity) Rhonda Grantham				Telephone # (308) 665-2215 ext 115															
Report Address PO Box 169 Crawford, NE 69339				Contact Name Rhonda Grantham				ANALYSES / PARAMETERS								REMARKS											
Invoice Address same				Email Rhonda_Grantham@cameco.com																							
Phone (308) 665-2215 ext. 115				Purchase Order # 32258-000 OP													Quote # CR1106101										
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	Uranium-Natural	Radium-226	Lead-210	Thorium-230																	
1	31204105-001			MA-1	FT	1	X	X	X	X					To be analyzed as per												
2	002			MA-2	FT	1	X	X	X	X					Reg. Guide 4.14												
3	003			MA-3	FT	1	X	X	X	X																	
4	004			MA-4	FT	1	X	X	X	X																	
5	005			MA-5	FT	1	X	X	X	X					MUST ACHIEVE												
6															REG. GUIDE 4.14												
7															DETECTION LIMITS												
8																											
9																											
10				1st Quarter, 2012 Environmental																							
11				Air Sampling Composites											Report Results												
12															Prior To:												
13															2-May-12												
14																											
LAB COMMENTS				Relinquished By (Signature/Printed)				DATE				TIME				Received By (Signature/Printed)				DATE				TIME			
				Rhonda Grantham				04/04/12								4-9-12				15:51							
				Cole Estham				04/9/12				15:50															
SHIPPING INFO				MATRIX CODES				TURN AROUND TIMES				COMPLIANCE INFORMATION				ADDITIONAL REMARKS											
<input type="checkbox"/> UPS				Water WT				<input type="checkbox"/> Check desired service				Compliance Monitoring ? Y / N															
<input type="checkbox"/> FedEx				Soil SL				<input checked="" type="checkbox"/> Standard turnaround				Program (SDWA, NPDES,...)				Sample Air Volumes Attached											
<input type="checkbox"/> USPS				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				Sampling Interval: 1/4/12 - 4/2/12											
<input type="checkbox"/> Other				Other OT				Rush & Urgent Surcharges will be applied				Sample Disposal: Lab X Client															

Environmental Air Sampling

Marsland Expansion Area

Pump #	11114	Pump Location	MA-1
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Date	Volume (liters)
1/18/2012	997585
2/1/2012	1.00E+06
2/15/2012	9.97E+05
2/29/2012	1.00E+06
3/21/2012	1.48E+06
4/2/2012	8.60E+05
Total Volume (liter)	6334637

Environmental Air Sampling

Marsland Expansion Area

Pump #	11110	Pump Location	MA-2
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Date	Volume (liters)
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1/18/2012	998997
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2/1/2012	1.00E+06
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2/15/2012	9.98E+05
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2/29/2012	1.00E+06
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3/21/2012	1.48E+06
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4/2/2012	8.60E+05
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Total Volume (liter)	6337547
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Environmental Air Sampling

Marsland Expansion Area

Pump #	11111	Pump Location	MA-3
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Date	Volume (liters)
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1/18/2012	998832
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2/1/2012	1.00E+06
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2/15/2012	9.95E+05
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2/29/2012	1.00E+06
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3/21/2012	1.47E+06
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4/2/2012	8.58E+05
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Total Volume (liters)	6322001
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Environmental Air Sampling

Marsland Expansion Area

Pump #	11115	Pump Location	MA-4
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Date	Volume (liters)
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1/18/2012	996713
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2/1/2012	1.00E+06
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2/15/2012	995079
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2/29/2012	1.00E+06
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3/21/2012	1.48E+06
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4/2/2012	8.62E+05
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Total Volume (liters)	6333500
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Environmental Air Sampling

Marsland Expansion Area

Pump #	11107	Pump Location	MA-5
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Date	Volume (liters)
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1/18/2012	1.00E+06
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2/1/2012	1.00E+06
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2/15/2012	997645
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2/29/2012	1.00E+06
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3/21/2012	1.48E+06
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4/2/2012	8.61E+05
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Total Volume (liters)	6338171
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**Date:** 5/1/2015**CLIENT:** Cameco Resources, Crow Butte Operation**Project:** Marsland Expansion Area**Lab Order:** S1204105**CASE NARRATIVE****Report ID:** S1204105002

(Replaces S1204105001)

Samples MA-1, MA-2, MA-3, MA-4, and MA-5 were received on April 9, 2012.

