



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.

154591

Client Name Comarco Resources	Project Identification m41 Stability Monitoring	Sampler (Signature/Attestation of Authenticity) <i>[Signature]</i>	Telephone # 307 358 6541
Report Address PO Box 1210 Granrock WY 82637	Contact Name Larry Wilbanks	ANALYSES / PARAMETERS	
Invoice Address	Email Larry.Wilbanks@comarco.com	New guideline	Temp
	Phone 307 358 6541 x 427		
	Purchase Order # 4560 458 888		
	Quote #		

ITEM	LAB ID (Lab Use Only)	DATE	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	Temp	Filtered	Preserved
1	51506333-001	6-15-15	7:45	B-001	WT	7	9.1		
2	002		7:55	B-002			9.1		
3	003		8:00	B-003			9.1		
4	004		8:55	B-004			4.5		
5	005		9:05	B-005			4.5		
6	006		9:10	B-006			4.5		
7	007		9:45	B-007			4.8		
8	008		10:35	B-008			5.5		
9	009		10:45	B-009			5.5		
10	010		11:50	B-011			5.1		
11	011		12:00	B-012			5.1		
12	012		12:40	B-013			4.6		
13	013		12:50	B-014			4.6		
14	014		8:20	B-015			4.8		

Filtered in Field

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
u-7	<i>[Signature]</i> / Gwen Trammell	6-15-15	12:30	<i>[Signature]</i> Ken Carouite	6/15/15	14:30
	<i>[Signature]</i> Ken Carouite	6-15-15	16:15	Kathy Trapp	6.16.15	11:55

SHIPPING INFO <input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input checked="" type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	MATRIX CODES Water WT Soil SL Solid SD Filter FT Other OT	TURNAROUND TIMES <input checked="" type="checkbox"/> Check desired service <input 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 INFORMATION 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 <input type="checkbox"/> Client	ADDITIONAL REMARKS
--	---	---	--	---------------------------



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

Client Name Comeco Resources		Project Identification MU 1 Stability Monitoring		Sampler (Signature/Attestation of Authenticity) <i>[Signature]</i>		Telephone # 307 358 6541	
Report Address PO Box 1210 Glenrock WY 82637		Contact Name Larry Wilbanks		ANALYSES / PARAMETERS			
Invoice Address		Email Larry.Wilbanks@comeco.com					
		Phone 307 358 6541 x427		Purchase Order # 4500 458 888		Quote #	

ITEM	LAB ID <i>(Lab Use Only)</i>	DATE	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	New Guideline	ANALYSES / PARAMETERS				Filtered / Preserved in Field
								Temp				
1	51506333 015	6-15-15	9:55	B-016	NT	7		3.6				
2	016		10:55	B-017				5.5				
3	017		12:10	B-018				5.1				
4	018		8:25	B-019				4.8				
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
607	<i>[Signature]</i> / Gwen Trammell	6-15-15	2:30	<i>[Signature]</i> / Ken Garbrite	6-15-15	1430
	<i>[Signature]</i>			Kathy Bond	6-16-15	11:55

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 checked="" 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? (Y) N Program (SDWA, NPDES,...) PWSID / Permit # _____ Chlorinated? (Y) N Sample Disposal: Lab _____ Client _____	



Date: 7/17/2015

CLIENT: Power Resources (Cameco)
Project: MU1 Stability Monitoring
Lab Order: S1506333

CASE NARRATIVE
Report ID: S1506333001

Samples B-001, B-002, B-003, B-004, B-005, B-006, B-007, B-008, B-009, B-011, B-012, B-013, B-014, B-015, B-016, B-017, B-018, and B-019 were received on June 16, 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.

Qualifiers by sample

S1506333-016 - Nitrogen, Ammonia (as N)/Nitrogen, Ammonia (As N) - Analyte detected below quantitation limits
S1506333-016 - Nitrogen, Ammonia (as N)/Nitrogen, Ammonia (As N) - Spike Recovery outside accepted recovery limits
S1506333-014 - Dissolved Metals by ICP - EPA 200.7 - Water/Beryllium - 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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-001
ClientSample ID: B-001
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 7:45:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	107	mg/L		5	SM 2320B	06/16/2015 2039	MRL
Alkalinity, Bicarbonate as HCO3	130	mg/L		5	SM 2320B	06/16/2015 2039	MRL
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/16/2015 2039	MRL
Chloride	10	mg/L		1	EPA 300.0	06/26/2015 639	AB
Fluoride	0.1	mg/L		0.1	SM 4500FC	06/16/2015 2039	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1845	AMB
Sulfate	73	mg/L		1	EPA 300.0	06/26/2015 639	AB
Calcium	43	mg/L		1	EPA 200.7	06/17/2015 1229	DG
Magnesium	12	mg/L		1	EPA 200.7	06/17/2015 1229	DG
Potassium	6	mg/L		1	EPA 200.7	06/17/2015 1229	DG
Sodium	15	mg/L		1	EPA 200.7	06/17/2015 1229	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/19/2015 1633	AMB
Silica as SiO2	14	mg/L		1	EPA 200.7	06/17/2015 1229	DG
General Parameters							
pH	7.3	s.u.		0.1	SM 4500 H B	06/16/2015 2039	MRL
Electrical Conductivity	389	µmhos/cm		5	SM 2510B	06/16/2015 2039	MRL
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	06/16/2015 1357	TS
Data Quality							
Cation Sum	3.92	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Anion Sum	3.95	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Cation-Anion Balance (± 5%)	0.42	%		0.01	SM 1030E	06/29/2015 1623	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	06/29/2015 1623	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	07/08/2015 1207	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-001
ClientSample ID: B-001
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 7:45:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1229	DG
Arsenic	0.019	mg/L		0.001	EPA 200.8	06/16/2015 1934	MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 1934	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1229	DG
Boron	0.1	mg/L		0.1	EPA 200.7	06/17/2015 1229	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 1934	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1229	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 1934	MS
Iron	2.69	mg/L		0.05	EPA 200.7	06/17/2015 1229	DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 1934	MS
Manganese	0.08	mg/L		0.01	EPA 200.7	06/17/2015 1229	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1231	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 1934	MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1229	DG
Selenium	0.006	mg/L		0.001	EPA 200.8	06/16/2015 1934	MS
Uranium	0.0305	mg/L		0.0003	EPA 200.8	06/16/2015 1934	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 1934	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1229	DG

Metals - Total

Iron	2.67	mg/L		0.05	EPA 200.7	06/17/2015 1726	DG
Manganese	0.08	mg/L		0.01	EPA 200.7	06/17/2015 1726	DG

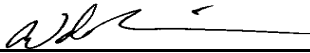
Radionuclides - Dissolved

Gross Alpha	613	pCi/L		2	SM 7110B	06/26/2015 2002	MB
Gross Alpha Precision (±)	10.8	pCi/L			SM 7110B	06/26/2015 2002	MB
Gross Beta	240	pCi/L		3	SM 7110B	06/26/2015 2002	MB
Gross Beta Precision (±)	5.0	pCi/L			SM 7110B	06/26/2015 2002	MB
Radium 226	213	pCi/L		0.2	SM 7500 Ra-B	07/08/2015 817	WN
Radium 226 Precision (±)	1.7	pCi/L			SM 7500 Ra-B	07/08/2015 817	WN
Radium 228	3.9	pCi/L		1	Ga-Tech	07/02/2015 408	WN
Radium 228 Precision (±)	1.9	pCi/L			Ga-Tech	07/02/2015 408	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-002
ClientSample ID: B-002
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 7:55:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	211	mg/L		5	SM 2320B	06/16/2015 2051	MRL
Alkalinity, Bicarbonate as HCO3	258	mg/L		5	SM 2320B	06/16/2015 2051	MRL
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/16/2015 2051	MRL
Chloride	14	mg/L		1	EPA 300.0	06/26/2015 652	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/16/2015 2051	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1846	AMB
Sulfate	96	mg/L		1	EPA 300.0	06/26/2015 652	AB
Calcium	74	mg/L		1	EPA 200.7	06/17/2015 1231	DG
Magnesium	19	mg/L		1	EPA 200.7	06/17/2015 1231	DG
Potassium	8	mg/L		1	EPA 200.7	06/17/2015 1231	DG
Sodium	19	mg/L		1	EPA 200.7	06/17/2015 1231	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/19/2015 1634	AMB
Silica as SiO2	13	mg/L		1	EPA 200.7	06/17/2015 1231	DG
General Parameters							
pH	7.6	s.u.		0.1	SM 4500 H B	06/16/2015 2051	MRL
Electrical Conductivity	593	µmhos/cm		5	SM 2510B	06/16/2015 2051	MRL
Total Dissolved Solids (180)	390	mg/L		10	SM 2540	06/16/2015 1358	TS
Data Quality							
Cation Sum	6.35	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Anion Sum	6.62	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Cation-Anion Balance (± 5%)	2.11	%		0.01	SM 1030E	06/29/2015 1623	JJ
Solids, Total Dissolved (Calc)	370	mg/L		10	SM 1030E	06/29/2015 1623	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.05	dec. %		0.01	Calculation	07/08/2015 1207	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: 7/17/2015
Report ID: S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-002
ClientSample ID: B-002
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 7:55:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1231 DG
Arsenic	0.006	mg/L		0.001	EPA 200.8	06/16/2015 1956 MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 1956 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1231 DG
Boron	0.1	mg/L		0.1	EPA 200.7	06/17/2015 1231 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 1956 MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1231 DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 1956 MS
Iron	0.51	mg/L		0.05	EPA 200.7	06/17/2015 1231 DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 1956 MS
Manganese	0.08	mg/L		0.01	EPA 200.7	06/17/2015 1231 DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1233 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 1956 MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1231 DG
Selenium	0.099	mg/L		0.001	EPA 200.8	06/16/2015 1956 MS
Uranium	1.59	mg/L		0.0003	EPA 200.8	06/16/2015 1956 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 1956 MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1231 DG

