



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

Page **1** of **2**

All shaded fields must be completed.
This is a legal document: any misrepresentation may be construed as fraud.

155493

Client Name cameco Resources		Project Identification MU1 GL8		Sampler (Signature/Attestation of Authenticity) <i>Kathy Amos</i>		Telephone # 307 358 6541 x465	
Report Address PO Box 1210 Glenrock WY 82137		Contact Name Larry Wilbanks		ANALYSES / PARAMETERS			
Invoice Address		Email Larry.Wilbanks@cameco.com					
		Phone 307 359 6541 x427		Purchase Order # 4506458888		Quote #	

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS				Filtered & Preserved in Field	
							876 ML			Cooler Temp		
1	1503221	3-16-15	759	B-001	WT	7	X			2.0		
2	002		801	B-002						2.0		
3	003		803	B-003						2.0		
4	004		820	B-004						2.1		
5	005		830	B-005						2.1		
6	006		840	B-006						2.1		
7	007		915	B-007						2.3		
8	008		932	B-008						1.1		
9	009		1005	B-009						1.1		
10	010		1007	B-010						1.1		
11	011		1020	B-011						2.4		
12	012		1030	B-012						2.4		
13	013		1125	B-013						2.4		
14	014		1135	B-014						2.4		

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	<i>Kathy Amos</i> Kathy Amos	3/16/15	1200	<i>Ken Garbente</i> Ken Garbente	3/16/15	1257
	<i>Ken Garbente</i> Ken Garbente	3/16/15	1630	<i>Kathy Poap</i> Kathy Poap	3.17.15	1011:32 KS 3/17.15

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input checked="" type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	Water WT Soil SL Solid SD Filter FT Other OT	<input type="checkbox"/> Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>	Compliance Monitoring? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Sample Disposal: Lab _____ Client _____	



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

Client Name Cameco Resources		Project Identification MU1 GLB		Sampler (Signature/Attestation of Authenticity) <i>Kathy Arno</i>		Telephone # 307 358 6541 x 465	
Report Address PO Box 1210 Glenrock WY 82637		Contact Name Larry Wilbanks		ANALYSES / PARAMETERS			
Invoice Address		Email Larry.Wilbanks@cameco.com					
		Phone 307 358 6541 x 427					
		Purchase Order # 4500458888		Quote #			

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS						REMARKS
							876008					cooler Temp	
1	SI 50321015	3-16-15	832	B-015	WT	7	X					2.2	Filtered + Preserved in field
2	016		925	B-016								2.3	
3	017		934	B-017								2.2	
4	018		1040	B-018								2.4	
5	019		836	B-019								2.2	
6													
7													
8													
9													
10													
11													
12													
13													
14													

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	<i>Kathy Arno</i> Kathy Arno	3-16-15	12:00	<i>Ken Garoutte</i> Ken GAROUTTE	3/16/15	12:57
	<i>Ken Garoutte</i> Ken GAROUTTE	3/16/15	16:30	<i>Kathy Brown</i> Kathy Brown	3-17-15	11:32

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input checked="" type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	Water WT Soil SL Solid SD Filter FT Other OT	<input type="checkbox"/> Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>	Compliance Monitoring? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N Program (SDWA, NPDES,...) PWSID / Permit # _____ Chlorinated? <input type="checkbox"/> Y / <input checked="" type="checkbox"/> N Sample Disposal: Lab _____ Client _____	



Date: 4/9/2015

CLIENT: Power Resources (Cameco)
Project: MU1 GL8
Lab Order: S1503221

CASE NARRATIVE
Report ID: S1503221001

Samples B-001, B-002, B-003, B-004, B-005, B-006, B-007, B-008, B-009, B-010, B-011, B-012, B-013, B-014, B-015, B-016, B-017, B-018, and B-019 were received on March 17, 2015.

All samples were received and analyzed within the EPA recommended holding times, except those noted below 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.

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-001
ClientSample ID: B-001
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 7:59:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum, etc.).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: 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 or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

- 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

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-001
ClientSample ID: B-001
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 7:59:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1048	DG
Arsenic	0.019	mg/L		0.001	EPA 200.8	03/17/2015 2352	MS
Barium	ND	mg/L		0.1	EPA 200.8	03/17/2015 2352	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1048	DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1048	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/17/2015 2352	MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1048	DG
Copper	ND	mg/L		0.01	EPA 200.8	03/17/2015 2352	MS
Iron	2.42	mg/L		0.05	EPA 200.7	03/19/2015 1048	DG
Lead	ND	mg/L		0.01	EPA 200.8	03/17/2015 2352	MS
Manganese	0.08	mg/L		0.01	EPA 200.7	03/19/2015 1048	DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1136	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/17/2015 2352	MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1048	DG
Selenium	0.004	mg/L		0.001	EPA 200.8	03/17/2015 2352	MS
Uranium	0.0286	mg/L		0.0003	EPA 200.8	03/17/2015 2352	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/17/2015 2352	MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1048	DG

Metals - Total

Iron	2.70	mg/L		0.05	EPA 200.7	03/19/2015 1526	DG
Manganese	0.08	mg/L		0.01	EPA 200.7	03/19/2015 1526	DG

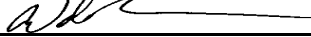
Radionuclides - Dissolved

Gross Alpha	574	pCi/L		2	SM 7110B	03/31/2015 1417	MB
Gross Alpha Precision (±)	10.9	pCi/L			SM 7110B	03/31/2015 1417	MB
Gross Beta	284	pCi/L		3	SM 7110B	03/31/2015 1417	MB
Gross Beta Precision (±)	5.8	pCi/L			SM 7110B	03/31/2015 1417	MB
Radium 226	236	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 1505	MB
Radium 226 Precision (±)	2.0	pCi/L			SM 7500 Ra-B	04/06/2015 1505	MB
Radium 228	3.4	pCi/L		1	Ga-Tech	04/03/2015 916	MB
Radium 228 Precision (±)	1.6	pCi/L			Ga-Tech	04/03/2015 916	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-002
ClientSample ID: B-002
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:01:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum, etc.).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: 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 or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

- 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

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-002
ClientSample ID: B-002
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:01:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1050 DG
Arsenic	0.007	mg/L		0.001	EPA 200.8	03/17/2015 2357 MS
Barium	ND	mg/L		0.1	EPA 200.8	03/17/2015 2357 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1050 DG
Boron	0.1	mg/L		0.1	EPA 200.7	03/19/2015 1050 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/17/2015 2357 MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1050 DG
Copper	ND	mg/L		0.01	EPA 200.8	03/17/2015 2357 MS
Iron	0.55	mg/L		0.05	EPA 200.7	03/19/2015 1050 DG
Lead	ND	mg/L		0.01	EPA 200.8	03/17/2015 2357 MS
Manganese	0.08	mg/L		0.01	EPA 200.7	03/19/2015 1050 DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1138 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/17/2015 2357 MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1050 DG
Selenium	0.014	mg/L		0.001	EPA 200.8	03/17/2015 2357 MS
Uranium	2.31	mg/L		0.0003	EPA 200.8	03/17/2015 2357 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/17/2015 2357 MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1050 DG

Metals - Total

Iron	0.62	mg/L		0.05	EPA 200.7	03/19/2015 1528 DG
Manganese	0.09	mg/L		0.01	EPA 200.7	03/19/2015 1528 DG

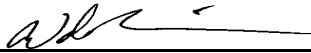
Radionuclides - Dissolved

Gross Alpha	1940	pCi/L		2	SM 7110B	03/31/2015 1417 MB
Gross Alpha Precision (±)	22.1	pCi/L			SM 7110B	03/31/2015 1417 MB
Gross Beta	821	pCi/L		3	SM 7110B	03/31/2015 1417 MB
Gross Beta Precision (±)	9.8	pCi/L			SM 7110B	03/31/2015 1417 MB
Radium 226	427	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 1505 MB
Radium 226 Precision (±)	2.8	pCi/L			SM 7500 Ra-B	04/06/2015 1505 MB
Radium 228	3.6	pCi/L		1	Ga-Tech	04/03/2015 1217 MB
Radium 228 Precision (±)	1.9	pCi/L			Ga-Tech	04/03/2015 1217 MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-003
ClientSample ID: B-003
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:03:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	134	mg/L		5	SM 2320B	03/18/2015 1415	BT
Alkalinity, Bicarbonate as HCO3	163	mg/L		5	SM 2320B	03/18/2015 1415	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	03/18/2015 1415	BT
Chloride	6	mg/L		1	EPA 300.0	03/17/2015 2307	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	03/18/2015 1415	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	03/23/2015 1441	AMB
Sulfate	111	mg/L		1	EPA 300.0	03/17/2015 2307	AB
Calcium	56	mg/L		1	EPA 200.7	03/19/2015 1052	DG
Magnesium	14	mg/L		1	EPA 200.7	03/19/2015 1052	DG
Potassium	7	mg/L		1	EPA 200.7	03/19/2015 1052	DG
Sodium	15	mg/L		1	EPA 200.7	03/19/2015 1052	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	03/19/2015 1332	LJK
Silica as SiO2	13	mg/L		1	EPA 200.7	03/19/2015 1052	DG
General Parameters							
pH	7.4	s.u.		0.1	SM 4500 H B	03/18/2015 1415	BT
Electrical Conductivity	509	µmhos/cm		5	SM 2510B	03/18/2015 1415	BT
Total Dissolved Solids (180)	320	mg/L		10	SM 2540	03/17/2015 1521	IR
Data Quality							
Cation Sum	4.76	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Anion Sum	5.17	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Cation-Anion Balance (± 5%)	4.06	%		0.01	SM 1030E	03/31/2015 1626	JJ
Solids, Total Dissolved (Calc)	300	mg/L		10	SM 1030E	03/31/2015 1626	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.07	dec. %		0.01	Calculation	04/09/2015 1347	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B Analyte detected in the associated Method Blank	C Calculated Value
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory
	M Value exceeds Monthly Ave or MCL or is less than LCL	ND Not Detected at the Reporting Limit
	O Outside the Range of Dilutions	S Spike Recovery outside accepted recovery limits
	X Matrix Effect	

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported: 4/9/2015
Report ID: S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-003
ClientSample ID: B-003
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:03:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1052 DG
Arsenic	0.014	mg/L		0.001	EPA 200.8	03/18/2015 003 MS
Barium	ND	mg/L		0.1	EPA 200.8	03/18/2015 003 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1052 DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1052 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/18/2015 003 MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1052 DG
Copper	ND	mg/L		0.01	EPA 200.8	03/18/2015 003 MS
Iron	4.99	mg/L		0.05	EPA 200.7	03/19/2015 1052 DG
Lead	ND	mg/L		0.01	EPA 200.8	03/18/2015 003 MS
Manganese	0.15	mg/L		0.01	EPA 200.7	03/19/2015 1052 DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1140 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/18/2015 003 MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1052 DG
Selenium	0.057	mg/L		0.001	EPA 200.8	03/18/2015 003 MS
Uranium	0.250	mg/L		0.0003	EPA 200.8	03/18/2015 003 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/18/2015 003 MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1052 DG