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

NRC radiological air particulate filters, animal, vegetation, soil and sediment samples may be composited by date and location per client's monitoring program requirements. Highly carbonaceous samples may require ashing. Samples are subjected to a modified USEPA SW-846 Method 3050B mineral acid digestion as appropriate. Analysis of the resulting solutions and digestates is performed using approved TNI, USEPA, and industry recognized analytical techniques. Where client-provided air volumes corresponding to the air filter composites exist, aqueous digestate results are converted to radiological particulate concentrations in air (e.g. $\mu\text{Ci/mL}$). Quality control parameters acceptance criteria are defined by USEPA programs, and in USNRC Regulatory Guide 4.14 (Radiological Effluent and Environmental Monitoring at Uranium Mills), USNRC Regulatory Guide 4.15 (Quality Assurance for Radiological Monitoring Programs – Effluent Streams and the Environment), the TNI Standard EL-V1-2009, and Inter-Mountain Labs internal quality procedures.

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 5/18/2012
Report ID: S1204105001

ProjectName: Marsland Expansion Area
Lab ID: S1204105-001
ClientSample ID: MA-1
COC:

WorkOrder: S1204105
CollectionDate: 1/18/2012
DateReceived: 4/9/2012 3:51:00 PM
FieldSampler: RG
Matrix: Filter

Comments Sampled 1/4/12 to 4/2/12 (2012 1st Qtr)

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Actual Volume	6334637	Liters			Field	01/18/2012 000
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Radionuclides - Filter

Lead 210	115	pCi/Filter		2	OTW01	04/26/2012 1154	SH
Lead 210 Precision (±)	7.5	pCi/Filter			OTW01	04/26/2012 1154	SH
Lead 210	1.8E-14	µCi/mL		2.0E-15	Calculation	05/18/2012 1304	WN
Lead 210 Precision (±)	1.2E-15	µCi/mL			Calculation	05/18/2012 1304	WN
Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	04/23/2012 1210	SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	04/23/2012 1210	SH
Radium 226	ND	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN
Radium 226 Precision (±)	NA	µCi/mL			Calculation	05/18/2012 1304	WN
Thorium 230	ND	pCi/Filter		0.2	ACW10	04/19/2012 1335	WL
Thorium 230 Precision (±)	NA	pCi/Filter			ACW10	04/19/2012 1335	WL
Thorium 230	ND	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN
Thorium 230 Precision (±)	NA	µCi/mL			Calculation	05/18/2012 1304	WN
Thorium-229 Tracer (30-120)	81.0	%		0.2	ACW10	04/19/2012 1335	WL
Uranium	1.4	pCi/Filter		0.3	EPA 200.8	04/12/2012 1032	MS
Uranium	2.3E-16	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN

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: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 5/18/2012
Report ID: S1204105001

ProjectName: Marsland Expansion Area
Lab ID: S1204105-002
ClientSample ID: MA-2
COC:

WorkOrder: S1204105
CollectionDate: 1/18/2012
DateReceived: 4/9/2012 3:51:00 PM
FieldSampler: RG
Matrix: Filter

Comments Sampled 1/4/12 to 4/2/12 (2012 1st Qtr)

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Actual Volume	6337547	Liters			Field	01/18/2012 000
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Radionuclides - Filter