Metals - Total

Iron	0.55	mg/L		0.05	EPA 200.7	06/17/2015 1728 DG
Manganese	0.08	mg/L		0.01	EPA 200.7	06/17/2015 1728 DG

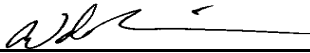
Radionuclides - Dissolved

Gross Alpha	1410	pCi/L		2	SM 7110B	06/26/2015 2002 MB
Gross Alpha Precision (±)	18.1	pCi/L			SM 7110B	06/26/2015 2002 MB
Gross Beta	520	pCi/L		3	SM 7110B	06/26/2015 2002 MB
Gross Beta Precision (±)	7.5	pCi/L			SM 7110B	06/26/2015 2002 MB
Radium 226	406	pCi/L		0.2	SM 7500 Ra-B	07/08/2015 1207 WN
Radium 226 Precision (±)	2.3	pCi/L			SM 7500 Ra-B	07/08/2015 1207 WN
Radium 228	4.3	pCi/L		1	Ga-Tech	07/02/2015 609 WN
Radium 228 Precision (±)	2.4	pCi/L			Ga-Tech	07/02/2015 609 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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-003
ClientSample ID: B-003
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 8:00:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
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: 7/17/2015
Report ID: S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-003
ClientSample ID: B-003
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 8:00:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1233 DG
Arsenic	0.014	mg/L		0.001	EPA 200.8	06/16/2015 2001 MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2001 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1233 DG
Boron	ND	mg/L		0.1	EPA 200.7	06/17/2015 1233 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2001 MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1233 DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 2001 MS
Iron	5.07	mg/L		0.05	EPA 200.7	06/17/2015 1233 DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 2001 MS
Manganese	0.16	mg/L		0.01	EPA 200.7	06/17/2015 1233 DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1235 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 2001 MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1233 DG
Selenium	0.063	mg/L		0.001	EPA 200.8	06/16/2015 2001 MS
Uranium	0.272	mg/L		0.0003	EPA 200.8	06/16/2015 2001 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2001 MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1233 DG

Metals - Total

Iron	4.85	mg/L		0.05	EPA 200.7	06/17/2015 1730 DG
Manganese	0.16	mg/L		0.01	EPA 200.7	06/17/2015 1730 DG

Radionuclides - Dissolved

Gross Alpha	1540	pCi/L		2	SM 7110B	06/26/2015 2002 MB
Gross Alpha Precision (±)	17.5	pCi/L			SM 7110B	06/26/2015 2002 MB
Gross Beta	740	pCi/L		3	SM 7110B	06/26/2015 2002 MB
Gross Beta Precision (±)	8.7	pCi/L			SM 7110B	06/26/2015 2002 MB
Radium 226	861	pCi/L		0.2	SM 7500 Ra-B	07/08/2015 1207 WN
Radium 226 Precision (±)	3.3	pCi/L			SM 7500 Ra-B	07/08/2015 1207 WN
Radium 228	6.9	pCi/L		1	Ga-Tech	07/02/2015 810 WN
Radium 228 Precision (±)	1.7	pCi/L			Ga-Tech	07/02/2015 810 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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-004
ClientSample ID: B-004
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 8:55:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	158	mg/L		5	SM 2320B	06/16/2015 2113	MRL
Alkalinity, Bicarbonate as HCO3	192	mg/L		5	SM 2320B	06/16/2015 2113	MRL
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/16/2015 2113	MRL
Chloride	6	mg/L		1	EPA 300.0	06/26/2015 955	AB
Fluoride	0.1	mg/L		0.1	SM 4500FC	06/16/2015 2113	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1858	AMB
Sulfate	119	mg/L		1	EPA 300.0	06/26/2015 955	AB
Calcium	66	mg/L		1	EPA 200.7	06/17/2015 1235	DG
Magnesium	16	mg/L		1	EPA 200.7	06/17/2015 1235	DG
Potassium	8	mg/L		1	EPA 200.7	06/17/2015 1235	DG
Sodium	21	mg/L		1	EPA 200.7	06/17/2015 1235	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/19/2015 1637	AMB
Silica as SiO2	12	mg/L		1	EPA 200.7	06/17/2015 1235	DG
General Parameters							
pH	7.4	s.u.		0.1	SM 4500 H B	06/16/2015 2113	MRL
Electrical Conductivity	536	µmhos/cm		5	SM 2510B	06/16/2015 2113	MRL
Total Dissolved Solids (180)	360	mg/L		10	SM 2540	06/16/2015 1401	TS
Data Quality							
Cation Sum	5.69	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Anion Sum	5.81	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Cation-Anion Balance (± 5%)	1.01	%		0.01	SM 1030E	06/29/2015 1623	JJ
Solids, Total Dissolved (Calc)	340	mg/L		10	SM 1030E	06/29/2015 1623	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.06	dec. %		0.01	Calculation	07/08/2015 1207	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-004
ClientSample ID: B-004
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 8:55:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1235	DG
Arsenic	0.038	mg/L		0.001	EPA 200.8	06/16/2015 2007	MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2007	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1235	DG
Boron	ND	mg/L		0.1	EPA 200.7	06/17/2015 1235	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2007	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1235	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 2007	MS
Iron	2.63	mg/L		0.05	EPA 200.7	06/17/2015 1235	DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 2007	MS
Manganese	0.10	mg/L		0.01	EPA 200.7	06/17/2015 1235	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1237	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 2007	MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1235	DG
Selenium	0.023	mg/L		0.001	EPA 200.8	06/16/2015 2007	MS
Uranium	3.11	mg/L		0.0003	EPA 200.8	06/16/2015 2007	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2007	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1235	DG

Metals - Total

Iron	2.69	mg/L		0.05	EPA 200.7	06/17/2015 1733	DG
Manganese	0.10	mg/L		0.01	EPA 200.7	06/17/2015 1733	DG

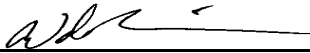
Radionuclides - Dissolved

Gross Alpha	3160	pCi/L		2	SM 7110B	06/26/2015 2002	MB
Gross Alpha Precision (±)	26.0	pCi/L			SM 7110B	06/26/2015 2002	MB
Gross Beta	1120	pCi/L		3	SM 7110B	06/26/2015 2002	MB
Gross Beta Precision (±)	10.9	pCi/L			SM 7110B	06/26/2015 2002	MB
Radium 226	596	pCi/L		0.2	SM 7500 Ra-B	07/08/2015 1207	WN
Radium 226 Precision (±)	2.8	pCi/L			SM 7500 Ra-B	07/08/2015 1207	WN
Radium 228	11.8	pCi/L		1	Ga-Tech	07/02/2015 1011	WN
Radium 228 Precision (±)	2.1	pCi/L			Ga-Tech	07/02/2015 1011	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: 7/17/2015
Report ID: S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-005
ClientSample ID: B-005
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 9:05:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	125	mg/L		5	SM 2320B	06/16/2015 2124	MRL
Alkalinity, Bicarbonate as HCO3	153	mg/L		5	SM 2320B	06/16/2015 2124	MRL
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/16/2015 2124	MRL
Chloride	7	mg/L		1	EPA 300.0	06/28/2015 1504	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/16/2015 2124	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1900	AMB
Sulfate	50	mg/L		1	EPA 300.0	06/28/2015 1504	AB
Calcium	42	mg/L		1	EPA 200.7	06/17/2015 1237	DG
Magnesium	10	mg/L		1	EPA 200.7	06/17/2015 1237	DG
Potassium	6	mg/L		1	EPA 200.7	06/17/2015 1237	DG
Sodium	11	mg/L		1	EPA 200.7	06/17/2015 1237	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/19/2015 1638	AMB
Silica as SiO2	12	mg/L		1	EPA 200.7	06/17/2015 1237	DG
General Parameters							
pH	7.6	s.u.		0.1	SM 4500 H B	06/16/2015 2124	MRL
Electrical Conductivity	351	µmhos/cm		5	SM 2510B	06/16/2015 2124	MRL
Total Dissolved Solids (180)	220	mg/L		10	SM 2540	06/16/2015 1402	TS
Data Quality							
Cation Sum	3.56	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Anion Sum	3.75	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Cation-Anion Balance (± 5%)	2.60	%		0.01	SM 1030E	06/29/2015 1623	JJ
Solids, Total Dissolved (Calc)	210	mg/L		10	SM 1030E	06/29/2015 1623	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.05	dec. %		0.01	Calculation	07/08/2015 1207	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-005
ClientSample ID: B-005
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 9:05:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1237	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	06/16/2015 2012	MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2012	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1237	DG
Boron	ND	mg/L		0.1	EPA 200.7	06/17/2015 1237	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2012	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1237	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 2012	MS
Iron	0.98	mg/L		0.05	EPA 200.7	06/17/2015 1237	DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 2012	MS
Manganese	0.06	mg/L		0.01	EPA 200.7	06/17/2015 1237	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1239	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 2012	MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1237	DG
Selenium	0.022	mg/L		0.001	EPA 200.8	06/16/2015 2012	MS
Uranium	0.214	mg/L		0.0003	EPA 200.8	06/16/2015 2012	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2012	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1237	DG