Metals - Total

Iron	5.27	mg/L		0.05	EPA 200.7	03/19/2015 1533 DG
Manganese	0.16	mg/L		0.01	EPA 200.7	03/19/2015 1533 DG

Radionuclides - Dissolved

Gross Alpha	2280	pCi/L		2	SM 7110B	04/01/2015 1634 MB
Gross Alpha Precision (±)	21.2	pCi/L			SM 7110B	04/01/2015 1634 MB
Gross Beta	1350	pCi/L		3	SM 7110B	04/01/2015 1634 MB
Gross Beta Precision (±)	11.9	pCi/L			SM 7110B	04/01/2015 1634 MB
Radium 226	938	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 1709 MB
Radium 226 Precision (±)	3.8	pCi/L			SM 7500 Ra-B	04/06/2015 1709 MB
Radium 228	8.0	pCi/L		1	Ga-Tech	04/03/2015 1518 MB
Radium 228 Precision (±)	2.6	pCi/L			Ga-Tech	04/03/2015 1518 MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-004
ClientSample ID: B-004
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:20:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum, etc.).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: 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 or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

- 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

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported: 4/9/2015
Report ID: S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-004
ClientSample ID: B-004
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:20:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1054 DG
Arsenic	0.032	mg/L		0.001	EPA 200.8	03/18/2015 008 MS
Barium	ND	mg/L		0.1	EPA 200.8	03/18/2015 008 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1054 DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1054 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/18/2015 008 MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1054 DG
Copper	ND	mg/L		0.01	EPA 200.8	03/18/2015 008 MS
Iron	2.29	mg/L		0.05	EPA 200.7	03/19/2015 1054 DG
Lead	ND	mg/L		0.01	EPA 200.8	03/18/2015 008 MS
Manganese	0.10	mg/L		0.01	EPA 200.7	03/19/2015 1054 DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1142 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/18/2015 008 MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1054 DG
Selenium	0.003	mg/L		0.001	EPA 200.8	03/18/2015 008 MS
Uranium	3.42	mg/L		0.0003	EPA 200.8	03/18/2015 008 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/18/2015 008 MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1054 DG

Metals - Total

Iron	2.55	mg/L		0.05	EPA 200.7	03/19/2015 1547 DG
Manganese	0.10	mg/L		0.01	EPA 200.7	03/19/2015 1547 DG

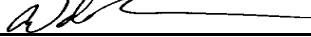
Radionuclides - Dissolved

Gross Alpha	3230	pCi/L		2	SM 7110B	04/01/2015 1634 MB
Gross Alpha Precision (±)	26.3	pCi/L			SM 7110B	04/01/2015 1634 MB
Gross Beta	1590	pCi/L		3	SM 7110B	04/01/2015 1634 MB
Gross Beta Precision (±)	12.8	pCi/L			SM 7110B	04/01/2015 1634 MB
Radium 226	641	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 1709 MB
Radium 226 Precision (±)	3.1	pCi/L			SM 7500 Ra-B	04/06/2015 1709 MB
Radium 228	17.4	pCi/L		1	Ga-Tech	04/03/2015 1819 MB
Radium 228 Precision (±)	2.2	pCi/L			Ga-Tech	04/03/2015 1819 MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-005
ClientSample ID: B-005
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:30:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	119	mg/L		5	SM 2320B	03/18/2015 1439	BT
Alkalinity, Bicarbonate as HCO3	146	mg/L		5	SM 2320B	03/18/2015 1439	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	03/18/2015 1439	BT
Chloride	8	mg/L		1	EPA 300.0	03/17/2015 2333	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	03/18/2015 1439	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	03/23/2015 1444	AMB
Sulfate	47	mg/L		1	EPA 300.0	03/17/2015 2333	AB
Calcium	38	mg/L		1	EPA 200.7	03/19/2015 1059	DG
Magnesium	10	mg/L		1	EPA 200.7	03/19/2015 1059	DG
Potassium	5	mg/L		1	EPA 200.7	03/19/2015 1059	DG
Sodium	11	mg/L		1	EPA 200.7	03/19/2015 1059	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	03/19/2015 1334	LJK
Silica as SiO2	12	mg/L		1	EPA 200.7	03/19/2015 1059	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	03/18/2015 1439	BT
Electrical Conductivity	362	µmhos/cm		5	SM 2510B	03/18/2015 1439	BT
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	03/17/2015 1523	IR
Data Quality							
Cation Sum	3.27	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Anion Sum	3.61	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Cation-Anion Balance (± 5%)	4.91	%		0.01	SM 1030E	03/31/2015 1626	JJ
Solids, Total Dissolved (Calc)	200	mg/L		10	SM 1030E	03/31/2015 1626	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.25	dec. %		0.01	Calculation	04/09/2015 1347	WN

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- 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 or is less than LCL
 - O Outside the Range of Dilutions
 - X Matrix Effect

- 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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-005
ClientSample ID: B-005
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:30:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1059 DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	03/18/2015 040 MS
Barium	ND	mg/L		0.1	EPA 200.8	03/18/2015 040 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1059 DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1059 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/18/2015 040 MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1059 DG
Copper	ND	mg/L		0.01	EPA 200.8	03/18/2015 040 MS
Iron	0.68	mg/L		0.05	EPA 200.7	03/19/2015 1059 DG
Lead	ND	mg/L		0.01	EPA 200.8	03/18/2015 040 MS
Manganese	0.06	mg/L		0.01	EPA 200.7	03/19/2015 1059 DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1152 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/18/2015 040 MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1059 DG
Selenium	0.026	mg/L		0.001	EPA 200.8	03/18/2015 040 MS
Uranium	0.221	mg/L		0.0003	EPA 200.8	03/18/2015 040 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/18/2015 040 MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1059 DG

Metals - Total

Iron	0.80	mg/L		0.05	EPA 200.7	03/19/2015 1549 DG
Manganese	0.06	mg/L		0.01	EPA 200.7	03/19/2015 1549 DG

Radionuclides - Dissolved

Gross Alpha	732	pCi/L		2	SM 7110B	04/01/2015 1634 MB
Gross Alpha Precision (±)	12.0	pCi/L			SM 7110B	04/01/2015 1634 MB
Gross Beta	374	pCi/L		3	SM 7110B	04/01/2015 1634 MB
Gross Beta Precision (±)	6.6	pCi/L			SM 7110B	04/01/2015 1634 MB
Radium 226	246	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 1709 MB
Radium 226 Precision (±)	2.0	pCi/L			SM 7500 Ra-B	04/06/2015 1709 MB
Radium 228	4.5	pCi/L		1	Ga-Tech	04/03/2015 2120 MB
Radium 228 Precision (±)	1.6	pCi/L			Ga-Tech	04/03/2015 2120 MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-006
ClientSample ID: B-006
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:40:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	162	mg/L		5	SM 2320B	03/18/2015 1451	BT
Alkalinity, Bicarbonate as HCO3	198	mg/L		5	SM 2320B	03/18/2015 1451	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	03/18/2015 1451	BT
Chloride	15	mg/L		1	EPA 300.0	03/17/2015 2347	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	03/18/2015 1451	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	03/25/2015 1343	AMB
Sulfate	115	mg/L		1	EPA 300.0	03/17/2015 2347	AB
Calcium	63	mg/L		1	EPA 200.7	03/19/2015 1112	DG
Magnesium	16	mg/L		1	EPA 200.7	03/19/2015 1112	DG
Potassium	7	mg/L		1	EPA 200.7	03/19/2015 1112	DG
Sodium	20	mg/L		1	EPA 200.7	03/19/2015 1112	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	03/19/2015 1336	LJK
Silica as SiO2	13	mg/L		1	EPA 200.7	03/19/2015 1112	DG
General Parameters							
pH	7.6	s.u.		0.1	SM 4500 H B	03/18/2015 1451	BT
Electrical Conductivity	585	µmhos/cm		5	SM 2510B	03/18/2015 1451	BT
Total Dissolved Solids (180)	390	mg/L		10	SM 2540	03/17/2015 1524	IR
Data Quality							
Cation Sum	5.52	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Anion Sum	6.06	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Cation-Anion Balance (± 5%)	4.67	%		0.01	SM 1030E	03/31/2015 1626	JJ
Solids, Total Dissolved (Calc)	350	mg/L		10	SM 1030E	03/31/2015 1626	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.11	dec. %		0.01	Calculation	04/09/2015 1347	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

- 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 or is less than LCL
- O Outside the Range of Dilutions
- X Matrix Effect

- 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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-006
ClientSample ID: B-006
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:40:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Vanadium, Zinc), Metals - Total (Iron, Manganese), and Radionuclides - Dissolved (Gross Alpha, Gross Alpha Precision, Gross Beta, Gross Beta Precision, Radium 226, Radium 226 Precision, Radium 228, Radium 228 Precision).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: 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 or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

- 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

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-007
ClientSample ID: B-007
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 9:15:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	166	mg/L		5	SM 2320B	03/18/2015 1503	BT
Alkalinity, Bicarbonate as HCO3	202	mg/L		5	SM 2320B	03/18/2015 1503	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	03/18/2015 1503	BT
Chloride	15	mg/L		1	EPA 300.0	03/18/2015 000	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	03/18/2015 1503	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	03/23/2015 1456	AMB
Sulfate	75	mg/L		1	EPA 300.0	03/18/2015 000	AB
Calcium	57	mg/L		1	EPA 200.7	03/19/2015 1114	DG
Magnesium	15	mg/L		1	EPA 200.7	03/19/2015 1114	DG
Potassium	7	mg/L		1	EPA 200.7	03/19/2015 1114	DG
Sodium	13	mg/L		1	EPA 200.7	03/19/2015 1114	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	03/19/2015 1337	LJK
Silica as SiO2	12	mg/L		1	EPA 200.7	03/19/2015 1114	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	03/18/2015 1503	BT
Electrical Conductivity	515	µmhos/cm		5	SM 2510B	03/18/2015 1503	BT
Total Dissolved Solids (180)	380	mg/L		10	SM 2540	03/17/2015 1525	IR
Data Quality							
Cation Sum	4.85	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Anion Sum	5.29	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Cation-Anion Balance (± 5%)	4.36	%		0.01	SM 1030E	03/31/2015 1626	JJ
Solids, Total Dissolved (Calc)	290	mg/L		10	SM 1030E	03/31/2015 1626	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.31	dec. %		0.01	Calculation	04/09/2015 1347	WN