Lead 210	108	pCi/Filter		2	OTW01	04/26/2012 1154	SH
Lead 210 Precision (±)	7.7	pCi/Filter			OTW01	04/26/2012 1154	SH
Lead 210	1.7E-14	µCi/mL		2.0E-15	Calculation	05/18/2012 1304	WN
Lead 210 Precision (±)	1.2E-15	µCi/mL			Calculation	05/18/2012 1304	WN
Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	04/23/2012 1210	SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	04/23/2012 1210	SH
Radium 226	ND	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN
Radium 226 Precision (±)	NA	µCi/mL			Calculation	05/18/2012 1304	WN
Thorium 230	ND	pCi/Filter		0.2	ACW10	04/19/2012 1335	WL
Thorium 230 Precision (±)	NA	pCi/Filter			ACW10	04/19/2012 1335	WL
Thorium 230	ND	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN
Thorium 230 Precision (±)	NA	µCi/mL			Calculation	05/18/2012 1304	WN
Thorium-229 Tracer (30-120)	79.8	%		0.2	ACW10	04/19/2012 1335	WL
Uranium	1.8	pCi/Filter		0.3	EPA 200.8	04/12/2012 1051	MS
Uranium	2.8E-16	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN

These results apply only to the samples tested.**RL - Reporting Limit**

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

- 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: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 5/18/2012
Report ID: S1204105001

ProjectName: Marsland Expansion Area
Lab ID: S1204105-003
ClientSample ID: MA-3
COC:

WorkOrder: S1204105
CollectionDate: 1/18/2012
DateReceived: 4/9/2012 3:51:00 PM
FieldSampler: RG
Matrix: Filter

Comments Sampled 1/4/12 to 4/2/12 (2012 1st Qtr)

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Actual Volume	6322001	Liters			Field	01/18/2012 000
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Radionuclides - Filter

Lead 210	109	pCi/Filter		2	OTW01	04/27/2012 1218	SH
Lead 210 Precision (±)	7.0	pCi/Filter			OTW01	04/27/2012 1218	SH
Lead 210	1.7E-14	µCi/mL		2.0E-15	Calculation	05/18/2012 1304	WN
Lead 210 Precision (±)	1.1E-15	µCi/mL			Calculation	05/18/2012 1304	WN
Radium 226	0.6	pCi/Filter		0.3	SM 7500RAB	04/23/2012 1210	SH
Radium 226 Precision (±)	0.2	pCi/Filter			SM 7500RAB	04/23/2012 1210	SH
Radium 226	1.0E-16	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN
Radium 226 Precision (±)	3.2E-17	µCi/mL			Calculation	05/18/2012 1304	WN
Thorium 230	1.0	pCi/Filter		0.2	ACW10	04/19/2012 1335	WL
Thorium 230 Precision (±)	0.4	pCi/Filter			ACW10	04/19/2012 1335	WL
Thorium 230	1.5E-16	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN
Thorium 230 Precision (±)	6.3E-17	µCi/mL			Calculation	05/18/2012 1304	WN
Thorium-229 Tracer (30-120)	79.6	%		0.2	ACW10	04/19/2012 1335	WL
Uranium	1.9	pCi/Filter		0.3	EPA 200.8	04/12/2012 1056	MS
Uranium	2.9E-16	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN

These results apply only to the samples tested.**RL - Reporting Limit**

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

- 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: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 5/18/2012
Report ID: S1204105001

ProjectName: Marsland Expansion Area
Lab ID: S1204105-004
ClientSample ID: MA-4
COC:

WorkOrder: S1204105
CollectionDate: 1/18/2012
DateReceived: 4/9/2012 3:51:00 PM
FieldSampler: RG
Matrix: Filter

Comments Sampled 1/4/12 to 4/2/12 (2012 1st Qtr)

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Actual Volume	6333500	Liters			Field	01/18/2012 000
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Radionuclides - Filter