Metals - Total

Iron	0.97	mg/L		0.05	EPA 200.7	06/17/2015 1735	DG
Manganese	0.06	mg/L		0.01	EPA 200.7	06/17/2015 1735	DG

Radionuclides - Dissolved

Gross Alpha	575	pCi/L		2	SM 7110B	06/26/2015 2002	MB
Gross Alpha Precision (±)	10.9	pCi/L			SM 7110B	06/26/2015 2002	MB
Gross Beta	217	pCi/L		3	SM 7110B	06/26/2015 2002	MB
Gross Beta Precision (±)	5.1	pCi/L			SM 7110B	06/26/2015 2002	MB
Radium 226	259	pCi/L		0.2	SM 7500 Ra-B	07/08/2015 1207	WN
Radium 226 Precision (±)	2.1	pCi/L			SM 7500 Ra-B	07/08/2015 1207	WN
Radium 228	ND	pCi/L		1	Ga-Tech	07/02/2015 1211	WN
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	07/02/2015 1211	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-006
ClientSample ID: B-006
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 9:10:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

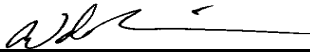
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	153	mg/L		5	SM 2320B	06/16/2015 2135	MRL
Alkalinity, Bicarbonate as HCO3	186	mg/L		5	SM 2320B	06/16/2015 2135	MRL
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/16/2015 2135	MRL
Chloride	11	mg/L		1	EPA 300.0	06/26/2015 1022	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/16/2015 2135	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1907	AMB
Sulfate	115	mg/L		1	EPA 300.0	06/26/2015 1022	AB
Calcium	64	mg/L		1	EPA 200.7	06/17/2015 1240	DG
Magnesium	16	mg/L		1	EPA 200.7	06/17/2015 1240	DG
Potassium	7	mg/L		1	EPA 200.7	06/17/2015 1240	DG
Sodium	20	mg/L		1	EPA 200.7	06/17/2015 1240	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/19/2015 1640	AMB
Silica as SiO2	13	mg/L		1	EPA 200.7	06/17/2015 1240	DG
General Parameters							
pH	7.4	s.u.		0.1	SM 4500 H B	06/16/2015 2135	MRL
Electrical Conductivity	538	µmhos/cm		5	SM 2510B	06/16/2015 2135	MRL
Total Dissolved Solids (180)	360	mg/L		10	SM 2540	06/16/2015 1403	TS
Data Quality							
Cation Sum	5.59	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Anion Sum	5.75	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Cation-Anion Balance (± 5%)	1.43	%		0.01	SM 1030E	06/29/2015 1623	JJ
Solids, Total Dissolved (Calc)	340	mg/L		10	SM 1030E	06/29/2015 1623	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.06	dec. %		0.01	Calculation	07/08/2015 1207	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-006
ClientSample ID: B-006
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 9:10:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1240 DG
Arsenic	0.016	mg/L		0.001	EPA 200.8	06/16/2015 2018 MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2018 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1240 DG
Boron	ND	mg/L		0.1	EPA 200.7	06/17/2015 1240 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2018 MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1240 DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 2018 MS
Iron	6.56	mg/L		0.05	EPA 200.7	06/17/2015 1240 DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 2018 MS
Manganese	0.10	mg/L		0.01	EPA 200.7	06/17/2015 1240 DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1241 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 2018 MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1240 DG
Selenium	0.014	mg/L		0.001	EPA 200.8	06/16/2015 2018 MS
Uranium	0.895	mg/L		0.0003	EPA 200.8	06/16/2015 2018 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2018 MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1240 DG

Metals - Total

Iron	7.85	mg/L		0.05	EPA 200.7	06/17/2015 1739 DG
Manganese	0.10	mg/L		0.01	EPA 200.7	06/17/2015 1739 DG

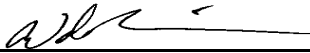
Radionuclides - Dissolved

Gross Alpha	1750	pCi/L		2	SM 7110B	06/26/2015 2002 MB
Gross Alpha Precision (±)	20.7	pCi/L			SM 7110B	06/26/2015 2002 MB
Gross Beta	578	pCi/L		3	SM 7110B	06/26/2015 2002 MB
Gross Beta Precision (±)	8.3	pCi/L			SM 7110B	06/26/2015 2002 MB
Radium 226	536	pCi/L		0.2	SM 7500 Ra-B	07/08/2015 1207 WN
Radium 226 Precision (±)	2.8	pCi/L			SM 7500 Ra-B	07/08/2015 1207 WN
Radium 228	8.0	pCi/L		1	Ga-Tech	07/02/2015 1412 WN
Radium 228 Precision (±)	2.7	pCi/L			Ga-Tech	07/02/2015 1412 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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-007
ClientSample ID: B-007
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 9:45:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Anions/Cations

Alkalinity, Total (As CaCO3)	171	mg/L		5	SM 2320B	06/16/2015 2147	MRL
Alkalinity, Bicarbonate as HCO3	208	mg/L		5	SM 2320B	06/16/2015 2147	MRL
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/16/2015 2147	MRL
Chloride	12	mg/L		1	EPA 300.0	06/26/2015 1036	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/16/2015 2147	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/23/2015 1622	AMB
Sulfate	73	mg/L		1	EPA 300.0	06/26/2015 1036	AB
Calcium	60	mg/L		1	EPA 200.7	06/17/2015 1244	DG
Magnesium	15	mg/L		1	EPA 200.7	06/17/2015 1244	DG
Potassium	7	mg/L		1	EPA 200.7	06/17/2015 1244	DG
Sodium	13	mg/L		1	EPA 200.7	06/17/2015 1244	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/19/2015 1649	AMB
Silica as SiO2	12	mg/L		1	EPA 200.7	06/17/2015 1244	DG

General Parameters

pH	7.8	s.u.		0.1	SM 4500 H B	06/16/2015 2147	MRL
Electrical Conductivity	491	µmhos/cm		5	SM 2510B	06/16/2015 2147	MRL
Total Dissolved Solids (180)	320	mg/L		10	SM 2540	06/16/2015 1404	TS

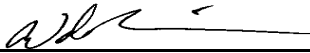
Data Quality

Cation Sum	4.96	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Anion Sum	5.28	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Cation-Anion Balance (± 5%)	3.10	%		0.01	SM 1030E	06/29/2015 1623	JJ
Solids, Total Dissolved (Calc)	290	mg/L		10	SM 1030E	06/29/2015 1623	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.10	dec. %		0.01	Calculation	07/08/2015 1207	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-007
ClientSample ID: B-007
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 9:45:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1244 DG
Arsenic	0.011	mg/L		0.001	EPA 200.8	06/16/2015 2034 MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2034 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1244 DG
Boron	ND	mg/L		0.1	EPA 200.7	06/17/2015 1244 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2034 MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1244 DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 2034 MS
Iron	1.24	mg/L		0.05	EPA 200.7	06/17/2015 1244 DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 2034 MS
Manganese	0.14	mg/L		0.01	EPA 200.7	06/17/2015 1244 DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1251 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 2034 MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1244 DG
Selenium	0.002	mg/L		0.001	EPA 200.8	06/16/2015 2034 MS
Uranium	0.566	mg/L		0.0003	EPA 200.8	06/16/2015 2034 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2034 MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1244 DG

Metals - Total

Iron	1.37	mg/L		0.05	EPA 200.7	06/17/2015 1746 DG
Manganese	0.14	mg/L		0.01	EPA 200.7	06/17/2015 1746 DG

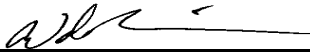
Radionuclides - Dissolved

Gross Alpha	806	pCi/L		2	SM 7110B	06/26/2015 2002 MB
Gross Alpha Precision (±)	13.7	pCi/L			SM 7110B	06/26/2015 2002 MB
Gross Beta	279	pCi/L		3	SM 7110B	06/26/2015 2002 MB
Gross Beta Precision (±)	5.8	pCi/L			SM 7110B	06/26/2015 2002 MB
Radium 226	382	pCi/L		0.2	SM 7500 Ra-B	07/08/2015 1207 WN
Radium 226 Precision (±)	2.4	pCi/L			SM 7500 Ra-B	07/08/2015 1207 WN
Radium 228	2.0	pCi/L		1	Ga-Tech	07/02/2015 1613 WN
Radium 228 Precision (±)	2.2	pCi/L			Ga-Tech	07/02/2015 1613 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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-008
ClientSample ID: B-008
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 10:35:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-008
ClientSample ID: B-008
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 10:35:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1257 DG
Arsenic	0.009	mg/L		0.001	EPA 200.8	06/16/2015 2040 MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2040 MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1257 DG
Boron	0.1	mg/L		0.1	EPA 200.7	06/17/2015 1257 DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2040 MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1257 DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 2040 MS
Iron	0.88	mg/L		0.05	EPA 200.7	06/17/2015 1257 DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 2040 MS
Manganese	0.07	mg/L		0.01	EPA 200.7	06/17/2015 1257 DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1258 AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 2040 MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1257 DG
Selenium	0.059	mg/L		0.001	EPA 200.8	06/16/2015 2040 MS
Uranium	0.735	mg/L		0.0003	EPA 200.8	06/16/2015 2040 MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2040 MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1257 DG

Metals - Total

Iron	1.03	mg/L		0.05	EPA 200.7	06/17/2015 1755 DG
Manganese	0.07	mg/L		0.01	EPA 200.7	06/17/2015 1755 DG