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- 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 or is less than LCL
 - O Outside the Range of Dilutions
 - X Matrix Effect

- 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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-007
ClientSample ID: B-007
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 9:15:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1114 DG
Arsenic	0.008	mg/L		0.001	EPA 200.8	03/18/2015 051 MS
Barium	ND	mg/L		0.1	EPA 200.8	03/18/2015 051 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1114 DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1114 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/18/2015 051 MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1114 DG
Copper	ND	mg/L		0.01	EPA 200.8	03/18/2015 051 MS
Iron	1.09	mg/L		0.05	EPA 200.7	03/19/2015 1114 DG
Lead	ND	mg/L		0.01	EPA 200.8	03/18/2015 051 MS
Manganese	0.13	mg/L		0.01	EPA 200.7	03/19/2015 1114 DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1202 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/18/2015 051 MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1114 DG
Selenium	0.003	mg/L		0.001	EPA 200.8	03/18/2015 051 MS
Uranium	0.504	mg/L		0.0003	EPA 200.8	03/18/2015 051 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/18/2015 051 MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1114 DG

Metals - Total

Iron	1.21	mg/L		0.05	EPA 200.7	03/19/2015 1600 DG
Manganese	0.14	mg/L		0.01	EPA 200.7	03/19/2015 1600 DG

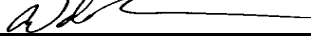
Radionuclides - Dissolved

Gross Alpha	1100	pCi/L		2	SM 7110B	04/01/2015 1634 MB
Gross Alpha Precision (±)	15.4	pCi/L			SM 7110B	04/01/2015 1634 MB
Gross Beta	625	pCi/L		3	SM 7110B	04/01/2015 1634 MB
Gross Beta Precision (±)	8.6	pCi/L			SM 7110B	04/01/2015 1634 MB
Radium 226	369	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 1709 MB
Radium 226 Precision (±)	2.5	pCi/L			SM 7500 Ra-B	04/06/2015 1709 MB
Radium 228	4.2	pCi/L		1	Ga-Tech	04/04/2015 322 MB
Radium 228 Precision (±)	2.0	pCi/L			Ga-Tech	04/04/2015 322 MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-008
ClientSample ID: B-008
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 9:32:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Anions/Cations

Alkalinity, Total (As CaCO3)	154	mg/L		5	SM 2320B	03/18/2015 1515 BT
Alkalinity, Bicarbonate as HCO3	188	mg/L		5	SM 2320B	03/18/2015 1515 BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	03/18/2015 1515 BT
Chloride	21	mg/L		1	EPA 300.0	03/18/2015 013 AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	03/18/2015 1515 BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	03/23/2015 1457 AMB
Sulfate	45	mg/L		1	EPA 300.0	03/18/2015 013 AB
Calcium	50	mg/L		1	EPA 200.7	03/19/2015 1117 DG
Magnesium	12	mg/L		1	EPA 200.7	03/19/2015 1117 DG
Potassium	6	mg/L		1	EPA 200.7	03/19/2015 1117 DG
Sodium	12	mg/L		1	EPA 200.7	03/19/2015 1117 DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	03/19/2015 1338 LJK
Silica as SiO2	11	mg/L		1	EPA 200.7	03/19/2015 1117 DG

General Parameters

pH	7.9	s.u.		0.1	SM 4500 H B	03/18/2015 1515 BT
Electrical Conductivity	455	µmhos/cm		5	SM 2510B	03/18/2015 1515 BT
Total Dissolved Solids (180)	320	mg/L		10	SM 2540	03/17/2015 1526 IR

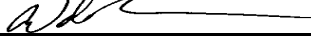
Data Quality

Cation Sum	4.17	meq/L		0.01	SM 1030E	03/31/2015 1626 JJ
Anion Sum	4.59	meq/L		0.01	SM 1030E	03/31/2015 1626 JJ
Cation-Anion Balance (± 5%)	4.88	%		0.01	SM 1030E	03/31/2015 1626 JJ
Solids, Total Dissolved (Calc)	250	mg/L		10	SM 1030E	03/31/2015 1626 JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.28	dec. %		0.01	Calculation	04/09/2015 1347 WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-008
ClientSample ID: B-008
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 9:32:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1117 DG
Arsenic	0.012	mg/L		0.001	EPA 200.8	03/18/2015 057 MS
Barium	ND	mg/L		0.1	EPA 200.8	03/18/2015 057 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1117 DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1117 DG
Cadmium	0.001	mg/L		0.001	EPA 200.8	03/18/2015 057 MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1117 DG
Copper	ND	mg/L		0.01	EPA 200.8	03/18/2015 057 MS
Iron	1.37	mg/L		0.05	EPA 200.7	03/19/2015 1117 DG
Lead	ND	mg/L		0.01	EPA 200.8	03/18/2015 057 MS
Manganese	0.07	mg/L		0.01	EPA 200.7	03/19/2015 1117 DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1204 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/18/2015 057 MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1117 DG
Selenium	0.060	mg/L		0.001	EPA 200.8	03/18/2015 057 MS
Uranium	0.460	mg/L		0.0003	EPA 200.8	03/18/2015 057 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/18/2015 057 MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1117 DG

Metals - Total

Iron	1.91	mg/L		0.05	EPA 200.7	03/19/2015 1603 DG
Manganese	0.08	mg/L		0.01	EPA 200.7	03/19/2015 1603 DG

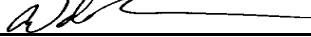
Radionuclides - Dissolved

Gross Alpha	1660	pCi/L		2	SM 7110B	04/01/2015 1634 MB
Gross Alpha Precision (±)	18.9	pCi/L			SM 7110B	04/01/2015 1634 MB
Gross Beta	891	pCi/L		3	SM 7110B	04/01/2015 1634 MB
Gross Beta Precision (±)	10.1	pCi/L			SM 7110B	04/01/2015 1634 MB
Radium 226	458	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 1709 MB
Radium 226 Precision (±)	2.6	pCi/L			SM 7500 Ra-B	04/06/2015 1709 MB
Radium 228	10.9	pCi/L		1	Ga-Tech	04/04/2015 623 MB
Radium 228 Precision (±)	2.0	pCi/L			Ga-Tech	04/04/2015 623 MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-009
ClientSample ID: B-009
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 10:05:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum, etc.).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: 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 or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

- 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

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-009
ClientSample ID: B-009
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 10:05:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1119 DG
Arsenic	0.025	mg/L		0.001	EPA 200.8	03/18/2015 102 MS
Barium	ND	mg/L		0.1	EPA 200.8	03/18/2015 102 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1119 DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1119 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/18/2015 102 MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1119 DG
Copper	ND	mg/L		0.01	EPA 200.8	03/18/2015 102 MS
Iron	3.46	mg/L		0.05	EPA 200.7	03/19/2015 1119 DG
Lead	ND	mg/L		0.01	EPA 200.8	03/18/2015 102 MS
Manganese	0.17	mg/L		0.01	EPA 200.7	03/19/2015 1119 DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1206 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/18/2015 102 MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1119 DG
Selenium	0.008	mg/L		0.001	EPA 200.8	03/18/2015 102 MS
Uranium	0.932	mg/L		0.0003	EPA 200.8	03/18/2015 102 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/18/2015 102 MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1119 DG

Metals - Total

Iron	3.95	mg/L		0.05	EPA 200.7	03/19/2015 1605 DG
Manganese	0.17	mg/L		0.01	EPA 200.7	03/19/2015 1605 DG

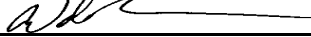
Radionuclides - Dissolved

Gross Alpha	979	pCi/L		2	SM 7110B	04/01/2015 1634 MB
Gross Alpha Precision (±)	14.9	pCi/L			SM 7110B	04/01/2015 1634 MB
Gross Beta	512	pCi/L		3	SM 7110B	04/01/2015 1634 MB
Gross Beta Precision (±)	7.7	pCi/L			SM 7110B	04/01/2015 1634 MB
Radium 226	227	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 1709 MB
Radium 226 Precision (±)	1.9	pCi/L			SM 7500 Ra-B	04/06/2015 1709 MB
Radium 228	2.7	pCi/L		1	Ga-Tech	04/04/2015 924 MB
Radium 228 Precision (±)	1.6	pCi/L			Ga-Tech	04/04/2015 924 MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-010
ClientSample ID: B-010
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 10:07:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	240	mg/L		5	SM 2320B	03/18/2015 1552	BT
Alkalinity, Bicarbonate as HCO3	293	mg/L		5	SM 2320B	03/18/2015 1552	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	03/18/2015 1552	BT
Chloride	25	mg/L		1	EPA 300.0	03/18/2015 200	AB
Fluoride	0.1	mg/L		0.1	SM 4500FC	03/18/2015 1552	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	03/23/2015 1500	AMB
Sulfate	138	mg/L		1	EPA 300.0	03/18/2015 200	AB
Calcium	101	mg/L		1	EPA 200.7	03/19/2015 1121	DG
Magnesium	24	mg/L		1	EPA 200.7	03/19/2015 1121	DG
Potassium	10	mg/L		1	EPA 200.7	03/19/2015 1121	DG
Sodium	19	mg/L		1	EPA 200.7	03/19/2015 1121	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	03/26/2015 1345	AMB
Silica as SiO2	13	mg/L		1	EPA 200.7	03/19/2015 1121	DG
General Parameters							
pH	7.9	s.u.		0.1	SM 4500 H B	03/18/2015 1552	BT
Electrical Conductivity	796	µmhos/cm		5	SM 2510B	03/18/2015 1552	BT
Total Dissolved Solids (180)	620	mg/L		10	SM 2540	03/17/2015 1528	IR
Data Quality							
Cation Sum	8.11	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Anion Sum	8.39	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Cation-Anion Balance (± 5%)	1.63	%		0.01	SM 1030E	03/31/2015 1626	JJ
Solids, Total Dissolved (Calc)	480	mg/L		10	SM 1030E	03/31/2015 1626	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.29	dec. %		0.01	Calculation	04/09/2015 1347	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B Analyte detected in the associated Method Blank	C Calculated Value
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory
	M Value exceeds Monthly Ave or MCL or is less than LCL	ND Not Detected at the Reporting Limit
	O Outside the Range of Dilutions	S Spike Recovery outside accepted recovery limits
	X Matrix Effect	