Lead 210	120	pCi/Filter		2	OTW01	04/27/2012 1218	SH
Lead 210 Precision (±)	7.9	pCi/Filter			OTW01	04/27/2012 1218	SH
Lead 210	1.9E-14	µCi/mL		2.0E-15	Calculation	05/18/2012 1304	WN
Lead 210 Precision (±)	1.2E-15	µCi/mL			Calculation	05/18/2012 1304	WN
Radium 226	0.4	pCi/Filter		0.3	SM 7500RAB	04/23/2012 1210	SH
Radium 226 Precision (±)	0.1	pCi/Filter			SM 7500RAB	04/23/2012 1210	SH
Radium 226	ND	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN
Radium 226 Precision (±)	NA	µCi/mL			Calculation	05/18/2012 1304	WN
Thorium 230	0.3	pCi/Filter		0.2	ACW10	04/19/2012 1335	WL
Thorium 230 Precision (±)	0.2	pCi/Filter			ACW10	04/19/2012 1335	WL
Thorium 230	ND	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN
Thorium 230 Precision (±)	NA	µCi/mL			Calculation	05/18/2012 1304	WN
Thorium-229 Tracer (30-120)	80	%		0	ACW10	04/19/2012 1335	WL
Uranium	1.6	pCi/Filter		0.3	EPA 200.8	04/12/2012 1111	MS
Uranium	2.5E-16	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN

These results apply only to the samples tested.**RL - Reporting Limit**

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

- 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: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 5/18/2012
Report ID: S1204105001

ProjectName: Marsland Expansion Area
Lab ID: S1204105-005
ClientSample ID: MA-5
COC:

WorkOrder: S1204105
CollectionDate: 1/18/2012
DateReceived: 4/9/2012 3:51:00 PM
FieldSampler: RG
Matrix: Filter

Comments Sampled 1/4/12 to 4/2/12 (2012 1st Qtr)

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Actual Volume	6338171	Liters			Field	01/18/2012 000
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Radionuclides - Filter

Lead 210	116	pCi/Filter		2	OTW01	04/27/2012 1218	SH
Lead 210 Precision (±)	7.2	pCi/Filter			OTW01	04/27/2012 1218	SH
Lead 210	1.8E-14	µCi/mL		2.0E-15	Calculation	05/18/2012 1304	WN
Lead 210 Precision (±)	1.1E-15	µCi/mL			Calculation	05/18/2012 1304	WN
Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	04/23/2012 1210	SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	04/23/2012 1210	SH
Radium 226	ND	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN
Radium 226 Precision (±)	NA	µCi/mL			Calculation	05/18/2012 1304	WN
Thorium 230	0.2	pCi/Filter		0.2	ACW10	04/19/2012 1335	WL
Thorium 230 Precision (±)	0.2	pCi/Filter			ACW10	04/19/2012 1335	WL
Thorium 230	ND	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN
Thorium 230 Precision (±)	NA	µCi/mL			Calculation	05/18/2012 1304	WN
Thorium-229 Tracer (30-120)	86.7	%		0.2	ACW10	04/19/2012 1335	WL
Uranium	1.4	pCi/Filter		0.3	EPA 200.8	04/12/2012 1116	MS
Uranium	2.2E-16	µCi/mL		1.0E-16	Calculation	05/18/2012 1304	WN

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

**Air Filter Summary Report****Client: Cameco Resources, Crow Butte Operation****Client Sample ID: MA-1****Lab ID: S1204105-001****Sampled 1/4/12 to 4/2/12 (2012 1st Qtr)****Sample Air Volume: 6334637 Liters**

Analyte	Result pCi/filter	Precision ± pCi/filter	Result µCi/ml	Precision ± µCi/ml	RL	10 CFR Pt 20 Effluent Limit	Effluent Class	% Effluent Conc.
Lead 210	115	7.5	2E-14	1E-15	2E-15	6 E-13	Day	3.33
Radium 226	<0.3		<1E-16		1E-16	9 E-13	Week	0.00
Thorium 230	<0.2		<1E-16		1E-16	3 E-14	Year	0.00
Uranium	1.4		2E-16		1E-16	9 E-14	Year	0.22