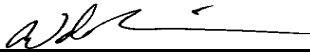
Radionuclides - Dissolved

Gross Alpha	1020	pCi/L		2	SM 7110B	06/26/2015 2002 MB
Gross Alpha Precision (±)	14.9	pCi/L			SM 7110B	06/26/2015 2002 MB
Gross Beta	425	pCi/L		3	SM 7110B	06/26/2015 2002 MB
Gross Beta Precision (±)	7.1	pCi/L			SM 7110B	06/26/2015 2002 MB
Radium 226	438	pCi/L		0.2	SM 7500 Ra-B	07/08/2015 1207 WN
Radium 226 Precision (±)	2.6	pCi/L			SM 7500 Ra-B	07/08/2015 1207 WN
Radium 228	2.9	pCi/L		1	Ga-Tech	07/02/2015 1814 WN
Radium 228 Precision (±)	2.5	pCi/L			Ga-Tech	07/02/2015 1814 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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-009
ClientSample ID: B-009
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 10:45:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-009
ClientSample ID: B-009
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 10:45:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1259	DG
Arsenic	0.016	mg/L		0.001	EPA 200.8	06/16/2015 2045	MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2045	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1259	DG
Boron	ND	mg/L		0.1	EPA 200.7	06/17/2015 1259	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2045	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1259	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 2045	MS
Iron	2.74	mg/L		0.05	EPA 200.7	06/17/2015 1259	DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 2045	MS
Manganese	0.17	mg/L		0.01	EPA 200.7	06/17/2015 1259	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1300	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 2045	MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1259	DG
Selenium	0.003	mg/L		0.001	EPA 200.8	06/16/2015 2045	MS
Uranium	0.927	mg/L		0.0003	EPA 200.8	06/16/2015 2045	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2045	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1259	DG

Metals - Total

Iron	3.11	mg/L		0.05	EPA 200.7	06/17/2015 1758	DG
Manganese	0.17	mg/L		0.01	EPA 200.7	06/17/2015 1758	DG

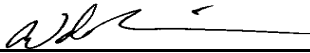
Radionuclides - Dissolved

Gross Alpha	942	pCi/L		2	SM 7110B	06/26/2015 2002	MB
Gross Alpha Precision (±)	15.5	pCi/L			SM 7110B	06/26/2015 2002	MB
Gross Beta	288	pCi/L		3	SM 7110B	06/26/2015 2002	MB
Gross Beta Precision (±)	5.9	pCi/L			SM 7110B	06/26/2015 2002	MB
Radium 226	251	pCi/L		0.2	SM 7500 Ra-B	07/08/2015 1207	WN
Radium 226 Precision (±)	1.9	pCi/L			SM 7500 Ra-B	07/08/2015 1207	WN
Radium 228	2.1	pCi/L		1	Ga-Tech	07/02/2015 2015	WN
Radium 228 Precision (±)	2.0	pCi/L			Ga-Tech	07/02/2015 2015	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-010
ClientSample ID: B-011
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 11:50:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
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: 7/17/2015
Report ID: S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-010
ClientSample ID: B-011
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 11:50:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1302	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	06/16/2015 2051	MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2051	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1302	DG
Boron	ND	mg/L		0.1	EPA 200.7	06/17/2015 1302	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2051	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1302	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 2051	MS
Iron	0.32	mg/L		0.05	EPA 200.7	06/17/2015 1302	DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 2051	MS
Manganese	0.07	mg/L		0.01	EPA 200.7	06/17/2015 1302	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1302	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 2051	MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1302	DG
Selenium	0.014	mg/L		0.001	EPA 200.8	06/16/2015 2051	MS
Uranium	1.67	mg/L		0.0003	EPA 200.8	06/16/2015 2051	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2051	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1302	DG

Metals - Total

Iron	0.50	mg/L		0.05	EPA 200.7	06/17/2015 1800	DG
Manganese	0.07	mg/L		0.01	EPA 200.7	06/17/2015 1800	DG

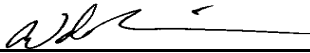
Radionuclides - Dissolved

Gross Alpha	1470	pCi/L		2	SM 7110B	06/26/2015 2002	MB
Gross Alpha Precision (±)	20.1	pCi/L			SM 7110B	06/26/2015 2002	MB
Gross Beta	416	pCi/L		3	SM 7110B	06/26/2015 2002	MB
Gross Beta Precision (±)	7.1	pCi/L			SM 7110B	06/26/2015 2002	MB
Radium 226	292	pCi/L		0.2	SM 7500 Ra-B	07/08/2015 1207	WN
Radium 226 Precision (±)	2.0	pCi/L			SM 7500 Ra-B	07/08/2015 1207	WN
Radium 228	3.7	pCi/L		1	Ga-Tech	07/02/2015 2216	WN
Radium 228 Precision (±)	2.0	pCi/L			Ga-Tech	07/02/2015 2216	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-011
ClientSample ID: B-012
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 12:00:00 PM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-011
ClientSample ID: B-012
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 12:00:00 PM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
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 Alpha Precision, Gross Beta, Gross Beta Precision, Radium 226, Radium 226 Precision, Radium 228, Radium 228 Precision) with their respective 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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-012
ClientSample ID: B-013
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 12:40:00 PM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-012
ClientSample ID: B-013
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 12:40:00 PM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-013
ClientSample ID: B-014
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 12:50:00 PM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	137	mg/L		5	SM 2320B	06/16/2015 2308	MRL
Alkalinity, Bicarbonate as HCO3	168	mg/L		5	SM 2320B	06/16/2015 2308	MRL
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/16/2015 2308	MRL
Chloride	6	mg/L		1	EPA 300.0	06/26/2015 1819	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/16/2015 2308	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/23/2015 1640	AMB
Sulfate	57	mg/L		1	EPA 300.0	06/26/2015 1819	AB
Calcium	45	mg/L		1	EPA 200.7	06/17/2015 1315	DG
Magnesium	11	mg/L		1	EPA 200.7	06/17/2015 1315	DG
Potassium	7	mg/L		1	EPA 200.7	06/17/2015 1315	DG
Sodium	14	mg/L		1	EPA 200.7	06/17/2015 1315	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/19/2015 1657	AMB
Silica as SiO2	11	mg/L		1	EPA 200.7	06/17/2015 1315	DG
General Parameters							
pH	7.6	s.u.		0.1	SM 4500 H B	06/16/2015 2308	MRL
Electrical Conductivity	390	µmhos/cm		5	SM 2510B	06/16/2015 2308	MRL
Total Dissolved Solids (180)	230	mg/L		10	SM 2540	06/16/2015 1411	TS
Data Quality							
Cation Sum	3.98	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Anion Sum	4.12	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Cation-Anion Balance (± 5%)	1.72	%		0.01	SM 1030E	06/29/2015 1623	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	06/29/2015 1623	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	07/08/2015 1207	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-013
ClientSample ID: B-014
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 12:50:00 PM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1315	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	06/16/2015 2123	MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2123	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1315	DG
Boron	ND	mg/L		0.1	EPA 200.7	06/17/2015 1315	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2123	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1315	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 2123	MS
Iron	1.03	mg/L		0.05	EPA 200.7	06/17/2015 1315	DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 2123	MS
Manganese	0.06	mg/L		0.01	EPA 200.7	06/17/2015 1315	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1308	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 2123	MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1315	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	06/16/2015 2123	MS
Uranium	0.407	mg/L		0.0003	EPA 200.8	06/16/2015 2123	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2123	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1315	DG

Metals - Total

Iron	1.12	mg/L		0.05	EPA 200.7	06/17/2015 1814	DG
Manganese	0.06	mg/L		0.01	EPA 200.7	06/17/2015 1814	DG

Radionuclides - Dissolved

Gross Alpha	715	pCi/L		2	SM 7110B	06/30/2015 2123	MB
Gross Alpha Precision (±)	12.1	pCi/L			SM 7110B	06/30/2015 2123	MB
Gross Beta	260	pCi/L		3	SM 7110B	06/30/2015 2123	MB
Gross Beta Precision (±)	5.6	pCi/L			SM 7110B	06/30/2015 2123	MB
Radium 226	376	pCi/L		0.2	SM 7500 Ra-B	07/13/2015 1422	MB
Radium 226 Precision (±)	2.1	pCi/L			SM 7500 Ra-B	07/13/2015 1422	MB
Radium 228	2.7	pCi/L		1	Ga-Tech	07/13/2015 413	MB
Radium 228 Precision (±)	2.5	pCi/L			Ga-Tech	07/13/2015 413	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-014
ClientSample ID: B-015
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 8:20:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	78	mg/L		5	SM 2320B	06/16/2015 2319	MRL
Alkalinity, Bicarbonate as HCO3	95	mg/L		5	SM 2320B	06/16/2015 2319	MRL
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/16/2015 2319	MRL
Chloride	5	mg/L		1	EPA 300.0	06/26/2015 1832	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/16/2015 2319	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/23/2015 1642	AMB
Sulfate	22	mg/L		1	EPA 300.0	06/26/2015 1832	AB
Calcium	23	mg/L		1	EPA 200.7	06/17/2015 1319	DG
Magnesium	5	mg/L		1	EPA 200.7	06/17/2015 1319	DG
Potassium	4	mg/L		1	EPA 200.7	06/17/2015 1319	DG
Sodium	8	mg/L		1	EPA 200.7	06/17/2015 1319	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/19/2015 1658	AMB
Silica as SiO2	13	mg/L		1	EPA 200.7	06/17/2015 1319	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	06/16/2015 2319	MRL
Electrical Conductivity	209	µmhos/cm		5	SM 2510B	06/16/2015 2319	MRL
Total Dissolved Solids (180)	120	mg/L		10	SM 2540	06/16/2015 1412	TS
Data Quality							
Cation Sum	2.02	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Anion Sum	2.16	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Cation-Anion Balance (± 5%)	3.32	%		0.01	SM 1030E	06/29/2015 1623	JJ
Solids, Total Dissolved (Calc)	130	mg/L		10	SM 1030E	06/29/2015 1623	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	0.92	dec. %		0.01	Calculation	07/08/2015 1207	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-014
ClientSample ID: B-015
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 8:20:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
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 Alpha Precision, Gross Beta, Gross Beta Precision, Radium 226, Radium 226 Precision, Radium 228, Radium 228 Precision) with their results 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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-015
ClientSample ID: B-016
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 9:55:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Anions/Cations

Alkalinity, Total (As CaCO3)	141	mg/L		5	SM 2320B	06/16/2015 2330	MRL
Alkalinity, Bicarbonate as HCO3	172	mg/L		5	SM 2320B	06/16/2015 2330	MRL
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/16/2015 2330	MRL
Chloride	10	mg/L		1	EPA 300.0	06/26/2015 1846	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/16/2015 2330	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/23/2015 1643	AMB
Sulfate	81	mg/L		1	EPA 300.0	06/26/2015 1846	AB
Calcium	54	mg/L		1	EPA 200.7	06/17/2015 1333	DG
Magnesium	14	mg/L		1	EPA 200.7	06/17/2015 1333	DG
Potassium	8	mg/L		1	EPA 200.7	06/17/2015 1333	DG
Sodium	14	mg/L		1	EPA 200.7	06/17/2015 1333	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/19/2015 1700	AMB
Silica as SiO2	14	mg/L		1	EPA 200.7	06/17/2015 1333	DG

General Parameters

pH	7.5	s.u.		0.1	SM 4500 H B	06/16/2015 2330	MRL
Electrical Conductivity	451	µmhos/cm		5	SM 2510B	06/16/2015 2330	MRL
Total Dissolved Solids (180)	290	mg/L		10	SM 2540	06/16/2015 1413	TS

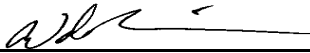
Data Quality

Cation Sum	4.64	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Anion Sum	4.79	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Cation-Anion Balance (± 5%)	1.52	%		0.01	SM 1030E	06/29/2015 1623	JJ
Solids, Total Dissolved (Calc)	280	mg/L		10	SM 1030E	06/29/2015 1623	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	07/08/2015 1207	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-015
ClientSample ID: B-016
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 9:55:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-016
ClientSample ID: B-017
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 10:55:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-016
ClientSample ID: B-017
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 10:55:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1335	DG
Arsenic	0.032	mg/L		0.001	EPA 200.8	06/16/2015 2151	MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2151	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1335	DG
Boron	ND	mg/L		0.1	EPA 200.7	06/17/2015 1335	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2151	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1335	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 2151	MS
Iron	1.58	mg/L		0.05	EPA 200.7	06/17/2015 1335	DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 2151	MS
Manganese	0.06	mg/L		0.01	EPA 200.7	06/17/2015 1335	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1324	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 2151	MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1335	DG
Selenium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2151	MS
Uranium	0.479	mg/L		0.0003	EPA 200.8	06/16/2015 2151	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2151	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1335	DG
Metals - Total							
Iron	3.76	mg/L		0.05	EPA 200.7	06/17/2015 1827	DG
Manganese	0.06	mg/L		0.01	EPA 200.7	06/17/2015 1827	DG
Radionuclides - Dissolved							
Gross Alpha	506	pCi/L		2	SM 7110B	06/30/2015 2123	MB
Gross Alpha Precision (±)	10.4	pCi/L			SM 7110B	06/30/2015 2123	MB
Gross Beta	185	pCi/L		3	SM 7110B	06/30/2015 2123	MB
Gross Beta Precision (±)	4.7	pCi/L			SM 7110B	06/30/2015 2123	MB
Radium 226	164	pCi/L		0.2	SM 7500 Ra-B	07/13/2015 1422	MB
Radium 226 Precision (±)	1.4	pCi/L			SM 7500 Ra-B	07/13/2015 1422	MB
Radium 228	ND	pCi/L		1	Ga-Tech	07/13/2015 1015	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	07/13/2015 1015	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-017
ClientSample ID: B-018
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 12:10:00 PM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

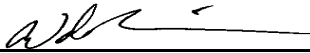
Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	109	mg/L		5	SM 2320B	06/17/2015 011	MRL
Alkalinity, Bicarbonate as HCO3	133	mg/L		5	SM 2320B	06/17/2015 011	MRL
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/17/2015 011	MRL
Chloride	7	mg/L		1	EPA 300.0	06/26/2015 1913	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/17/2015 011	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/23/2015 1646	AMB
Sulfate	37	mg/L		1	EPA 300.0	06/26/2015 1913	AB
Calcium	36	mg/L		1	EPA 200.7	06/17/2015 1337	DG
Magnesium	8	mg/L		1	EPA 200.7	06/17/2015 1337	DG
Potassium	6	mg/L		1	EPA 200.7	06/17/2015 1337	DG
Sodium	10	mg/L		1	EPA 200.7	06/17/2015 1337	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/19/2015 1710	AMB
Silica as SiO2	13	mg/L		1	EPA 200.7	06/17/2015 1337	DG
General Parameters							
pH	8.0	s.u.		0.1	SM 4500 H B	06/17/2015 011	MRL
Electrical Conductivity	302	µmhos/cm		5	SM 2510B	06/17/2015 011	MRL
Total Dissolved Solids (180)	200	mg/L		10	SM 2540	06/16/2015 1415	TS
Data Quality							
Cation Sum	3.02	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Anion Sum	3.15	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Cation-Anion Balance (± 5%)	2.09	%		0.01	SM 1030E	06/29/2015 1623	JJ
Solids, Total Dissolved (Calc)	180	mg/L		10	SM 1030E	06/29/2015 1623	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.11	dec. %		0.01	Calculation	07/08/2015 1207	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: 7/17/2015
Report ID: S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-017
ClientSample ID: B-018
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 12:10:00 PM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1337	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	06/16/2015 2156	MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2156	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1337	DG
Boron	ND	mg/L		0.1	EPA 200.7	06/17/2015 1337	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2156	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1337	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 2156	MS
Iron	0.96	mg/L		0.05	EPA 200.7	06/17/2015 1337	DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 2156	MS
Manganese	0.12	mg/L		0.01	EPA 200.7	06/17/2015 1337	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1326	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 2156	MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1337	DG
Selenium	0.010	mg/L		0.001	EPA 200.8	06/16/2015 2156	MS
Uranium	0.0937	mg/L		0.0003	EPA 200.8	06/16/2015 2156	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2156	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1337	DG

Metals - Total

Iron	1.15	mg/L		0.05	EPA 200.7	06/17/2015 1830	DG
Manganese	0.12	mg/L		0.01	EPA 200.7	06/17/2015 1830	DG

Radionuclides - Dissolved

Gross Alpha	260	pCi/L		2	SM 7110B	06/30/2015 2123	MB
Gross Alpha Precision (±)	7.1	pCi/L			SM 7110B	06/30/2015 2123	MB
Gross Beta	90.5	pCi/L		3	SM 7110B	06/30/2015 2123	MB
Gross Beta Precision (±)	3.4	pCi/L			SM 7110B	06/30/2015 2123	MB
Radium 226	149	pCi/L		0.2	SM 7500 Ra-B	07/13/2015 1422	MB
Radium 226 Precision (±)	1.4	pCi/L			SM 7500 Ra-B	07/13/2015 1422	MB
Radium 228	ND	pCi/L		1	Ga-Tech	07/13/2015 1216	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	07/13/2015 1216	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-018
ClientSample ID: B-019
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 8:25:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	105	mg/L		5	SM 2320B	06/17/2015 022	MRL
Alkalinity, Bicarbonate as HCO3	128	mg/L		5	SM 2320B	06/17/2015 022	MRL
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/17/2015 022	MRL
Chloride	4	mg/L		1	EPA 300.0	06/26/2015 1927	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/17/2015 022	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/23/2015 1648	AMB
Sulfate	34	mg/L		1	EPA 300.0	06/26/2015 1927	AB
Calcium	31	mg/L		1	EPA 200.7	06/17/2015 1339	DG
Magnesium	7	mg/L		1	EPA 200.7	06/17/2015 1339	DG
Potassium	5	mg/L		1	EPA 200.7	06/17/2015 1339	DG
Sodium	11	mg/L		1	EPA 200.7	06/17/2015 1339	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/19/2015 1722	AMB
Silica as SiO2	11	mg/L		1	EPA 200.7	06/17/2015 1339	DG
General Parameters							
pH	7.8	s.u.		0.1	SM 4500 H B	06/17/2015 022	MRL
Electrical Conductivity	278	µmhos/cm		5	SM 2510B	06/17/2015 022	MRL
Total Dissolved Solids (180)	180	mg/L		10	SM 2540	06/16/2015 1416	TS
Data Quality							
Cation Sum	2.75	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Anion Sum	2.92	meq/L		0.01	SM 1030E	06/29/2015 1623	JJ
Cation-Anion Balance (± 5%)	3.00	%		0.01	SM 1030E	06/29/2015 1623	JJ
Solids, Total Dissolved (Calc)	170	mg/L		10	SM 1030E	06/29/2015 1623	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.06	dec. %		0.01	Calculation	07/08/2015 1207	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 7/17/2015
Report ID S1506333001

ProjectName: MU1 Stability Monitoring
Lab ID: S1506333-018
ClientSample ID: B-019
COC: 154591 154589

WorkOrder: S1506333
CollectionDate: 6/15/2015 8:25:00 AM
DateReceived: 6/16/2015 11:55:00 AM
FieldSampler: GT
Matrix: Water

Comments

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

Metals - Dissolved

Aluminum	ND	mg/L		0.1	EPA 200.7	06/17/2015 1339	DG
Arsenic	0.007	mg/L		0.001	EPA 200.8	06/16/2015 2202	MS
Barium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2202	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	06/17/2015 1339	DG
Boron	ND	mg/L		0.1	EPA 200.7	06/17/2015 1339	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	06/16/2015 2202	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/17/2015 1339	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 2202	MS
Iron	0.65	mg/L		0.05	EPA 200.7	06/17/2015 1339	DG
Lead	ND	mg/L		0.01	EPA 200.8	06/16/2015 2202	MS
Manganese	0.06	mg/L		0.01	EPA 200.7	06/17/2015 1339	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1328	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	06/16/2015 2202	MS
Nickel	ND	mg/L		0.05	EPA 200.7	06/17/2015 1339	DG
Selenium	0.004	mg/L		0.001	EPA 200.8	06/16/2015 2202	MS
Uranium	0.257	mg/L		0.0003	EPA 200.8	06/16/2015 2202	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	06/16/2015 2202	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/17/2015 1339	DG

Metals - Total

Iron	0.66	mg/L		0.05	EPA 200.7	06/17/2015 1834	DG
Manganese	0.06	mg/L		0.01	EPA 200.7	06/17/2015 1834	DG

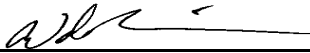
Radionuclides - Dissolved

Gross Alpha	852	pCi/L		2	SM 7110B	06/30/2015 2123	MB
Gross Alpha Precision (±)	12.7	pCi/L			SM 7110B	06/30/2015 2123	MB
Gross Beta	326	pCi/L		3	SM 7110B	06/30/2015 2123	MB
Gross Beta Precision (±)	6.2	pCi/L			SM 7110B	06/30/2015 2123	MB
Radium 226	327	pCi/L		0.2	SM 7500 Ra-B	07/13/2015 1422	MB
Radium 226 Precision (±)	2.0	pCi/L			SM 7500 Ra-B	07/13/2015 1422	MB
Radium 228	ND	pCi/L		1	Ga-Tech	07/13/2015 1417	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	07/13/2015 1417	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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Alkalinity		Sample Type	MBLK		Units: mg/L					
BLANK (06/16/15 17:32)	Analyte	RunNo:	122277	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Alkalinity, Total (As CaCO3)		ND		5					

Alkalinity		Sample Type	LCS		Units: mg/L					
ATQC (06/16/15 17:21)	Analyte	RunNo:	122277	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Alkalinity, Total (As CaCO3)		609		5	595		102	90 - 110	

Alkalinity		Sample Type	DUP		Units: mg/L					
S1506333-010A (06/16/15 22:32)	Analyte	RunNo:	122277	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
	Alkalinity, Bicarbonate as HCO3		271		5	273	0.775		20	
	Alkalinity, Carbonate as CO3		ND		5	ND			20	
	Alkalinity, Total (As CaCO3)		222		5	224	0.775		20	

Conductivity		Sample Type	MBLK		Units: µmhos/cm					
BLANK (06/16/15 17:32)	Analyte	RunNo:	122277	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Electrical Conductivity		ND		5					

Conductivity		Sample Type	LCS		Units: µmhos/cm					
ATQC (06/16/15 17:21)	Analyte	RunNo:	122277	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Electrical Conductivity		1040		5	1060		97.7	90 - 110	

Conductivity		Sample Type	DUP		Units: µmhos/cm					
S1506333-010A (06/16/15 22:32)	Analyte	RunNo:	122277	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
	Electrical Conductivity		615		5	614	0.163		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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Dissolved Mercury by EPA 245.1 - Water

Sample Type **MBLK**

Units: mg/L

LRB (06/19/15 09:02)	RunNo: 122469							
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 (06/19/15 09:00)	RunNo: 122469							
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Mercury	0.002	0.001	0.002		93.1	85 - 115		

Dissolved Mercury by EPA 245.1 - Water

Sample Type **MS**

Units: mg/L

S1506333-007D (06/19/15 12:55)	RunNo: 122469							
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Mercury	0.002	0.001	0.00197	ND	91.7	70 - 130		

S1506333-015D (06/19/15 13:20)	RunNo: 122469							
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Mercury	0.002	0.001	0.00197	ND	91.4	70 - 130		

Dissolved Mercury by EPA 245.1 - Water

Sample Type **MSD**

Units: mg/L

S1506333-007D (06/19/15 12:56)	RunNo: 122469							
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Mercury	0.002	0.001	0.002	1.92	93.5	20		

S1506333-015D (06/19/15 13:22)	RunNo: 122469							
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Mercury	0.002	0.001	0.002	1.22	90.2	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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Dissolved Metals by ICP - EPA 200.7 - Water

Sample Type **MBLK**

Units: mg/L

MBLK DISS/CAT (06/17/15 11:41)		RunNo: 122346						
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 (06/17/15 11:44)		RunNo: 122346						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Aluminum	1.0	0.1	1		97.0	85 - 115		
Beryllium	1.03	0.01	1		103	85 - 115		
Boron	1.0	0.1	1		95.9	85 - 115		
Chromium	1.00	0.01	1		99.8	85 - 115		
Iron	0.97	0.05	1		96.7	85 - 115		
Manganese	0.99	0.02	1		99.4	85 - 115		
Nickel	1.01	0.01	1		101	85 - 115		
Zinc	0.95	0.01	1		95.0	85 - 115		

Dissolved Metals by ICP - EPA 200.7 - Water

Sample Type **MS**

Units: mg/L

S1506333-007DS (06/17/15 12:46)		RunNo: 122346						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Aluminum	0.3	0.1	0.25	ND	99.2	70 - 130		
Beryllium	0.276	0.001	0.25	ND	110	70 - 130		
Boron	0.3	0.1	0.25	ND	101	70 - 130		
Chromium	0.26	0.01	0.25	ND	102	70 - 130		
Iron	1.43	0.05	0.25	1.24	75.5	70 - 130		
Manganese	0.39	0.01	0.25	0.14	101	70 - 130		
Nickel	0.27	0.05	0.25	ND	104	70 - 130		
Zinc	0.25	0.01	0.25	ND	99.5	70 - 130		

S1506333-014DS (06/17/15 13:22)		RunNo: 122346						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Aluminum	0.3	0.1	0.25	ND	120	70 - 130		
Beryllium	0.327	0.001	0.25	ND	131	70 - 130	S	
Boron	0.4	0.1	0.25	ND	121	70 - 130		
Chromium	0.32	0.01	0.25	ND	126	70 - 130		
Iron	1.34	0.05	0.25	1.10	97.6	70 - 130		
Manganese	0.35	0.01	0.25	0.04	123	70 - 130		
Nickel	0.32	0.05	0.25	ND	127	70 - 130		
Zinc	0.31	0.01	0.25	ND	123	70 - 130		

- 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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Dissolved Metals by ICP - EPA 200.7 - Water

Sample Type **MSD**

Units: mg/L

S1506333-007DSD (06/17/15 12:48)		RunNo: 122346					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Aluminum	0.3	0.1	0.3	0.389	99.6	20	
Beryllium	0.277	0.001	0.276	0.210	111	20	
Boron	0.3	0.1	0.3	2.30	104	20	
Chromium	0.26	0.01	0.26	1.05	103	20	
Iron	1.47	0.05	1.43	2.43	89.6	20	
Manganese	0.39	0.01	0.39	0.831	100	20	
Nickel	0.27	0.05	0.27	1.46	106	20	
Zinc	0.26	0.01	0.25	2.95	102	20	

S1506333-014DSD (06/17/15 13:24)		RunNo: 122346					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Aluminum	0.3	0.1	0.3	5.02	114	20	
Beryllium	0.308	0.001	0.327	6.07	123	20	
Boron	0.4	0.1	0.4	3.10	116	20	
Chromium	0.29	0.01	0.32	7.26	117	20	
Iron	1.32	0.05	1.34	1.36	90.4	20	
Manganese	0.33	0.01	0.35	5.59	115	20	
Nickel	0.31	0.05	0.32	5.25	120	20	
Zinc	0.29	0.01	0.31	5.63	116	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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

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

Units: mg/L

MBLK (06/16/15 14:06)		RunNo: 122272						
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 (06/16/15 14:01)		RunNo: 122272						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Arsenic	0.096	0.005	0.1		95.7	85 - 115		
Barium	0.1	0.1	0.1		106	85 - 115		
Cadmium	0.104	0.001	0.1		104	85 - 115		
Copper	0.10	0.01	0.1		99.4	85 - 115		
Lead	0.11	0.02	0.1		105	85 - 115		
Molybdenum	0.10	0.02	0.1		104	85 - 115		
Selenium	0.099	0.001	0.1		99.0	85 - 115		
Uranium	0.106	0.0003	0.1		106	85 - 115		
Vanadium	0.10	0.02	0.1		104	85 - 115		

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

Units: mg/L

S1506333-001DS (06/16/15 19:45)		RunNo: 122272						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Arsenic	1.05	0.001	1.1	0.019	94.0	70 - 130		
Barium	1.1	0.1	1.1	ND	96.1	70 - 130		
Cadmium	1.09	0.001	1.1	ND	98.8	70 - 130		
Copper	1.07	0.01	1.1	ND	96.9	70 - 130		
Lead	1.04	0.01	1.1	ND	94.7	70 - 130		
Molybdenum	1.11	0.01	1.1	ND	101	70 - 130		
Selenium	1.10	0.001	1.1	0.006	99.2	70 - 130		
Uranium	1.12	0.0003	1.1	0.0305	98.9	70 - 130		
Vanadium	1.1	0.1	1.1	ND	101	70 - 130		

S1506333-011DS (06/16/15 21:07)		RunNo: 122272						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Arsenic	1.03	0.001	1.1	0.006	93.2	70 - 130		
Barium	1.1	0.1	1.1	ND	96.9	70 - 130		
Cadmium	1.12	0.001	1.1	ND	102	70 - 130		
Copper	1.05	0.01	1.1	ND	95.2	70 - 130		
Lead	1.06	0.01	1.1	ND	96.0	70 - 130		
Molybdenum	1.11	0.01	1.1	ND	101	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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Dissolved Metals by ICPMS EPA 200.8 - Water

Sample Type **MS**

Units: mg/L

S1506333-011DS (06/16/15 21:07)		RunNo: 122272					
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Selenium	1.11	0.001	1.1	0.014	100	70 - 130	
Uranium	1.43	0.0003	1.1	0.314	101	70 - 130	
Vanadium	1.1	0.1	1.1	ND	103	70 - 130	

Dissolved Metals by ICPMS EPA 200.8 - Water

Sample Type **MSD**

Units: mg/L

S1506333-001DMSD (06/16/15 19:51)		RunNo: 122272					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Arsenic	1.07	0.001	1.05	2.04	96.0	20	
Barium	1.1	0.1	1.1	0.311	96.4	20	
Cadmium	1.08	0.001	1.09	0.577	98.3	20	
Copper	1.08	0.01	1.07	1.77	98.6	20	
Lead	1.05	0.01	1.04	1.07	95.8	20	
Molybdenum	1.14	0.01	1.11	2.77	104	20	
Selenium	1.10	0.001	1.10	0.121	99.3	20	
Uranium	1.14	0.0003	1.12	1.75	101	20	
Vanadium	1.1	0.1	1.1	1.05	102	20	

S1506333-011DMSD (06/16/15 21:12)		RunNo: 122272					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Arsenic	1.04	0.001	1.03	1.24	94.4	20	
Barium	1.1	0.1	1.1	4.27	101	20	
Cadmium	1.12	0.001	1.12	0.00468	102	20	
Copper	1.07	0.01	1.05	1.70	96.8	20	
Lead	1.11	0.01	1.06	5.16	101	20	
Molybdenum	1.18	0.01	1.11	5.56	107	20	
Selenium	1.11	0.001	1.11	0.0804	100	20	
Uranium	1.47	0.0003	1.43	2.99	105	20	
Vanadium	1.1	0.1	1.1	0.476	104	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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Fluoride by SM 4500		Sample Type	MBLK		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
BLANK (06/16/15 17:32)	122277								
Fluoride		ND	0.1						

Fluoride by SM 4500		Sample Type	LCS		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
ATQC (06/16/15 17:21)	122277								
Fluoride		2.9	0.1	3		98.1	85 - 115		

Fluoride by SM 4500		Sample Type	MS		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
S1506333-015A (06/16/15 23:39)	122277								
Fluoride		2.8	0.1	2.5	0.2	105	80 - 120		

Fluoride by SM 4500		Sample Type	MSD		Units: mg/L				
Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
S1506333-015A (06/16/15 23:43)	122277								
Fluoride		2.8	0.1	2.8	0.931	104	20		

Gross Alpha, Beta by SM 7110B		Sample Type	MBLK		Units: pCi/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
MB-332 (06/26/15 16:00)	122920								
Gross Alpha (Dissolved)		ND	2						
Gross Beta (Dissolved)		ND	3						

Gross Alpha, Beta by SM 7110B		Sample Type	LCS		Units: pCi/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
LCS-332 (06/26/15 16:00)	122920								
Gross Alpha (Dissolved)		72	2	72.6		99.6	59.5 - 130		
Gross Beta (Dissolved)		129	3	118		109	80 - 122		

Gross Alpha, Beta by SM 7110B		Sample Type	MS		Units: pCi/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
S1506333-001F MS (06/26/15 20:02)	122920								
Gross Beta (Dissolved)		383	3	118	240	121	61.4 - 150		

Gross Alpha, Beta by SM 7110B		Sample Type	MS		Units: pCi/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
S1506371-001D MS (06/26/15 16:00)	122920								
Gross Alpha (Dissolved)		231	2	290	ND	79.5	50 - 150		

Gross Alpha, Beta by SM 7110B		Sample Type	DUP		Units: pCi/L				
Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
S1506333-002F DUP (06/26/15 20:02)	122920								
Gross Alpha (Dissolved)		1720	2	1410	19.8		20		
Gross Beta (Dissolved)		524	3	520	0.764		20		

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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Anions by ION Chromatography

Sample Type **MBLK**

Units: mg/L

BLK (06/26/15 00:05)	RunNo: 122876						
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 (06/26/15 00:18)	RunNo: 122876						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Chloride	30	1	30		98.3	90 - 110	
Sulfate	144	1	150		96.1	90 - 110	

Anions by ION Chromatography

Sample Type **MS**

Units: mg/L

S1506333-002ASPK (06/26/15 08:33)	RunNo: 122876						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Chloride	74	1	54.5	14	109	80 - 120	
Sulfate	546	1	409	96	110	80 - 120	

S1506618-005ASPK (06/26/15 12:38)	RunNo: 122876						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Chloride	2660	1	918	1590	116	80 - 120	
Sulfate	8490	1	6890	1190	106	80 - 120	

S1506333-012ASPK (06/26/15 16:03)	RunNo: 122876						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Chloride	129	1	100	23	107	80 - 120	
Sulfate	1010	1	750	213	107	80 - 120	

Anions by ION Chromatography

Sample Type **MSD**

Units: mg/L

S1506333-002ASPK (06/26/15 08:47)	RunNo: 122876						
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Chloride	73	1	74	1.53	107	20	
Sulfate	531	1	546	2.82	106	20	

S1506618-005ASPK (06/26/15 12:52)	RunNo: 122876						
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Chloride	2590	1	2660	2.78	108	20	
Sulfate	8290	1	8490	2.42	103	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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Cations by ICP (Method 200.7)

Sample Type **MBLK**

Units: mg/L

MBLK DISS/CAT (06/17/15 11:41)		RunNo: 122340						
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 (06/17/15 11:46)		RunNo: 122340						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Calcium	38	1	40		95.9	85 - 115		
Magnesium	39	1	40		97.0	85 - 115		
Potassium	40	1	40		101	85 - 115		
Sodium	39	1	40		97.9	85 - 115		

Cations by ICP (Method 200.7)

Sample Type **MS**

Units: mg/L

S1506333-007AS (06/17/15 12:46)		RunNo: 122340						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Calcium	83	1	25	60	92.8	70 - 130		
Magnesium	39	1	25	15	93.5	70 - 130		
Potassium	34	1	25	7	109	70 - 130		
Sodium	38	1	25	13	100	70 - 130		

S1506333-014AS (06/17/15 13:22)		RunNo: 122340						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Calcium	53	1	25	23	118	70 - 130		
Magnesium	33	1	25	5	114	70 - 130		
Potassium	37	1	25	4	129	70 - 130		
Sodium	39	1	25	8	121	70 - 130		

Cations by ICP (Method 200.7)

Sample Type **MSD**

Units: mg/L

S1506333-007ASD (06/17/15 12:48)		RunNo: 122340						
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Calcium	84	1	83	1.68	98.4	20		
Magnesium	39	1	39	1.57	96.0	20		
Potassium	35	1	34	1.15	110	20		
Sodium	38	1	38	0.00610	100	20		

S1506333-014ASD (06/17/15 13:24)		RunNo: 122340						
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Calcium	51	1	53	2.63	113	20		
Magnesium	32	1	33	2.67	111	20		
Potassium	35	1	37	4.72	123	20		
Sodium	37	1	39	3.55	115	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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Nitrogen, Ammonia (as N)		Sample Type	MBLK		Units: mg/L				
BLANK (06/19/15 15:16)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Nitrogen, Ammonia (As N)	122533	ND	0.1					

Nitrogen, Ammonia (as N)		Sample Type	MS		Units: mg/L				
S1506333-016C (06/19/15 17:04)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Nitrogen, Ammonia (As N)	122533	2.1	0.1	2.5	ND	82.5	90 - 110	S

S1506333-018C (06/19/15 17:25)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Nitrogen, Ammonia (As N)	122533	2.2	0.1	2.5	ND	85.2	90 - 110	S

Nitrogen, Ammonia (as N)		Sample Type	DUP		Units: mg/L				
S1506333-006C (06/19/15 16:41)	Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
	Nitrogen, Ammonia (As N)	122533	0.2	0.1	0.2	1.42		20	

S1506333-016C (06/19/15 17:02)	Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
	Nitrogen, Ammonia (As N)	122533	ND	0.1	ND			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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Nitrogen, Nitrate-Nitrite (as N)		Sample Type	MBLK		Units: mg/L				
BLANK (06/23/15 13:19)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Nitrogen, Nitrate-Nitrite (as N)	122696	ND	0.1					

Nitrogen, Nitrate-Nitrite (as N)		Sample Type	LCS		Units: mg/L				
QC (06/23/15 13:22)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Nitrogen, Nitrate-Nitrite (as N)	122696	18.1	0.1	17.7		103	90 - 110	

Nitrogen, Nitrate-Nitrite (as N)		Sample Type	MS		Units: mg/L				
S1506333-002C (06/17/15 18:49)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Nitrogen, Nitrate-Nitrite (as N)	122382	2.5	0.1	2.5	ND	101	90 - 110	

S1506333-012C (06/23/15 16:33)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Nitrogen, Nitrate-Nitrite (as N)	122696	2.3	0.1	2.5	ND	92.4	90 - 110	

Nitrogen, Nitrate-Nitrite (as N)		Sample Type	MSD		Units: mg/L				
S1506333-002C (06/17/15 18:51)	Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
	Nitrogen, Nitrate-Nitrite (as N)	122382	2.5	0.1	2.5	0.997	99.8	20	

S1506333-012C (06/23/15 16:34)	Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
	Nitrogen, Nitrate-Nitrite (as N)	122696	2.4	0.1	2.3	2.65	94.9	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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Radium 228 by Ga/Tech		Sample Type	MBLK		Units: pCi/L			
MB-10385 (07/01/15 12:01)	Analyte	RunNo: 123083	PrepDate: 06/22/15 0:00	BatchID: 10385				
		Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Radium 228 (Dissolved)	ND	1					

MB-10457 (07/12/15 18:08)	Analyte	RunNo: 123711	PrepDate: 06/23/15 9:00	BatchID: 10457				
		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-10385 (07/01/15 14:02)	Analyte	RunNo: 123083	PrepDate: 06/22/15 0:00	BatchID: 10385				
		Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Radium 228 (Dissolved)	34	1	40.3		83.6	61.7 - 97.1	

LCS-10457 (07/12/15 20:09)	Analyte	RunNo: 123711	PrepDate: 06/23/15 9:00	BatchID: 10457				
		Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Radium 228 (Dissolved)	33	1	39.2		84.9	60 - 120	

Radium 228 by Ga/Tech		Sample Type	MS		Units: pCi/L			
MS-10385 (07/01/15 18:03)	Analyte	RunNo: 123083	PrepDate: 06/22/15 0:00	BatchID: 10385				
		Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Radium 228 (Dissolved)	33	1	40.3	ND	80.5	52.4 - 114	

MS-10457 (07/13/15 00:11)	Analyte	RunNo: 123711	PrepDate: 06/23/15 9:00	BatchID: 10457				
		Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Radium 228 (Dissolved)	39	1	39.2	ND	98.7	66.7 - 120	

Radium 228 by Ga/Tech		Sample Type	MSD		Units: pCi/L			
MSD-10385 (07/01/15 20:04)	Analyte	RunNo: 123083	PrepDate: 06/22/15 0:00	BatchID: 10385				
		Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
	Radium 228 (Dissolved)	44	1	33	29.6	108	30	

MSD-10457 (07/13/15 02:12)	Analyte	RunNo: 123711	PrepDate: 06/23/15 9:00	BatchID: 10457				
		Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
	Radium 228 (Dissolved)	32	1	39	18.9	81.7	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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Radium 226 in Water - DissolvedSample Type **MBLK**

Units: pCi/L

MB-1474 (07/08/15 08:17)	RunNo: 123416	PrepDate: 06/24/15 0:00	BatchID: 10432	
Analyte	Result	RL	Spike	Ref Samp

Radium 226 (Dissolved)	ND	0.2	%REC	% Rec Limits	Qual
------------------------	----	-----	------	--------------	------

MB-1476 (07/13/15 14:22)	RunNo: 123714	PrepDate: 07/01/15 0:00	BatchID: 10458	
Analyte	Result	RL	Spike	Ref Samp

Radium 226 (Dissolved)	ND	0.2	%REC	% Rec Limits	Qual
------------------------	----	-----	------	--------------	------

Radium 226 in Water - DissolvedSample Type **LCS**

Units: pCi/L

LCS-1474 (07/08/15 08:17)	RunNo: 123416	PrepDate: 06/24/15 0:00	BatchID: 10432	
Analyte	Result	RL	Spike	Ref Samp

Radium 226 (Dissolved)	4.3	0.2	5	85.7	76.4 - 122
------------------------	-----	-----	---	------	------------

LCS-1476 (07/13/15 14:22)	RunNo: 123714	PrepDate: 07/01/15 0:00	BatchID: 10458	
Analyte	Result	RL	Spike	Ref Samp

Radium 226 (Dissolved)	4.9	0.2	5	97.5	76.4 - 122
------------------------	-----	-----	---	------	------------

Radium 226 in Water - DissolvedSample Type **MS**

Units: pCi/L

MS-1474 (07/08/15 08:17)	RunNo: 123416	PrepDate: 06/24/15 0:00	BatchID: 10432	
Analyte	Result	RL	Spike	Ref Samp

Radium 226 (Dissolved)	4.4	0.2	5	ND	86.9	74.5 - 133
------------------------	-----	-----	---	----	------	------------

MS-1476 (07/13/15 14:22)	RunNo: 123714	PrepDate: 07/01/15 0:00	BatchID: 10458	
Analyte	Result	RL	Spike	Ref Samp

Radium 226 (Dissolved)	4.3	0.2	5.03	0.3	79.2	69.4 - 120
------------------------	-----	-----	------	-----	------	------------

Radium 226 in Water - DissolvedSample Type **MSD**

Units: pCi/L

MSD-1474 (07/08/15 08:17)	RunNo: 123416	PrepDate: 06/24/15 0:00	BatchID: 10432	
Analyte	Result	RL	Conc	%RPD

Radium 226 (Dissolved)	4.6	0.2	4.4	4.77	91.2	20
------------------------	-----	-----	-----	------	------	----

MSD-1476 (07/13/15 14:22)	RunNo: 123714	PrepDate: 07/01/15 0:00	BatchID: 10458	
Analyte	Result	RL	Conc	%RPD

Radium 226 (Dissolved)	4.2	0.2	4.3	1.31	78.1	20
------------------------	-----	-----	-----	------	------	----

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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Silica as SiO2		Sample Type	MBLK		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
MBLK DISS/CAT (06/17/15 11:41)	122350								
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 (06/17/15 11:44)	122350								
Silica as SiO2		2.1	0.1	2.14		98.2	85 - 115		

Silica as SiO2		Sample Type	DUP		Units: mg/L				
Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
S1506333-006DD (06/17/15 12:42)	122350								
Silica as SiO2		13	1	13	0.701		20		

S1506333-013DD (06/17/15 13:17)		RunNo:	122350		Units: mg/L				
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual		
Silica as SiO2	11	1	11	0.229		20			

Solids By SM 2540		Sample Type	MBLK		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
DI (06/16/15 13:47)	122460								
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 (06/16/15 13:48)	122460								
Total Dissolved Solids (180)		230	10	226		101	90 - 110		

Solids By SM 2540		Sample Type	DUP		Units: mg/L				
Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
S1506333-002A (06/16/15 13:59)	122460								
Total Dissolved Solids (180)		390	10	390	0.517		20		

S1506333-012A (06/16/15 14:10)		RunNo:	122460		Units: mg/L				
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual		
Total Dissolved Solids (180)	740	10	740	0.271		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: S1506333
Project: MU1 Stability Monitoring

Date: 7/17/2015
Report ID: S1506333001

Total (200.2) Metals by EPA 200.7 ICP - Water

Sample Type **MBLK**

Units: mg/L

MB-10279 (06/17/15 16:43)	RunNo: 122353	PrepDate: 06/17/15 12:48	BatchID: 10279				
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-10279 (06/17/15 18:11)	RunNo: 122353	PrepDate: 06/17/15 12:48	BatchID: 10279				
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Iron	0.49	0.05	0.5		98.9	85 - 115	
Manganese	0.20	0.02	0.2		99.3	85 - 115	

Total (200.2) Metals by EPA 200.7 ICP - Water

Sample Type **MS**

Units: mg/L

S1506333-006ES (06/17/15 17:42)	RunNo: 122353	PrepDate: 06/17/15 7:00	BatchID: 10279				
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Iron	8.35	0.05	0.5	7.85	99.7	70 - 130	
Manganese	0.30	0.01	0.2	0.10	98.1	70 - 130	

S1506333-018ES (06/17/15 18:36)	RunNo: 122353	PrepDate: 06/17/15 7:00	BatchID: 10279				
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Iron	1.16	0.05	0.5	0.66	98.6	70 - 130	
Manganese	0.26	0.01	0.2	0.06	99.1	70 - 130	

Total (200.2) Metals by EPA 200.7 ICP - Water

Sample Type **MSD**

Units: mg/L

S1506333-006EMSD (06/17/15 17:44)	RunNo: 122353	PrepDate: 06/17/15 7:00	BatchID: 10279				
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Iron	8.26	0.05	8.35	1.04	82.4	20	
Manganese	0.30	0.01	0.30	0.0916	98.2	20	

S1506333-018EMSD (06/17/15 18:39)	RunNo: 122353	PrepDate: 06/17/15 7:00	BatchID: 10279				
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Iron	1.16	0.05	1.16	0.0554	98.7	20	
Manganese	0.26	0.01	0.26	1.40	97.3	20	

pH Water

Sample Type **LCS**

Units: s.u.

ATQC (06/16/15 17:21)	RunNo: 122277						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
pH	8.8	0.1	8.6		103	90 - 110	

pH Water

Sample Type **DUP**

Units: s.u.

S1506333-010A (06/16/15 22:32)	RunNo: 122277						
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
pH	7.9	0.1	7.9	0.775		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