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-010
ClientSample ID: B-010
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 10:07:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1121	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	03/18/2015 107	MS
Barium	ND	mg/L		0.1	EPA 200.8	03/18/2015 107	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1121	DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1121	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/18/2015 107	MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1121	DG
Copper	ND	mg/L		0.01	EPA 200.8	03/18/2015 107	MS
Iron	0.45	mg/L		0.05	EPA 200.7	03/19/2015 1121	DG
Lead	ND	mg/L		0.01	EPA 200.8	03/18/2015 107	MS
Manganese	0.10	mg/L		0.01	EPA 200.7	03/19/2015 1121	DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1208	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/18/2015 107	MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1121	DG
Selenium	0.030	mg/L		0.001	EPA 200.8	03/18/2015 107	MS
Uranium	2.04	mg/L		0.0003	EPA 200.8	03/18/2015 107	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/18/2015 107	MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1121	DG
Metals - Total							
Iron	0.48	mg/L		0.05	EPA 200.7	03/19/2015 1607	DG
Manganese	0.10	mg/L		0.01	EPA 200.7	03/19/2015 1607	DG
Radionuclides - Dissolved							
Gross Alpha	2070	pCi/L		2	SM 7110B	04/01/2015 1634	MB
Gross Alpha Precision (±)	23.4	pCi/L			SM 7110B	04/01/2015 1634	MB
Gross Beta	978	pCi/L		3	SM 7110B	04/01/2015 1634	MB
Gross Beta Precision (±)	10.7	pCi/L			SM 7110B	04/01/2015 1634	MB
Radium 226	354	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 1709	MB
Radium 226 Precision (±)	2.3	pCi/L			SM 7500 Ra-B	04/06/2015 1709	MB
Radium 228	5.8	pCi/L		1	Ga-Tech	04/04/2015 1225	MB
Radium 228 Precision (±)	1.8	pCi/L			Ga-Tech	04/04/2015 1225	MB

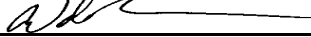
These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

- 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 or is less than LCL
- O Outside the Range of Dilutions
- X Matrix Effect

- 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

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-011
ClientSample ID: B-011
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 10:20:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: 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 or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

- 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

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-011
ClientSample ID: B-011
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 10:20:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1125 DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	03/18/2015 113 MS
Barium	ND	mg/L		0.1	EPA 200.8	03/18/2015 113 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1125 DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1125 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/18/2015 113 MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1125 DG
Copper	ND	mg/L		0.01	EPA 200.8	03/18/2015 113 MS
Iron	0.07	mg/L		0.05	EPA 200.7	03/19/2015 1125 DG
Lead	ND	mg/L		0.01	EPA 200.8	03/18/2015 113 MS
Manganese	0.05	mg/L		0.01	EPA 200.7	03/19/2015 1125 DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1210 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/18/2015 113 MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1125 DG
Selenium	0.005	mg/L		0.001	EPA 200.8	03/18/2015 113 MS
Uranium	1.40	mg/L		0.0003	EPA 200.8	03/18/2015 113 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/18/2015 113 MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1125 DG

Metals - Total

Iron	0.13	mg/L		0.05	EPA 200.7	03/19/2015 1616 DG
Manganese	0.06	mg/L		0.01	EPA 200.7	03/19/2015 1616 DG

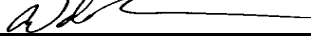
Radionuclides - Dissolved

Gross Alpha	1100	pCi/L		2	SM 7110B	04/01/2015 1634 MB
Gross Alpha Precision (±)	15.8	pCi/L			SM 7110B	04/01/2015 1634 MB
Gross Beta	610	pCi/L		3	SM 7110B	04/01/2015 1634 MB
Gross Beta Precision (±)	8.6	pCi/L			SM 7110B	04/01/2015 1634 MB
Radium 226	249	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 1710 MB
Radium 226 Precision (±)	2.3	pCi/L			SM 7500 Ra-B	04/06/2015 1710 MB
Radium 228	3.7	pCi/L		1	Ga-Tech	04/04/2015 1526 MB
Radium 228 Precision (±)	1.6	pCi/L			Ga-Tech	04/04/2015 1526 MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-012
ClientSample ID: B-012
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 10:30:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	138	mg/L		5	SM 2320B	03/18/2015 1639	BT
Alkalinity, Bicarbonate as HCO3	169	mg/L		5	SM 2320B	03/18/2015 1639	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	03/18/2015 1639	BT
Chloride	12	mg/L		1	EPA 300.0	03/18/2015 227	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	03/18/2015 1639	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	03/23/2015 1503	AMB
Sulfate	77	mg/L		1	EPA 300.0	03/18/2015 227	AB
Calcium	48	mg/L		1	EPA 200.7	03/19/2015 1130	DG
Magnesium	13	mg/L		1	EPA 200.7	03/19/2015 1130	DG
Potassium	7	mg/L		1	EPA 200.7	03/19/2015 1130	DG
Sodium	15	mg/L		1	EPA 200.7	03/19/2015 1130	DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	03/26/2015 1347	AMB
Silica as SiO2	11	mg/L		1	EPA 200.7	03/19/2015 1130	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	03/18/2015 1639	BT
Electrical Conductivity	468	µmhos/cm		5	SM 2510B	03/18/2015 1639	BT
Total Dissolved Solids (180)	310	mg/L		10	SM 2540	03/17/2015 1531	IR
Data Quality							
Cation Sum	4.26	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Anion Sum	4.70	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Cation-Anion Balance (± 5%)	4.92	%		0.01	SM 1030E	03/31/2015 1626	JJ
Solids, Total Dissolved (Calc)	270	mg/L		10	SM 1030E	03/31/2015 1626	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.15	dec. %		0.01	Calculation	04/09/2015 1347	WN

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- 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 or is less than LCL
 - O Outside the Range of Dilutions
 - X Matrix Effect

- 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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-012
ClientSample ID: B-012
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 10:30:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init

Metals - Dissolved

Table listing various metals (Aluminum, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Vanadium, Zinc) with their respective results, units, and reporting limits.

Metals - Total

Table listing total metals (Iron, Manganese) with their respective results and reporting limits.

Radionuclides - Dissolved

Table listing radionuclides (Gross Alpha, Gross Beta, Radium 226, Radium 228) with their respective results, units, and reporting limits.

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: 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 or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

- 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

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-013
ClientSample ID: B-013
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 11:25:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum, etc.).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: 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 or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

- 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

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-013
ClientSample ID: B-013
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 11:25:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1143	DG
Arsenic	0.008	mg/L		0.001	EPA 200.8	03/18/2015 124	MS
Barium	ND	mg/L		0.1	EPA 200.8	03/18/2015 124	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1143	DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1143	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/18/2015 124	MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1143	DG
Copper	ND	mg/L		0.01	EPA 200.8	03/18/2015 124	MS
Iron	1.75	mg/L		0.05	EPA 200.7	03/19/2015 1143	DG
Lead	ND	mg/L		0.01	EPA 200.8	03/18/2015 124	MS
Manganese	0.92	mg/L		0.01	EPA 200.7	03/19/2015 1143	DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1219	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/18/2015 124	MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1143	DG
Selenium	0.003	mg/L		0.001	EPA 200.8	03/18/2015 124	MS
Uranium	1.76	mg/L		0.0003	EPA 200.8	03/18/2015 124	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/18/2015 124	MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1143	DG
Metals - Total							
Iron	2.29	mg/L		0.05	EPA 200.7	03/19/2015 1621	DG
Manganese	1.01	mg/L		0.01	EPA 200.7	03/19/2015 1621	DG
Radionuclides - Dissolved							
Gross Alpha	2870	pCi/L		2	SM 7110B	04/02/2015 1046	MB
Gross Alpha Precision (±)	28.8	pCi/L			SM 7110B	04/02/2015 1046	MB
Gross Beta	1690	pCi/L		3	SM 7110B	04/02/2015 1046	MB
Gross Beta Precision (±)	13.4	pCi/L			SM 7110B	04/02/2015 1046	MB
Radium 226	1060	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 908	MB
Radium 226 Precision (±)	4.1	pCi/L			SM 7500 Ra-B	04/06/2015 908	MB
Radium 228	13.4	pCi/L		1	Ga-Tech	04/04/2015 2128	MB
Radium 228 Precision (±)	2.8	pCi/L			Ga-Tech	04/04/2015 2128	MB

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- 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 or is less than LCL
 - O Outside the Range of Dilutions
 - X Matrix Effect

- 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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-014
ClientSample ID: B-014
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 11:35:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

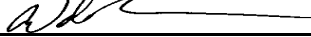
Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	141	mg/L		5	SM 2320B	03/18/2015 1703	BT
Alkalinity, Bicarbonate as HCO3	172	mg/L		5	SM 2320B	03/18/2015 1703	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	03/18/2015 1703	BT
Chloride	8	mg/L		1	EPA 300.0	03/18/2015 254	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	03/18/2015 1703	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	03/23/2015 1506	AMB
Sulfate	62	mg/L		1	EPA 300.0	03/18/2015 254	AB
Calcium	45	mg/L		1	EPA 200.7	03/19/2015 1145	DG
Magnesium	12	mg/L		1	EPA 200.7	03/19/2015 1145	DG
Potassium	7	mg/L		1	EPA 200.7	03/19/2015 1145	DG
Sodium	14	mg/L		1	EPA 200.7	03/19/2015 1145	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	03/26/2015 1350	AMB
Silica as SiO2	11	mg/L		1	EPA 200.7	03/19/2015 1145	DG
General Parameters							
pH	7.8	s.u.		0.1	SM 4500 H B	03/18/2015 1703	BT
Electrical Conductivity	423	µmhos/cm		5	SM 2510B	03/18/2015 1703	BT
Total Dissolved Solids (180)	290	mg/L		10	SM 2540	03/17/2015 1533	IR
Data Quality							
Cation Sum	3.96	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Anion Sum	4.33	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Cation-Anion Balance (± 5%)	4.38	%		0.01	SM 1030E	03/31/2015 1626	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	03/31/2015 1626	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.21	dec. %		0.01	Calculation	04/09/2015 1347	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B Analyte detected in the associated Method Blank	C Calculated Value
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory
	M Value exceeds Monthly Ave or MCL or is less than LCL	ND Not Detected at the Reporting Limit
	O Outside the Range of Dilutions	S Spike Recovery outside accepted recovery limits
	X Matrix Effect	

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-014
ClientSample ID: B-014
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 11:35:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init

Metals - Dissolved

Table listing various metals (Aluminum, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Vanadium, Zinc) with their respective results, units, and reporting limits.

Metals - Total

Table listing total metals (Iron, Manganese) with their results and reporting limits.

Radionuclides - Dissolved

Table listing radionuclides (Gross Alpha, Gross Beta, Radium 226, Radium 228) with their results, units, and reporting limits.

These results apply only to the samples tested.

RL - Reporting Limit

Table defining qualifiers (B, E, J, M, O, X) and reporting limit codes (C, H, L, ND, S) and their meanings.

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-015
ClientSample ID: B-015
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:32:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: 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 or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

- 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

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-015
ClientSample ID: B-015
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:32:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init

Metals - Dissolved

Table listing various metals (Aluminum, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Vanadium, Zinc) with their respective results, units, and reporting limits.

Metals - Total

Table listing total metals (Iron, Manganese) with their results and reporting limits.

Radionuclides - Dissolved

Table listing radionuclides (Gross Alpha, Gross Beta, Radium 226, Radium 228) with their results, units, and reporting limits.

These results apply only to the samples tested.

RL - Reporting Limit

Table defining qualifiers (B, E, J, M, O, X) and reporting limit codes (C, H, L, ND, S) with their corresponding meanings.

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-016
ClientSample ID: B-016
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 9:25:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	134	mg/L		5	SM 2320B	03/18/2015 1727	BT
Alkalinity, Bicarbonate as HCO3	163	mg/L		5	SM 2320B	03/18/2015 1727	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	03/18/2015 1727	BT
Chloride	11	mg/L		1	EPA 300.0	03/18/2015 320	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	03/18/2015 1727	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	03/23/2015 1509	AMB
Sulfate	81	mg/L		1	EPA 300.0	03/18/2015 320	AB
Calcium	49	mg/L		1	EPA 200.7	03/19/2015 1150	DG
Magnesium	13	mg/L		1	EPA 200.7	03/19/2015 1150	DG
Potassium	7	mg/L		1	EPA 200.7	03/19/2015 1150	DG
Sodium	13	mg/L		1	EPA 200.7	03/19/2015 1150	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	03/26/2015 1401	AMB
Silica as SiO2	13	mg/L		1	EPA 200.7	03/19/2015 1150	DG
General Parameters							
pH	7.6	s.u.		0.1	SM 4500 H B	03/18/2015 1727	BT
Electrical Conductivity	457	µmhos/cm		5	SM 2510B	03/18/2015 1727	BT
Total Dissolved Solids (180)	300	mg/L		10	SM 2540	03/17/2015 1535	IR
Data Quality							
Cation Sum	4.27	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Anion Sum	4.67	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Cation-Anion Balance (± 5%)	4.48	%		0.01	SM 1030E	03/31/2015 1626	JJ
Solids, Total Dissolved (Calc)	270	mg/L		10	SM 1030E	03/31/2015 1626	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.11	dec. %		0.01	Calculation	04/09/2015 1347	WN

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- 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 or is less than LCL
 - O Outside the Range of Dilutions
 - X Matrix Effect

- 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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-016
ClientSample ID: B-016
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 9:25:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1150 DG
Arsenic	0.011	mg/L		0.001	EPA 200.8	03/18/2015 217 MS
Barium	ND	mg/L		0.1	EPA 200.8	03/18/2015 217 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1150 DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1150 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/18/2015 217 MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1150 DG
Copper	ND	mg/L		0.01	EPA 200.8	03/18/2015 217 MS
Iron	4.99	mg/L		0.05	EPA 200.7	03/19/2015 1150 DG
Lead	ND	mg/L		0.01	EPA 200.8	03/18/2015 217 MS
Manganese	0.11	mg/L		0.01	EPA 200.7	03/19/2015 1150 DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1231 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/18/2015 217 MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1150 DG
Selenium	ND	mg/L		0.001	EPA 200.8	03/18/2015 217 MS
Uranium	0.354	mg/L		0.0003	EPA 200.8	03/18/2015 217 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/18/2015 217 MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1150 DG

Metals - Total

Iron	6.08	mg/L		0.05	EPA 200.7	03/19/2015 1630 DG
Manganese	0.11	mg/L		0.01	EPA 200.7	03/19/2015 1630 DG

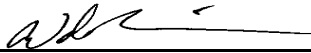
Radionuclides - Dissolved

Gross Alpha	847	pCi/L		2	SM 7110B	04/02/2015 1046 MB
Gross Alpha Precision (±)	12.5	pCi/L			SM 7110B	04/02/2015 1046 MB
Gross Beta	442	pCi/L		3	SM 7110B	04/02/2015 1046 MB
Gross Beta Precision (±)	6.7	pCi/L			SM 7110B	04/02/2015 1046 MB
Radium 226	260	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 908 MB
Radium 226 Precision (±)	2.0	pCi/L			SM 7500 Ra-B	04/06/2015 908 MB
Radium 228	4.7	pCi/L		1	Ga-Tech	04/05/2015 631 MB
Radium 228 Precision (±)	1.7	pCi/L			Ga-Tech	04/05/2015 631 MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B Analyte detected in the associated Method Blank	C Calculated Value
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory
	M Value exceeds Monthly Ave or MCL or is less than LCL	ND Not Detected at the Reporting Limit
	O Outside the Range of Dilutions	S Spike Recovery outside accepted recovery limits
	X Matrix Effect	

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-017
ClientSample ID: B-017
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 9:34:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

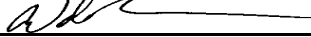
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	107	mg/L		5	SM 2320B	03/18/2015 1737	BT
Alkalinity, Bicarbonate as HCO3	131	mg/L		5	SM 2320B	03/18/2015 1737	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	03/18/2015 1737	BT
Chloride	13	mg/L		1	EPA 300.0	03/18/2015 334	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	03/18/2015 1737	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	03/23/2015 1520	AMB
Sulfate	69	mg/L		1	EPA 300.0	03/18/2015 334	AB
Calcium	42	mg/L		1	EPA 200.7	03/19/2015 1152	DG
Magnesium	11	mg/L		1	EPA 200.7	03/19/2015 1152	DG
Potassium	6	mg/L		1	EPA 200.7	03/19/2015 1152	DG
Sodium	12	mg/L		1	EPA 200.7	03/19/2015 1152	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	03/26/2015 1402	AMB
Silica as SiO2	11	mg/L		1	EPA 200.7	03/19/2015 1152	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	03/18/2015 1737	BT
Electrical Conductivity	392	µmhos/cm		5	SM 2510B	03/18/2015 1737	BT
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	03/17/2015 1536	IR
Data Quality							
Cation Sum	3.69	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Anion Sum	3.95	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Cation-Anion Balance (± 5%)	3.39	%		0.01	SM 1030E	03/31/2015 1626	JJ
Solids, Total Dissolved (Calc)	230	mg/L		10	SM 1030E	03/31/2015 1626	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	04/09/2015 1347	WN

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- 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 or is less than LCL
 - O Outside the Range of Dilutions
 - X Matrix Effect

- 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

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-017
ClientSample ID: B-017
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 9:34:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1152 DG
Arsenic	0.037	mg/L		0.001	EPA 200.8	03/18/2015 223 MS
Barium	ND	mg/L		0.1	EPA 200.8	03/18/2015 223 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1152 DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1152 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/18/2015 223 MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1152 DG
Copper	ND	mg/L		0.01	EPA 200.8	03/18/2015 223 MS
Iron	1.76	mg/L		0.05	EPA 200.7	03/19/2015 1152 DG
Lead	ND	mg/L		0.01	EPA 200.8	03/18/2015 223 MS
Manganese	0.05	mg/L		0.01	EPA 200.7	03/19/2015 1152 DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1233 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/18/2015 223 MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1152 DG
Selenium	ND	mg/L		0.001	EPA 200.8	03/18/2015 223 MS
Uranium	0.308	mg/L		0.0003	EPA 200.8	03/18/2015 223 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/18/2015 223 MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1152 DG

Metals - Total

Iron	2.09	mg/L		0.05	EPA 200.7	03/19/2015 1637 DG
Manganese	0.05	mg/L		0.01	EPA 200.7	03/19/2015 1637 DG

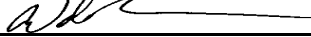
Radionuclides - Dissolved

Gross Alpha	454	pCi/L		2	SM 7110B	04/02/2015 1046 MB
Gross Alpha Precision (±)	9.0	pCi/L			SM 7110B	04/02/2015 1046 MB
Gross Beta	241	pCi/L		3	SM 7110B	04/02/2015 1046 MB
Gross Beta Precision (±)	5.1	pCi/L			SM 7110B	04/02/2015 1046 MB
Radium 226	142	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 908 MB
Radium 226 Precision (±)	1.5	pCi/L			SM 7500 Ra-B	04/06/2015 908 MB
Radium 228	ND	pCi/L		1	Ga-Tech	04/05/2015 931 MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	04/05/2015 931 MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-018
ClientSample ID: B-018
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 10:40:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	111	mg/L		5	SM 2320B	03/18/2015 1749	BT
Alkalinity, Bicarbonate as HCO3	135	mg/L		5	SM 2320B	03/18/2015 1749	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	03/18/2015 1749	BT
Chloride	8	mg/L		1	EPA 300.0	03/18/2015 347	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	03/18/2015 1749	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	03/23/2015 1521	AMB
Sulfate	41	mg/L		1	EPA 300.0	03/18/2015 347	AB
Calcium	37	mg/L		1	EPA 200.7	03/19/2015 1154	DG
Magnesium	9	mg/L		1	EPA 200.7	03/19/2015 1154	DG
Potassium	6	mg/L		1	EPA 200.7	03/19/2015 1154	DG
Sodium	10	mg/L		1	EPA 200.7	03/19/2015 1154	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	03/26/2015 1403	AMB
Silica as SiO2	12	mg/L		1	EPA 200.7	03/19/2015 1154	DG
General Parameters							
pH	8.1	s.u.		0.1	SM 4500 H B	03/18/2015 1749	BT
Electrical Conductivity	332	µmhos/cm		5	SM 2510B	03/18/2015 1749	BT
Total Dissolved Solids (180)	200	mg/L		10	SM 2540	03/17/2015 1537	IR
Data Quality							
Cation Sum	3.10	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Anion Sum	3.29	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Cation-Anion Balance (± 5%)	3.03	%		0.01	SM 1030E	03/31/2015 1626	JJ
Solids, Total Dissolved (Calc)	190	mg/L		10	SM 1030E	03/31/2015 1626	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.05	dec. %		0.01	Calculation	04/09/2015 1347	WN

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- 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 or is less than LCL
 - O Outside the Range of Dilutions
 - X Matrix Effect

- 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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-018
ClientSample ID: B-018
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 10:40:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Vanadium, Zinc), Metals - Total (Iron, Manganese), and Radionuclides - Dissolved (Gross Alpha, Gross Alpha Precision, Gross Beta, Gross Beta Precision, Radium 226, Radium 226 Precision, Radium 228, Radium 228 Precision).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: 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 or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

- 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

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-019
ClientSample ID: B-019
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:36:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

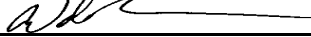
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	99	mg/L		5	SM 2320B	03/18/2015 1801	BT
Alkalinity, Bicarbonate as HCO3	121	mg/L		5	SM 2320B	03/18/2015 1801	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	03/18/2015 1801	BT
Chloride	5	mg/L		1	EPA 300.0	03/18/2015 400	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	03/18/2015 1801	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	03/23/2015 1530	AMB
Sulfate	32	mg/L		1	EPA 300.0	03/18/2015 400	AB
Calcium	30	mg/L		1	EPA 200.7	03/19/2015 1159	DG
Magnesium	7	mg/L		1	EPA 200.7	03/19/2015 1159	DG
Potassium	4	mg/L		1	EPA 200.7	03/19/2015 1159	DG
Sodium	10	mg/L		1	EPA 200.7	03/19/2015 1159	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	03/26/2015 1405	AMB
Silica as SiO2	11	mg/L		1	EPA 200.7	03/19/2015 1159	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	03/18/2015 1801	BT
Electrical Conductivity	280	µmhos/cm		5	SM 2510B	03/18/2015 1801	BT
Total Dissolved Solids (180)	170	mg/L		10	SM 2540	03/17/2015 1538	IR
Data Quality							
Cation Sum	2.62	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Anion Sum	2.79	meq/L		0.01	SM 1030E	03/31/2015 1626	JJ
Cation-Anion Balance (± 5%)	3.06	%		0.01	SM 1030E	03/31/2015 1626	JJ
Solids, Total Dissolved (Calc)	160	mg/L		10	SM 1030E	03/31/2015 1626	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.06	dec. %		0.01	Calculation	04/09/2015 1347	WN

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- 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 or is less than LCL
 - O Outside the Range of Dilutions
 - X Matrix Effect

- 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

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 4/9/2015
Report ID S1503221001

ProjectName: MU1 GL8
Lab ID: S1503221-019
ClientSample ID: B-019
COC: 155493 155492

WorkOrder: S1503221
CollectionDate: 3/16/2015 8:36:00 AM
DateReceived: 3/17/2015 11:32:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	03/19/2015 1159 DG
Arsenic	0.009	mg/L		0.001	EPA 200.8	03/18/2015 245 MS
Barium	ND	mg/L		0.1	EPA 200.8	03/18/2015 245 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	03/19/2015 1159 DG
Boron	ND	mg/L		0.1	EPA 200.7	03/19/2015 1159 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	03/18/2015 245 MS
Chromium	ND	mg/L		0.01	EPA 200.7	03/19/2015 1159 DG
Copper	ND	mg/L		0.01	EPA 200.8	03/18/2015 245 MS
Iron	0.94	mg/L		0.05	EPA 200.7	03/19/2015 1159 DG
Lead	ND	mg/L		0.01	EPA 200.8	03/18/2015 245 MS
Manganese	0.06	mg/L		0.01	EPA 200.7	03/19/2015 1159 DG
Mercury	ND	mg/L		0.001	EPA 245.1	03/24/2015 1237 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	03/18/2015 245 MS
Nickel	ND	mg/L		0.05	EPA 200.7	03/19/2015 1159 DG
Selenium	0.001	mg/L		0.001	EPA 200.8	03/18/2015 245 MS
Uranium	0.229	mg/L		0.0003	EPA 200.8	03/18/2015 245 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	03/18/2015 245 MS
Zinc	ND	mg/L		0.01	EPA 200.7	03/19/2015 1159 DG

Metals - Total

Iron	1.13	mg/L		0.05	EPA 200.7	03/19/2015 1649 DG
Manganese	0.06	mg/L		0.01	EPA 200.7	03/19/2015 1649 DG

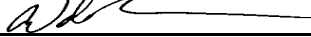
Radionuclides - Dissolved

Gross Alpha	885	pCi/L		2	SM 7110B	04/02/2015 1046 MB
Gross Alpha Precision (±)	12.8	pCi/L			SM 7110B	04/02/2015 1046 MB
Gross Beta	462	pCi/L		3	SM 7110B	04/02/2015 1046 MB
Gross Beta Precision (±)	7.3	pCi/L			SM 7110B	04/02/2015 1046 MB
Radium 226	314	pCi/L		0.2	SM 7500 Ra-B	04/06/2015 908 MB
Radium 226 Precision (±)	2.2	pCi/L			SM 7500 Ra-B	04/06/2015 908 MB
Radium 228	2.6	pCi/L		1	Ga-Tech	04/05/2015 2150 MB
Radium 228 Precision (±)	1.7	pCi/L			Ga-Tech	04/05/2015 2150 MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Alkalinity		Sample Type	MBLK		Units: mg/L				
BLANK (03/20/15 11:04)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Alkalinity, Total (As CaCO3)	118942	ND	5					

Alkalinity		Sample Type	LCS		Units: mg/L				
ATQC (03/20/15 10:53)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Alkalinity, Total (As CaCO3)	118942	591	5	595		99.3	90 - 110	

Alkalinity		Sample Type	DUP		Units: mg/L				
S1503221-009AD (03/18/15 15:40)	Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
	Alkalinity, Bicarbonate as HCO3	118828	221	5	211	4.95		20	
	Alkalinity, Carbonate as CO3		ND	5	ND			20	
	Alkalinity, Total (As CaCO3)		181	5	173	4.95		20	

Conductivity		Sample Type	MBLK		Units: µmhos/cm				
BLANK (03/18/15 13:38)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Electrical Conductivity	118828	ND	5					

Conductivity		Sample Type	LCS		Units: µmhos/cm				
ATQC (03/18/15 13:28)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Electrical Conductivity	118828	1050	5	1060		98.7	90 - 110	

Conductivity		Sample Type	DUP		Units: µmhos/cm				
S1503221-009AD (03/18/15 15:40)	Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
	Electrical Conductivity	118828	555	5	558	0.539		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
 - X Matrix Effect



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Dissolved Mercury by EPA 245.1 - Water

Sample Type **MBLK**

Units: mg/L

LRB (03/24/15 11:50)	RunNo: 119005							
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Mercury	ND	0.001						

Dissolved Mercury by EPA 245.1 - Water

Sample Type **LCS**

Units: mg/L

LCS (03/24/15 13:49)	RunNo: 119005							
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Mercury	0.002	0.001	0.002		95.4	85 - 115		

Dissolved Mercury by EPA 245.1 - Water

Sample Type **MS**

Units: mg/L

S1503221-005D (03/24/15 11:56)	RunNo: 119005							
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Mercury	0.002	0.001	0.00197	ND	81.9	70 - 130		

S1503221-013D (03/24/15 12:23)	RunNo: 119005							
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Mercury	0.002	0.001	0.00197	ND	83.3	70 - 130		

Dissolved Mercury by EPA 245.1 - Water

Sample Type **MSD**

Units: mg/L

S1503221-005D (03/24/15 11:58)	RunNo: 119005							
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Mercury	0.002	0.001	0.002	2.68	79.8	20		

S1503221-013D (03/24/15 12:25)	RunNo: 119005							
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Mercury	0.002	0.001	0.002	1.45	84.5	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
 - X Matrix Effect



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Dissolved Metals by ICP - EPA 200.7 - Water

Sample Type **MBLK**

Units: mg/L

MBLK DISS/CAT (03/19/15 08:22)		RunNo: 118850						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Aluminum	ND	0.1						
Beryllium	ND	0.01						
Boron	ND	0.1						
Chromium	ND	0.01						
Iron	ND	0.05						
Manganese	ND	0.02						
Nickel	ND	0.01						
Zinc	ND	0.01						

Dissolved Metals by ICP - EPA 200.7 - Water

Sample Type **LCS**

Units: mg/L

DISS LCS Q (03/19/15 08:24)		RunNo: 118850						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Aluminum	1.0	0.1	1		98.7	85 - 115		
Beryllium	1.01	0.01	1		101	85 - 115		
Boron	1.0	0.1	1		104	85 - 115		
Chromium	1.03	0.01	1		103	85 - 115		
Iron	1.03	0.05	1		103	85 - 115		
Manganese	1.02	0.02	1		102	85 - 115		
Nickel	1.05	0.01	1		105	85 - 115		
Zinc	1.02	0.01	1		102	85 - 115		

Dissolved Metals by ICP - EPA 200.7 - Water

Sample Type **MS**

Units: mg/L

S1503221-005DS (03/19/15 11:01)		RunNo: 118850						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Aluminum	0.2	0.1	0.25	ND	96.9	70 - 130		
Beryllium	0.251	0.001	0.25	ND	100	70 - 130		
Boron	0.3	0.1	0.25	ND	105	70 - 130		
Chromium	0.25	0.01	0.25	ND	101	70 - 130		
Iron	0.94	0.05	0.25	0.68	102	70 - 130		
Manganese	0.31	0.01	0.25	0.06	100	70 - 130		
Nickel	0.26	0.05	0.25	ND	102	70 - 130		
Zinc	0.26	0.01	0.25	ND	105	70 - 130		

Dissolved Metals by ICP - EPA 200.7 - Water

Sample Type **MSD**

Units: mg/L

S1503221-005DSD (03/19/15 11:03)		RunNo: 118850					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Aluminum	0.2	0.1	0.2	2.96	94.0	20	
Beryllium	0.243	0.001	0.251	3.25	97.3	20	
Boron	0.3	0.1	0.3	2.04	102	20	
Chromium	0.25	0.01	0.25	2.49	98.5	20	
Iron	0.92	0.05	0.94	1.58	96.0	20	
Manganese	0.30	0.01	0.31	1.76	98.0	20	
Nickel	0.26	0.05	0.26	2.09	100	20	
Zinc	0.26	0.01	0.26	2.59	103	20	

- Qualifiers:**
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 - 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
 - X Matrix Effect

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Dissolved Metals by ICPMS EPA 200.8 - WaterSample Type **MBLK**

Units: mg/L

MBLK (03/17/15 17:04)		RunNo: 118808						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Arsenic	ND	0.005						
Barium	ND	0.1						
Cadmium	ND	0.001						
Copper	ND	0.01						
Lead	ND	0.02						
Molybdenum	ND	0.02						
Selenium	ND	0.001						
Uranium	ND	0.0003						
Vanadium	ND	0.02						

Dissolved Metals by ICPMS EPA 200.8 - WaterSample Type **LCS**

Units: mg/L

LCS (03/17/15 16:59)		RunNo: 118808						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Arsenic	0.100	0.005	0.1		99.9	85 - 115		
Barium	0.1	0.1	0.1		101	85 - 115		
Cadmium	0.098	0.001	0.1		98.2	85 - 115		
Copper	0.10	0.01	0.1		98.7	85 - 115		
Lead	0.10	0.02	0.1		103	85 - 115		
Molybdenum	0.10	0.02	0.1		102	85 - 115		
Selenium	0.099	0.001	0.1		98.8	85 - 115		
Uranium	0.0993	0.0003	0.1		99.3	85 - 115		
Vanadium	0.10	0.02	0.1		103	85 - 115		

Dissolved Metals by ICPMS EPA 200.8 - WaterSample Type **MS**

Units: mg/L

S1503221-004DS (03/18/15 00:19)		RunNo: 118808						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Arsenic	1.11	0.001	1.1	0.032	98.3	70 - 130		
Barium	1.1	0.1	1.1	ND	97.2	70 - 130		
Cadmium	1.05	0.001	1.1	ND	95.2	70 - 130		
Copper	1.08	0.01	1.1	ND	98.0	70 - 130		
Lead	1.09	0.01	1.1	ND	98.7	70 - 130		
Molybdenum	1.13	0.01	1.1	ND	103	70 - 130		
Selenium	1.12	0.001	1.1	0.003	101	70 - 130		
Uranium	4.38	0.0003	1.1	3.42	87.9	70 - 130		
Vanadium	1.1	0.1	1.1	ND	99.2	70 - 130		

S1503221-014DS (03/18/15 01:51)		RunNo: 118808						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Arsenic	1.10	0.001	1.1	0.004	99.3	70 - 130		
Barium	1.1	0.1	1.1	ND	98.4	70 - 130		
Cadmium	1.07	0.001	1.1	ND	97.0	70 - 130		
Copper	1.07	0.01	1.1	ND	97.3	70 - 130		
Lead	1.10	0.01	1.1	ND	100	70 - 130		

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	L Analyzed by a contract laboratory	ND Not Detected at the Reporting Limit
	O Outside the Range of Dilutions	R RPD outside accepted recovery limits
	S Spike Recovery outside accepted recovery limits	X Matrix Effect



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Dissolved Metals by ICPMS EPA 200.8 - Water

Sample Type **MS**

Units: mg/L

S1503221-014DS (03/18/15 01:51)		RunNo: 118808					
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Molybdenum	1.12	0.01	1.1	ND	101	70 - 130	
Selenium	1.12	0.001	1.1	0.003	102	70 - 130	
Uranium	1.56	0.0003	1.1	0.470	99.2	70 - 130	
Vanadium	1.1	0.1	1.1	ND	102	70 - 130	

Dissolved Metals by ICPMS EPA 200.8 - Water

Sample Type **MSD**

Units: mg/L

S1503221-004DMSD (03/18/15 00:35)		RunNo: 118808					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Arsenic	1.10	0.001	1.11	1.41	96.9	20	
Barium	1.1	0.1	1.1	0.300	97.5	20	
Cadmium	1.06	0.001	1.05	1.42	96.6	20	
Copper	1.03	0.01	1.08	4.31	93.9	20	
Lead	1.10	0.01	1.09	1.32	100	20	
Molybdenum	1.12	0.01	1.13	0.935	102	20	
Selenium	1.14	0.001	1.12	1.88	103	20	
Uranium	4.37	0.0003	4.38	0.187	87.1	20	
Vanadium	1.1	0.1	1.1	1.52	101	20	

S1503221-014DMSD (03/18/15 01:56)		RunNo: 118808					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Arsenic	1.09	0.001	1.10	0.552	98.7	20	
Barium	1.1	0.1	1.1	0.959	99.4	20	
Cadmium	1.06	0.001	1.07	0.795	96.2	20	
Copper	1.08	0.01	1.07	0.727	98.1	20	
Lead	1.13	0.01	1.10	2.41	103	20	
Molybdenum	1.08	0.01	1.12	3.14	98.3	20	
Selenium	1.11	0.001	1.12	0.470	101	20	
Uranium	1.55	0.0003	1.56	0.521	98.5	20	
Vanadium	1.1	0.1	1.1	2.04	99.6	20	

- Qualifiers:**
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 - 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
 - X Matrix Effect



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Fluoride by SM 4500		Sample Type	MBLK		Units: mg/L				
BLANK (03/18/15 13:38)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Fluoride	118828	ND	0.1					

Fluoride by SM 4500		Sample Type	LCS		Units: mg/L				
ATQC (03/20/15 10:53)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Fluoride	118942	3.0	0.1	3		99.2	85 - 115	

Fluoride by SM 4500		Sample Type	MS		Units: mg/L				
S1503221-010ASPK MS (03/18/15 16:08)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Fluoride	118828	2.8	0.1	2.5	0.1	106	80 - 120	

Fluoride by SM 4500		Sample Type	MSD		Units: mg/L				
S1503221-010ASPK MSD (03/18/15 16:12)	Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
	Fluoride	118828	2.8	0.1	2.8	0.972	105	20	

- Qualifiers:**
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 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
 - X Matrix Effect



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Gross Alpha, Beta by SM 7110B

Sample Type **MBLK**

Units: pCi/L

MB-300 (03/31/15 08:13)	RunNo: 119348	PrepDate: 03/24/15 0:00	BatchID: R119348	
Analyte	Result	RL	Spike	Ref Samp

Gross Alpha (Dissolved)	ND	2		
Gross Beta (Dissolved)	ND	3		

MB-301 (04/01/15 16:34)	RunNo: 119409	PrepDate: 03/25/15 0:00	BatchID: R119409	
Analyte	Result	RL	Spike	Ref Samp

Gross Alpha (Dissolved)	ND	2		
Gross Beta (Dissolved)	ND	3		

Gross Alpha, Beta by SM 7110B

Sample Type **LCS**

Units: pCi/L

LCS-300 (03/31/15 08:13)	RunNo: 119348	PrepDate: 03/24/15 0:00	BatchID: R119348	
Analyte	Result	RL	Spike	Ref Samp

Gross Alpha (Dissolved)	71	2	72.6	97.8	59.5 - 130
Gross Beta (Dissolved)	125	3	118	106	80 - 122

LCS-301 (04/01/15 16:34)	RunNo: 119409	PrepDate: 03/25/15 0:00	BatchID: R119409	
Analyte	Result	RL	Spike	Ref Samp

Gross Alpha (Dissolved)	69	2	72.6	95.6	59.5 - 130
Gross Beta (Dissolved)	132	3	118	111	80 - 122

Gross Alpha, Beta by SM 7110B

Sample Type **MS**

Units: pCi/L

S1503238-011F MS (03/31/15 14:17)	RunNo: 119348	PrepDate: 03/24/15 0:00	BatchID: R119348	
Analyte	Result	RL	Spike	Ref Samp

Gross Alpha (Dissolved)	1430	2	145	1270	113	50 - 150
Gross Beta (Dissolved)	530	3	118	456	63.0	61.4 - 150

S1503238-001F MS (03/31/15 08:13)	RunNo: 119348	PrepDate: 03/24/15 0:00	BatchID: R119348	
Analyte	Result	RL	Spike	Ref Samp

Gross Alpha (Dissolved)	1080	2	70	995	128	50 - 150
Gross Beta (Dissolved)	684	3	237	473	89.3	61.4 - 150

Gross Alpha, Beta by SM 7110B

Sample Type **DUP**

Units: pCi/L

S1503221-005F DUP (04/01/15 16:34)	RunNo: 119409	PrepDate: 03/25/15 0:00	BatchID: R119409	
Analyte	Result	RL	Ref Samp	%RPD

Gross Alpha (Dissolved)	683	2	732	6.86	20
Gross Beta (Dissolved)	364	3	374	2.62	20

S1503221-019F DUP (04/02/15 10:46)	RunNo: 119409	PrepDate: 03/25/15 0:00	BatchID: R119409	
Analyte	Result	RL	Ref Samp	%RPD

Gross Alpha (Dissolved)	816	2	885	8.07	20
Gross Beta (Dissolved)	406	3	462	12.7	20

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Anions by ION Chromatography

Sample Type **MBLK**

Units: mg/L

BLK (03/17/15 10:53)		RunNo: 118769						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Chloride	ND	1						
Sulfate	ND	1						

Anions by ION Chromatography

Sample Type **LCS**

Units: mg/L

DIONEX (03/17/15 11:06)		RunNo: 118769						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Chloride	31	1	30		103	90 - 110		
Sulfate	143	1	150		95.5	90 - 110		

Anions by ION Chromatography

Sample Type **MS**

Units: mg/L

S1503221-009ASPK (03/18/15 00:53)		RunNo: 118769						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Chloride	45	1	27.3	16	108	80 - 120		
Sulfate	321	1	205	89	114	80 - 120		

S1503221-019ASPK (03/18/15 04:27)		RunNo: 118769						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Chloride	24	1	18.2	5	105	80 - 120		
Sulfate	181	1	136	32	109	80 - 120		

Anions by ION Chromatography

Sample Type **MSD**

Units: mg/L

S1503221-009ASPK (03/18/15 01:07)		RunNo: 118769						
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Chloride	45	1	45	0.946	106	20		
Sulfate	323	1	321	0.418	114	20		

S1503221-019ASPKD (03/18/15 04:40)		RunNo: 118769						
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Chloride	23	1	24	1.69	103	20		
Sulfate	177	1	181	1.88	106	20		

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Cations by ICP (Method 200.7)

Sample Type **MBLK**

Units: mg/L

MBLK DISS/CAT (03/20/15 13:50)		RunNo: 118913						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Calcium	ND	1						
Magnesium	ND	1						
Potassium	ND	1						
Sodium	ND	1						

Cations by ICP (Method 200.7)

Sample Type **LCS**

Units: mg/L

CAT LCS IML3 (03/19/15 08:27)		RunNo: 118848						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Calcium	39	1	40		97.8	85 - 115		
Magnesium	40	1	40		100	85 - 115		
Potassium	39	1	40		97.0	85 - 115		
Sodium	40	1	40		101	85 - 115		

Cations by ICP (Method 200.7)

Sample Type **MS**

Units: mg/L

S1503221-005AS (03/19/15 11:01)		RunNo: 118848						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Calcium	63	1	25	38	101	70 - 130		
Magnesium	35	1	25	10	100	70 - 130		
Potassium	31	1	25	5	103	70 - 130		
Sodium	33	1	25	11	91.7	70 - 130		

S1503221-012AS (03/19/15 11:32)		RunNo: 118848						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Calcium	70	1	25	48	90.8	70 - 130		
Magnesium	37	1	25	13	95.3	70 - 130		
Potassium	34	1	25	7	106	70 - 130		
Sodium	38	1	25	15	89.8	70 - 130		

Cations by ICP (Method 200.7)

Sample Type **MSD**

Units: mg/L

S1503221-005ASD (03/19/15 11:03)		RunNo: 118848						
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Calcium	62	1	63	1.40	97.1	20		
Magnesium	34	1	35	2.67	96.8	20		
Potassium	31	1	31	2.10	101	20		
Sodium	33	1	33	2.16	88.8	20		

S1503221-012ASD (03/19/15 11:34)		RunNo: 118848						
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Calcium	69	1	70	1.95	85.4	20		
Magnesium	35	1	37	3.76	89.9	20		
Potassium	32	1	34	5.47	99.1	20		
Sodium	36	1	38	4.29	83.5	20		

- Qualifiers:**
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 - 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
 - X Matrix Effect

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Nitrogen, Ammonia (as N)		Sample Type	MBLK		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
BLANK (03/26/15 12:27)	119101								
Nitrogen, Ammonia (As N)		ND	0.1						

Nitrogen, Ammonia (as N)		Sample Type	LCS		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
QC (03/26/15 12:30)	119101								
Nitrogen, Ammonia (As N)		4.7	0.1	5		94.3	89 - 111		

Nitrogen, Ammonia (as N)		Sample Type	MS		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
S1503221-009C (03/19/15 13:42)	118896								
Nitrogen, Ammonia (As N)		5.6	0.1	5	0.6	99.8	90 - 110		

Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1503221-015C (03/26/15 13:54)	119101							
Nitrogen, Ammonia (As N)		4.9	0.1	5	0.2	93.7	90 - 110	

Nitrogen, Ammonia (as N)		Sample Type	MSD		Units: mg/L				
Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
S1503221-009C (03/19/15 13:44)	118896								
Nitrogen, Ammonia (As N)		5.6	0.1	5.6	0.576	99.1	20		

Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1503221-015C (03/26/15 13:55)	119101							
Nitrogen, Ammonia (As N)		5.0	0.1	4.9	2.60	96.2	20	

Nitrogen, Nitrate-Nitrite (as N)		Sample Type	MBLK		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
BLANK (03/25/15 12:53)	119077								
Nitrogen, Nitrate-Nitrite (as N)		ND	0.1						

Nitrogen, Nitrate-Nitrite (as N)		Sample Type	LCS		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
QC (03/25/15 12:56)	119077								
Nitrogen, Nitrate-Nitrite (as N)		17.4	0.1	17.7		98.2	90 - 110		

Nitrogen, Nitrate-Nitrite (as N)		Sample Type	MS		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
S1503221-006C (03/25/15 13:46)	119077								
Nitrogen, Nitrate-Nitrite (as N)		4.7	0.1	5	ND	93.5	90 - 110		

Nitrogen, Nitrate-Nitrite (as N)		Sample Type	MSD		Units: mg/L				
Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
S1503221-006C (03/25/15 13:47)	119077								
Nitrogen, Nitrate-Nitrite (as N)		4.8	0.1	4.7	2.43	95.8	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
X Matrix Effect



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Radium 228 by Ga/Tech	Sample Type MBLK	Units: pCi/L				
MB-9835 (04/02/15 15:11)	RunNo: 119415	PrepDate: 03/18/15 11:30	BatchID: 9835			
Analyte	Result	RL	Spike	Ref Samp	%REC % Rec Limits Qual	
Radium 228 (Dissolved)	ND	1				

Radium 228 by Ga/Tech	Sample Type LCS	Units: pCi/L				
LCS-9835 (04/02/15 18:12)	RunNo: 119415	PrepDate: 03/18/15 11:30	BatchID: 9835			
Analyte	Result	RL	Spike	Ref Samp	%REC % Rec Limits Qual	
Radium 228 (Dissolved)	29	1	40.1	73.3	60 - 120	

Radium 228 by Ga/Tech	Sample Type LCSD	Units: pCi/L				
LCSD-9835 (04/02/15 21:13)	RunNo: 119415	PrepDate: 03/18/15 11:30	BatchID: 9835			
Analyte	Result	RL	Conc	%RPD	%REC % RPD Limits Qual	
Radium 228 (Dissolved)	33	1	29	10.0	81.0 20	

Radium 228 by Ga/Tech	Sample Type MS	Units: pCi/L				
MS-9835 (04/03/15 03:15)	RunNo: 119415	PrepDate: 03/18/15 11:30	BatchID: 9835			
Analyte	Result	RL	Spike	Ref Samp	%REC % Rec Limits Qual	
Radium 228 (Dissolved)	33	1	40.1	ND	82.9 66.7 - 120	

Radium 228 by Ga/Tech	Sample Type MSD	Units: pCi/L				
MSD-9835 (04/03/15 06:15)	RunNo: 119415	PrepDate: 03/18/15 11:30	BatchID: 9835			
Analyte	Result	RL	Conc	%RPD	%REC % RPD Limits Qual	
Radium 228 (Dissolved)	35	1	33	5.04	87.2 20	

- Qualifiers:**
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 - 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
 - X Matrix Effect



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Radium 226 in Water - Dissolved

Sample Type **MBLK**

Units: pCi/L

MB-1407 (04/06/15 09:08)	RunNo: 119455	PrepDate: 03/31/15 0:00	BatchID: 9843	
Analyte	Result	RL	Spike	Ref Samp

Radium 226 (Dissolved) ND 0.2

MB-1408 (04/06/15 15:04)	RunNo: 119460	PrepDate: 03/31/15 0:00	BatchID: 9844	
Analyte	Result	RL	Spike	Ref Samp

Radium 226 (Dissolved) ND 0.2

Radium 226 in Water - Dissolved

Sample Type **LCS**

Units: pCi/L

LCS-1407 (04/06/15 09:08)	RunNo: 119455	PrepDate: 03/31/15 0:00	BatchID: 9843	
Analyte	Result	RL	Spike	Ref Samp

Radium 226 (Dissolved) 4.5 0.2 4.98 89.4 67.6 - 120

LCS-1408 (04/06/15 15:04)	RunNo: 119460	PrepDate: 03/31/15 0:00	BatchID: 9844	
Analyte	Result	RL	Spike	Ref Samp

Radium 226 (Dissolved) 5.2 0.2 4.98 105 67.6 - 120

Radium 226 in Water - Dissolved

Sample Type **MS**

Units: pCi/L

MS-1407 (04/06/15 09:08)	RunNo: 119455	PrepDate: 03/31/15 0:00	BatchID: 9843	
Analyte	Result	RL	Spike	Ref Samp

Radium 226 (Dissolved) 5.5 0.2 4.98 ND 110 69.4 - 120

MS-1408 (04/06/15 15:04)	RunNo: 119460	PrepDate: 03/31/15 0:00	BatchID: 9844	
Analyte	Result	RL	Spike	Ref Samp

Radium 226 (Dissolved) 5.7 0.2 4.98 ND 115 69.4 - 120

Radium 226 in Water - Dissolved

Sample Type **MSD**

Units: pCi/L

MSD-1407 (04/06/15 09:08)	RunNo: 119455	PrepDate: 03/31/15 0:00	BatchID: 9843	
Analyte	Result	RL	Conc	%RPD

Radium 226 (Dissolved) 5.7 0.2 5.5 4.98 115 20

MSD-1408 (04/06/15 15:04)	RunNo: 119460	PrepDate: 03/31/15 0:00	BatchID: 9844	
Analyte	Result	RL	Conc	%RPD

Radium 226 (Dissolved) 5.5 0.2 5.7 4.32 110 20

- Qualifiers:**
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 - 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
 - X Matrix Effect



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Silica as SiO2		Sample Type	MBLK		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
MBLK DISS/CAT (03/19/15 08:22)	118856								
Silica as SiO2		ND	0.1						

Silica as SiO2		Sample Type	LCS		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
DISS LCS Q (03/19/15 08:24)	118856								
Silica as SiO2		2.2	0.1	2.14		102	85 - 115		

Silica as SiO2		Sample Type	DUP		Units: mg/L				
Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
S1503221-004DD (03/19/15 10:57)	118856								
Silica as SiO2		12	1	12	0.145		20		

S1503221-011DD (03/19/15 11:28)		RunNo:	118856		Units: mg/L				
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual		
Silica as SiO2	12	1	12	0.327		20			

Solids By SM 2540		Sample Type	MBLK		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
DI (03/17/15 15:17)	118924								
Total Dissolved Solids (180)		ND	10						

Solids By SM 2540		Sample Type	LCS		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
CONTROL (03/17/15 15:18)	118924								
Total Dissolved Solids (180)		230	10	226		103	90 - 110		

Solids By SM 2540		Sample Type	DUP		Units: mg/L				
Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
S1503221-010A (03/17/15 15:29)	118924								
Total Dissolved Solids (180)		570	10	620	8.03		20		

S1503221-019A (03/17/15 15:39)		RunNo:	118924		Units: mg/L				
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual		
Total Dissolved Solids (180)	160	10	170	5.99		20			

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1503221
Project: MU1 GL8

Date: 4/9/2015
Report ID: S1503221001

Total (200.2) Metals by EPA 200.7 ICP - Water

Sample Type **MBLK**

Units: mg/L

MB-9762 (03/19/15 15:05)	RunNo: 118860	PrepDate: 03/18/15 12:15	BatchID: 9762				
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Iron	ND	0.05					
Manganese	ND	0.02					

Total (200.2) Metals by EPA 200.7 ICP - Water

Sample Type **LCS**

Units: mg/L

LCS-9762 (03/19/15 15:08)	RunNo: 118860	PrepDate: 03/18/15 12:15	BatchID: 9762				
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Iron	0.51	0.05	0.5		102	85 - 115	
Manganese	0.19	0.02	0.2		96.6	85 - 115	

Total (200.2) Metals by EPA 200.7 ICP - Water

Sample Type **MS**

Units: mg/L

S1503221-006ES (03/19/15 15:56)	RunNo: 118860	PrepDate: 03/18/15 6:00	BatchID: 9762				
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Iron	9.23	0.05	0.5	8.59	129	70 - 130	
Manganese	0.30	0.01	0.2	0.11	94.3	70 - 130	

S1503221-016ES (03/19/15 16:33)	RunNo: 118860	PrepDate: 03/18/15 6:00	BatchID: 9762				
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Iron	6.51	0.05	0.5	6.08	86.1	70 - 130	
Manganese	0.29	0.01	0.2	0.11	92.6	70 - 130	

Total (200.2) Metals by EPA 200.7 ICP - Water

Sample Type **MSD**

Units: mg/L

S1503221-006EMSD (03/19/15 15:58)	RunNo: 118860	PrepDate: 03/18/15 6:00	BatchID: 9762				
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Iron	9.19	0.05	9.23	0.523	120	20	
Manganese	0.30	0.01	0.30	0.511	95.1	20	

S1503221-016EMSD (03/19/15 16:35)	RunNo: 118860	PrepDate: 03/18/15 6:00	BatchID: 9762				
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Iron	6.54	0.05	6.51	0.419	91.6	20	
Manganese	0.30	0.01	0.29	1.90	95.4	20	

pH Water

Sample Type **LCS**

Units: s.u.

ATQC (03/20/15 10:53)	RunNo: 118942						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
pH	8.9	0.1	8.74		101	90 - 110	

pH Water

Sample Type **DUP**

Units: s.u.

S1503221-009AD (03/18/15 15:40)	RunNo: 118828						
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
pH	7.8	0.1	7.8	0.251		20	

Qualifiers:

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- 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
- X Matrix Effect