**Air Filter Summary Report****Client: Cameco Resources, Crow Butte Operation****Client Sample ID: MA-2**

Lab ID: S1204105-002			Sampled 1/4/12 to 4/2/12 (2012 1st Qtr)					
			Sample Air Volume: 6337547 Liters					
Analyte	Result pCi/filter	Precision ± pCi/filter	Result µCi/ml	Precision ± µCi/ml	RL	10 CFR Pt 20 Effluent Limit	Effluent Class	% Effluent Conc.
Lead 210	108	7.7	2E-14	1E-15	2E-15	6 E-13	Day	3.33
Radium 226	<0.3		<1E-16		1E-16	9 E-13	Week	0.00
Thorium 230	<0.2		<1E-16		1E-16	3 E-14	Year	0.00
Uranium	1.8		3E-16		1E-16	9 E-14	Year	0.33

**Air Filter Summary Report****Client: Cameco Resources, Crow Butte Operation****Client Sample ID: MA-3****Lab ID: S1204105-003****Sampled 1/4/12 to 4/2/12 (2012 1st Qtr)****Sample Air Volume: 6322001 Liters**

Analyte	Result pCi/filter	Precision ± pCi/filter	Result µCi/ml	Precision ± µCi/ml	RL	10 CFR Pt 20 Effluent Limit	Effluent Class	% Effluent Conc.
Lead 210	109	7.0	2E-14	1E-15	2E-15	6 E-13	Day	3.33
Radium 226	0.6	0.2	1E-16	3E-17	1E-16	9 E-13	Week	0.01
Thorium 230	1.0	0.4	2E-16	6E-17	1E-16	3 E-14	Year	0.67
Uranium	1.9		3E-16		1E-16	9 E-14	Year	0.33

**Air Filter Summary Report****Client: Cameco Resources, Crow Butte Operation****Client Sample ID: MA-4****Lab ID: S1204105-004****Sampled 1/4/12 to 4/2/12 (2012 1st Qtr)****Sample Air Volume: 6333500 Liters**

Analyte	Result pCi/filter	Precision ± pCi/filter	Result µCi/ml	Precision ± µCi/ml	RL	10 CFR Pt 20 Effluent Limit	Effluent Class	% Effluent Conc.
Lead 210	120	7.9	2E-14	1E-15	2E-15	6 E-13	Day	3.33
Radium 226	0.4	0.1	<1E-16		1E-16	9 E-13	Week	0.00
Thorium 230	0.3	0.2	<1E-16		1E-16	3 E-14	Year	0.00
Uranium	1.6		3E-16		1E-16	9 E-14	Year	0.33

**Air Filter Summary Report****Client: Cameco Resources, Crow Butte Operation****Client Sample ID: MA-5**

Lab ID: S1204105-005 Sampled 1/4/12 to 4/2/12 (2012 1st Qtr)					Sample Air Volume: 6338171 Liters			
Analyte	Result pCi/filter	Precision ± pCi/filter	Result µCi/ml	Precision ± µCi/ml	RL	10 CFR Pt 20 Effluent Limit	Effluent Class	% Effluent Conc.
Lead 210	116	7.2	2E-14	1E-15	2E-15	6 E-13	Day	3.33
Radium 226	<0.3		<1E-16		1E-16	9 E-13	Week	0.00
Thorium 230	0.2	0.2	<1E-16		1E-16	3 E-14	Year	0.00
Uranium	1.4		2E-16		1E-16	9 E-14	Year	0.22

**ANALYTICAL QC SUMMARY REPORT****CLIENT:** Cameco Resources, Crow Butte Operation**Date:** 5/18/2012**Work Order:** S1204105**Report ID:** S1204105001**Project:** Marsland Expansion Area**Uranium, Air Filter Analysis**Sample Type **MBLK** Units: pCi/Filter

Sample ID	RunNo: 81642	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
BLK	04/12/12 10:22	Uranium	ND	0.3					

Sample Type **LCS** Units: pCi/Filter

Sample ID	RunNo: 81642	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS	04/12/12 10:18	Uranium	72.0	0.3	67.7		106	85 - 115	

Sample Type **MS** Units: pCi/Filter

Sample ID	RunNo: 81642	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1204105-001AS	04/12/12 10:42	Uranium	3980	0.3	3720	1.4	107	70 - 130	

Sample ID	RunNo: 81642	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1204106-006AS	04/12/12 11:56	Uranium	3800	0.3	3720	2.0	102	70 - 130	

Sample Type **MSD** Units: pCi/Filter

Sample ID	RunNo: 81642	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1204105-001AMSD	04/12/12 10:47	Uranium	3830	0.3	3980	3.66		20	

Sample ID	RunNo: 81642	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1204106-006AMSD	04/12/12 12:11	Uranium	4040	0.3	3800	6.28		20	

Sample Type **DUP** Units: pCi/Filter

Sample ID	RunNo: 81642	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1204105-001AD	04/12/12 10:37	Uranium	1.4	0.3	1.4	6.01		20	

Sample ID	RunNo: 81642	Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
S1204106-006AD	04/12/12 11:51	Uranium	2.0	0.3	2.0	0.269		20	

Qualifiers:

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
O Outside the Range of Dilutions
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT****CLIENT:** Cameco Resources, Crow Butte Operation**Date:** 5/18/2012**Work Order:** S1204105**Report ID:** S1204105001**Project:** Marsland Expansion Area**Lead 210 in Filters**Sample Type **MBLK**

Units: pCi/Filter

Sample ID	RunNo: 82232	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-108	04/27/12 15:51	Lead 210	ND	2					

Sample Type **LCS**

Units: pCi/Filter

Sample ID	RunNo: 82232	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-108	04/26/12 11:54	Lead 210	16	2	12.7		123	70 - 130	

Sample Type **MS**

Units: pCi/Filter

Sample ID	RunNo: 82232	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
TAP WATER MS	04/26/12 11:54	Lead 210	13	2	12.7	ND	93.2	70 - 130	

Sample Type **MSD**

Units: pCi/Filter

Sample ID	RunNo: 82232	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
TAP WATER MSD	04/26/12 11:54	Lead 210	14	2	13	9.74		30	

Radium 226 Air Filter AnalysisSample Type **MBLK**

Units: pCi/Filter

Sample ID	RunNo: 82003	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-107	04/23/12 12:10	Radium 226	ND	0.3					

Sample Type **LCS**

Units: pCi/Filter

Sample ID	RunNo: 82003	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-107	04/23/12 12:10	Radium 226	5.6	0.3	5.06		111	70 - 130	

Sample Type **MS**

Units: pCi/Filter

Sample ID	RunNo: 82003	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
TAP WATER MS	04/23/12 14:14	Radium 226	5.4	0.3	5.06	ND	106	70 - 130	

Sample Type **MSD**

Units: pCi/Filter

Sample ID	RunNo: 82003	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
TAP WATER MSD	04/23/12 14:14	Radium 226	5.5	0.3	5.4	1.94		30	

Qualifiers:

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
O Outside the Range of Dilutions
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT****CLIENT:** Cameco Resources, Crow Butte Operation**Date:** 5/18/2012**Work Order:** S1204105**Report ID:** S1204105001**Project:** Marsland Expansion Area**Thorium Air Filter Analysis**Sample Type **MBLK** Units: pCi/Filter

Sample ID	RunNo: 81978	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
MB12-107	04/19/12 13:35	Thorium-230	ND	0.2					

Sample Type **LCS** Units: pCi/Filter

Sample ID	RunNo: 81978	Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
LCS12-107	04/19/12 13:35	Thorium-230	11.8	0.2	12.5		94.7	70 - 130	

Sample Type **LCSD** Units: pCi/Filter

Sample ID	RunNo: 81978	Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
LCS12-107 DUP	04/19/12 13:35	Thorium-230	14.2	0.2	11.8	ND	113	30	

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- O Outside the Range of Dilutions
- S Spike Recovery outside accepted recovery limits

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits