



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

Client Name Cameco Resources		Project Identification MU2 Qrthly Stability Monitoring		Sampler (Signature/Attestation of Authenticity) <i>Kathy Amos</i>		Telephone # 307 358 6541 x465	
Report Address PO Box 1210 Glenrock WY 82637		Contact Name Larry Wilbanks		ANALYSES / PARAMETERS			
Invoice Address		Email Larry.Wilbanks@Cameco.com					
		Phone 307 358 6541 x427		Filtered & Preserved in Field			
		Purchase Order # 4560 458 888					
		Quote #		REMARKS			

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS						REMARKS		
							Temp								
1	S1512188-001	12/10/15	959	B-001	WT	7	X								
2	002	12/9/15	818	B-002											
3	003	12/10/15	820	B-003											
4	004	12/9/15	937	B-004											
5	005	12/9/15	911	B-005											
6	006	↓	1009	B-006											
7	007	↓	1025	B-007											
8	008	↓	1113	B-008											
9	009	↓	313	B-009											
10	010	↓	545	B-010											
11	011	↓	505	B-011											
12	012	↓	604	B-012											
13	013	12/10/15	930	B-013											
14	014	↓	1004	B-014											

LAB COMMENTS	Relinquished By (Signature/Printed)		DATE	TIME	Received By (Signature/Printed)		DATE	TIME
	7 Coolers	<i>Kathy Amos</i>	<i>Kathy Amos</i>	12/10/15	1130	<i>Ken Gardutte</i>	<i>Ken Gardutte</i>	12/10/15
<i>Ken Gardutte</i>		<i>Ken Gardutte</i>	12/10/15	1645	<i>Quire Gonzalez</i>	<i>Quire Gonzalez</i>	12-11-15	11:26

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 <u>WT</u> Soil SL Solid SD Filter FT Other OT	Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>	Compliance Monitoring? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Program (SDWA, NPDES,...) PWSID / Permit # _____ Chlorinated? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Sample Disposal: Lab _____ Client _____	



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

Page 2 of 2

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

162621

Client Name Camoco Resources		Project Identification MU 1 Grty Stability Monitoring		Sampler (Signature/Attestation of Authenticity) <i>Kathy Amos</i>		Telephone # 307358 6541 x 465	
Report Address PO Box 1210 Glanrock WY 82637		Contact Name Larry Wilbanks		ANALYSES / PARAMETERS Filtered & Preserved in field			
Invoice Address		Email Larry.Wilbanks@camoco.com					
		Phone 307 358 6541 x 427		Purchase Order # 4560 458 888		Quote #	

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS							REMARKS			
							Temp										
1	31512188-017	12/10/15	836	B-015	WT	7	X										
2	016	↓	469	B-016	↓	↓	↓										
3	017	↓	426	B-017	↓	↓	↓										
4	018	12/10/15	821	B-018	↓	↓	↓										
5	019	↓	1052	B-019	↓	↓	↓										
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	<i>Kathy Amos</i>	12/10/15	1130	<i>Ken Garouite</i>	12/10/15	1215
	<i>Ken Garouite</i>	12/10/15	1640	<i>Jude Goralka</i>	12-11-15	11:26

<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 <u>WT</u> Soil SL Solid SD Filter FT Other OT		Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied.</i>		Compliance Monitoring? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N Disposal: Lab _____ Client _____		ADDITIONAL REMARKS	
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Date: 1/13/2016

CLIENT: Power Resources (Cameco)
Project: MU1 Qrtly Stability Monitoring
Lab Order: S1512188

CASE NARRATIVE
Report ID: S1512188001

Samples B-001, B-002, B-003, B-004, B-005, B-006, B-007, B-008, B-009, B-010, B-011, B-012, B-013, B-014, B-015, B-016, B-017, B-018, and B-019 were received on December 11, 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

S1512188-004 - Dissolved Metals by ICP - EPA 200.7 - Water/Iron - 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-001
ClientSample ID: B-001
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/10/2015 9:59:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	114	mg/L		5	SM 2320B	12/11/2015 2324	SFF
Alkalinity, Bicarbonate as HCO3	140	mg/L		5	SM 2320B	12/11/2015 2324	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/11/2015 2324	SFF
Chloride	10	mg/L		1	EPA 300.0	12/15/2015 1109	AB
Fluoride	0.1	mg/L		0.1	SM 4500FC	12/11/2015 2324	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1333	AMB
Sulfate	91	mg/L		1	EPA 300.0	12/15/2015 1109	AB
Calcium	47	mg/L		1	EPA 200.7	12/14/2015 1431	DG
Magnesium	13	mg/L		1	EPA 200.7	12/14/2015 1431	DG
Potassium	7	mg/L		1	EPA 200.7	12/14/2015 1431	DG
Sodium	15	mg/L		1	EPA 200.7	12/14/2015 1431	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	12/11/2015 1717	AMB
Silica as SiO2	13	mg/L		1	EPA 200.7	12/14/2015 1431	DG
General Parameters							
pH	7.5	s.u.		0.1	SM 4500 H B	12/11/2015 2324	SFF
Electrical Conductivity	481	µmhos/cm		5	SM 2510B	12/11/2015 2324	SFF
Total Dissolved Solids (180)	270	mg/L		10	SM 2540	12/11/2015 1402	IR
Data Quality							
Cation Sum	4.18	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	4.48	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	3.41	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	260	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-001
ClientSample ID: B-001
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/10/2015 9:59:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Metals - Dissolved

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

Metals - Total

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

Radionuclides - Dissolved

Table listing radionuclides (Gross Alpha, Gross 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

- Qualifiers: A Check MSA specifications, 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 another 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: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-002
ClientSample ID: B-002
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 8:18:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	174	mg/L		5	SM 2320B	12/11/2015 2342	SFF
Alkalinity, Bicarbonate as HCO3	212	mg/L		5	SM 2320B	12/11/2015 2342	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/11/2015 2342	SFF
Chloride	11	mg/L		1	EPA 300.0	12/15/2015 1122	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	12/11/2015 2342	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1334	AMB
Sulfate	84	mg/L		1	EPA 300.0	12/15/2015 1122	AB
Calcium	64	mg/L		1	EPA 200.7	12/14/2015 1434	DG
Magnesium	16	mg/L		1	EPA 200.7	12/14/2015 1434	DG
Potassium	8	mg/L		1	EPA 200.7	12/14/2015 1434	DG
Sodium	16	mg/L		1	EPA 200.7	12/14/2015 1434	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	12/11/2015 1718	AMB
Silica as SiO2	12	mg/L		1	EPA 200.7	12/14/2015 1434	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	12/11/2015 2342	SFF
Electrical Conductivity	543	µmhos/cm		5	SM 2510B	12/11/2015 2342	SFF
Total Dissolved Solids (180)	330	mg/L		10	SM 2540	12/11/2015 1403	IR
Data Quality							
Cation Sum	5.45	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	5.56	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	0.95	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	320	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.03	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

- | | | |
|--------------------|--|--|
| Qualifiers: | A Check MSA specifications | 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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-002
ClientSample ID: B-002
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 8:18:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Metals - Dissolved

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

Metals - Total

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

Radionuclides - Dissolved

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-003
ClientSample ID: B-003
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/10/2015 8:20:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	136	mg/L		5	SM 2320B	12/11/2015 2351	SFF
Alkalinity, Bicarbonate as HCO3	166	mg/L		5	SM 2320B	12/11/2015 2351	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/11/2015 2351	SFF
Chloride	5	mg/L		1	EPA 300.0	12/15/2015 1135	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	12/11/2015 2351	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1336	AMB
Sulfate	113	mg/L		1	EPA 300.0	12/15/2015 1135	AB
Calcium	58	mg/L		1	EPA 200.7	12/14/2015 1443	DG
Magnesium	14	mg/L		1	EPA 200.7	12/14/2015 1443	DG
Potassium	7	mg/L		1	EPA 200.7	12/14/2015 1443	DG
Sodium	17	mg/L		1	EPA 200.7	12/14/2015 1443	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	12/11/2015 1719	AMB
Silica as SiO2	13	mg/L		1	EPA 200.7	12/14/2015 1443	DG
General Parameters							
pH	7.5	s.u.		0.1	SM 4500 H B	12/11/2015 2351	SFF
Electrical Conductivity	525	µmhos/cm		5	SM 2510B	12/11/2015 2351	SFF
Total Dissolved Solids (180)	320	mg/L		10	SM 2540	12/11/2015 1404	IR
Data Quality							
Cation Sum	5.01	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	5.23	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	2.15	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	310	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.03	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-003
ClientSample ID: B-003
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/10/2015 8:20:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Metals - Dissolved

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

Metals - Total

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

Radionuclides - Dissolved

Table listing radionuclides (Gross Alpha, Gross 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 (A, C, H, L, ND, S) and reporting limit codes (B, E, J, M, O, X) 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-004
ClientSample ID: B-004
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 9:37:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-004
ClientSample ID: B-004
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 9:37:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Metals - Dissolved

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

Metals - Total

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

Radionuclides - Dissolved

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

These results apply only to the samples tested.

RL - Reporting Limit

Table defining qualifiers (A, C, H, L, ND, S) and reporting limit codes (B, E, J, M, O, X) 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-005
ClientSample ID: B-005
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 9:11:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

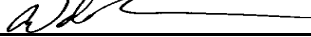
Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	129	mg/L		5	SM 2320B	12/12/2015 010	SFF
Alkalinity, Bicarbonate as HCO3	158	mg/L		5	SM 2320B	12/12/2015 010	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/12/2015 010	SFF
Chloride	7	mg/L		1	EPA 300.0	12/15/2015 1201	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	12/12/2015 010	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1348	AMB
Sulfate	50	mg/L		1	EPA 300.0	12/15/2015 1201	AB
Calcium	44	mg/L		1	EPA 200.7	12/14/2015 1455	DG
Magnesium	11	mg/L		1	EPA 200.7	12/14/2015 1455	DG
Potassium	7	mg/L		1	EPA 200.7	12/14/2015 1455	DG
Sodium	10	mg/L		1	EPA 200.7	12/14/2015 1455	DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	12/11/2015 1722	AMB
Silica as SiO2	12	mg/L		1	EPA 200.7	12/14/2015 1455	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	12/12/2015 010	SFF
Electrical Conductivity	399	µmhos/cm		5	SM 2510B	12/12/2015 010	SFF
Total Dissolved Solids (180)	220	mg/L		10	SM 2540	12/11/2015 1406	IR
Data Quality							
Cation Sum	3.69	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	3.83	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	1.85	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	220	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-005
ClientSample ID: B-005
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 9:11:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Aluminum	ND	mg/L		0.1	EPA 200.7	12/14/2015 1455	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	12/11/2015 2148	MS
Barium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2148	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	12/14/2015 1455	DG
Boron	ND	mg/L		0.1	EPA 200.7	12/14/2015 1455	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2148	MS
Chromium	ND	mg/L		0.01	EPA 200.7	12/14/2015 1455	DG
Copper	ND	mg/L		0.01	EPA 200.8	12/11/2015 2148	MS
Iron	0.52	mg/L		0.05	EPA 200.7	12/14/2015 1455	DG
Lead	ND	mg/L		0.01	EPA 200.8	12/11/2015 2148	MS
Manganese	0.06	mg/L		0.01	EPA 200.7	12/14/2015 1455	DG
Mercury	ND	mg/L		0.001	EPA 245.1	12/15/2015 1044	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	12/11/2015 2148	MS
Nickel	ND	mg/L		0.05	EPA 200.7	12/14/2015 1455	DG
Selenium	0.014	mg/L		0.001	EPA 200.8	12/11/2015 2148	MS
Uranium	0.346	mg/L		0.0003	EPA 200.8	12/11/2015 2148	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2148	MS
Zinc	ND	mg/L		0.01	EPA 200.7	12/14/2015 1455	DG

Metals - Total

Iron	0.56	mg/L		0.05	EPA 200.7	12/14/2015 1854	DG
Manganese	0.06	mg/L		0.01	EPA 200.7	12/14/2015 1854	DG

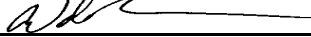
Radionuclides - Dissolved

Gross Alpha	526	pCi/L		2	SM 7110B	01/12/2016 1104	MB
Gross Alpha Precision (±)	9.9	pCi/L			SM 7110B	01/12/2016 1104	MB
Gross Beta	184	pCi/L		3	SM 7110B	01/12/2016 1104	MB
Gross Beta Precision (±)	4.5	pCi/L			SM 7110B	01/12/2016 1104	MB
Radium 226	224	pCi/L		0.2	SM 7500 Ra-B	12/28/2015 1501	MB
Radium 226 Precision (±)	1.5	pCi/L			SM 7500 Ra-B	12/28/2015 1501	MB
Radium 228	2.7	pCi/L		1	Ga-Tech	12/30/2015 1346	MB
Radium 228 Precision (±)	1.7	pCi/L			Ga-Tech	12/30/2015 1346	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A	Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-006
ClientSample ID: B-006
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 10:09:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: A Check MSA specifications, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by another laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect

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



Sample Analysis Report

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

Date Reported 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-006
ClientSample ID: B-006
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 10:09:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Aluminum	ND	mg/L		0.1	EPA 200.7	12/14/2015 1457	DG
Arsenic	0.011	mg/L		0.001	EPA 200.8	12/11/2015 2153	MS
Barium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2153	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	12/14/2015 1457	DG
Boron	ND	mg/L		0.1	EPA 200.7	12/14/2015 1457	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2153	MS
Chromium	ND	mg/L		0.01	EPA 200.7	12/14/2015 1457	DG
Copper	ND	mg/L		0.01	EPA 200.8	12/11/2015 2153	MS
Iron	3.39	mg/L		0.05	EPA 200.7	12/14/2015 1457	DG
Lead	ND	mg/L		0.01	EPA 200.8	12/11/2015 2153	MS
Manganese	0.08	mg/L		0.01	EPA 200.7	12/14/2015 1457	DG
Mercury	ND	mg/L		0.001	EPA 245.1	12/15/2015 1046	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	12/11/2015 2153	MS
Nickel	ND	mg/L		0.05	EPA 200.7	12/14/2015 1457	DG
Selenium	0.008	mg/L		0.001	EPA 200.8	12/11/2015 2153	MS
Uranium	0.560	mg/L		0.0003	EPA 200.8	12/11/2015 2153	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2153	MS
Zinc	ND	mg/L		0.01	EPA 200.7	12/14/2015 1457	DG

Metals - Total

Iron	3.58	mg/L		0.05	EPA 200.7	12/14/2015 1857	DG
Manganese	0.07	mg/L		0.01	EPA 200.7	12/14/2015 1857	DG

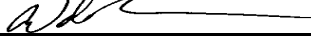
Radionuclides - Dissolved

Gross Alpha	1150	pCi/L		2	SM 7110B	12/22/2015 809	MB
Gross Alpha Precision (±)	15.0	pCi/L			SM 7110B	12/22/2015 809	MB
Gross Beta	458	pCi/L		3	SM 7110B	12/22/2015 809	MB
Gross Beta Precision (±)	6.9	pCi/L			SM 7110B	12/22/2015 809	MB
Radium 226	462	pCi/L		0.2	SM 7500 Ra-B	12/29/2015 901	MB
Radium 226 Precision (±)	2.2	pCi/L			SM 7500 Ra-B	12/29/2015 901	MB
Radium 228	4.4	pCi/L		1	Ga-Tech	12/30/2015 1646	MB
Radium 228 Precision (±)	2.0	pCi/L			Ga-Tech	12/30/2015 1646	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A	Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-007
ClientSample ID: B-007
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 10:25:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-007
ClientSample ID: B-007
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 10:25:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Aluminum	ND	mg/L		0.1	EPA 200.7	12/14/2015 1459	DG
Arsenic	0.007	mg/L		0.001	EPA 200.8	12/11/2015 2158	MS
Barium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2158	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	12/14/2015 1459	DG
Boron	ND	mg/L		0.1	EPA 200.7	12/14/2015 1459	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2158	MS
Chromium	ND	mg/L		0.01	EPA 200.7	12/14/2015 1459	DG
Copper	ND	mg/L		0.01	EPA 200.8	12/11/2015 2158	MS
Iron	1.06	mg/L		0.05	EPA 200.7	12/14/2015 1459	DG
Lead	ND	mg/L		0.01	EPA 200.8	12/11/2015 2158	MS
Manganese	0.13	mg/L		0.01	EPA 200.7	12/14/2015 1459	DG
Mercury	ND	mg/L		0.001	EPA 245.1	12/15/2015 1048	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	12/11/2015 2158	MS
Nickel	ND	mg/L		0.05	EPA 200.7	12/14/2015 1459	DG
Selenium	0.004	mg/L		0.001	EPA 200.8	12/11/2015 2158	MS
Uranium	0.411	mg/L		0.0003	EPA 200.8	12/11/2015 2158	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2158	MS
Zinc	ND	mg/L		0.01	EPA 200.7	12/14/2015 1459	DG

Metals - Total

Iron	1.16	mg/L		0.05	EPA 200.7	12/14/2015 1859	DG
Manganese	0.12	mg/L		0.01	EPA 200.7	12/14/2015 1859	DG

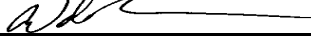
Radionuclides - Dissolved

Gross Alpha	786	pCi/L		2	SM 7110B	12/22/2015 809	MB
Gross Alpha Precision (±)	12.9	pCi/L			SM 7110B	12/22/2015 809	MB
Gross Beta	254	pCi/L		3	SM 7110B	12/22/2015 809	MB
Gross Beta Precision (±)	5.3	pCi/L			SM 7110B	12/22/2015 809	MB
Radium 226	336	pCi/L		0.2	SM 7500 Ra-B	12/28/2015 1501	MB
Radium 226 Precision (±)	2.0	pCi/L			SM 7500 Ra-B	12/28/2015 1501	MB
Radium 228	ND	pCi/L		1	Ga-Tech	12/30/2015 1947	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	12/30/2015 1947	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A	Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-008
ClientSample ID: B-008
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 11:13:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	163	mg/L		5	SM 2320B	12/12/2015 038	SFF
Alkalinity, Bicarbonate as HCO3	199	mg/L		5	SM 2320B	12/12/2015 038	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/12/2015 038	SFF
Chloride	11	mg/L		1	EPA 300.0	12/15/2015 1240	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	12/12/2015 038	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1352	AMB
Sulfate	70	mg/L		1	EPA 300.0	12/15/2015 1240	AB
Calcium	58	mg/L		1	EPA 200.7	12/14/2015 1501	DG
Magnesium	14	mg/L		1	EPA 200.7	12/14/2015 1501	DG
Potassium	8	mg/L		1	EPA 200.7	12/14/2015 1501	DG
Sodium	13	mg/L		1	EPA 200.7	12/14/2015 1501	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	12/11/2015 1726	AMB
Silica as SiO2	11	mg/L		1	EPA 200.7	12/14/2015 1501	DG
General Parameters							
pH	7.8	s.u.		0.1	SM 4500 H B	12/12/2015 038	SFF
Electrical Conductivity	498	µmhos/cm		5	SM 2510B	12/12/2015 038	SFF
Total Dissolved Solids (180)	290	mg/L		10	SM 2540	12/11/2015 1409	IR
Data Quality							
Cation Sum	4.81	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	5.01	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	2.11	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	280	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

- | | | |
|--------------------|--|--|
| Qualifiers: | A Check MSA specifications | 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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-008
ClientSample ID: B-008
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 11:13:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Aluminum	ND	mg/L		0.1	EPA 200.7	12/14/2015 1501	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	12/11/2015 2204	MS
Barium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2204	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	12/14/2015 1501	DG
Boron	ND	mg/L		0.1	EPA 200.7	12/14/2015 1501	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2204	MS
Chromium	ND	mg/L		0.01	EPA 200.7	12/14/2015 1501	DG
Copper	ND	mg/L		0.01	EPA 200.8	12/11/2015 2204	MS
Iron	0.64	mg/L		0.05	EPA 200.7	12/14/2015 1501	DG
Lead	ND	mg/L		0.01	EPA 200.8	12/11/2015 2204	MS
Manganese	0.07	mg/L		0.01	EPA 200.7	12/14/2015 1501	DG
Mercury	ND	mg/L		0.001	EPA 245.1	12/15/2015 1054	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	12/11/2015 2204	MS
Nickel	ND	mg/L		0.05	EPA 200.7	12/14/2015 1501	DG
Selenium	0.013	mg/L		0.001	EPA 200.8	12/11/2015 2204	MS
Uranium	1.30	mg/L		0.0003	EPA 200.8	12/11/2015 2204	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2204	MS
Zinc	ND	mg/L		0.01	EPA 200.7	12/14/2015 1501	DG

Metals - Total

Iron	0.80	mg/L		0.05	EPA 200.7	12/14/2015 1901	DG
Manganese	0.07	mg/L		0.01	EPA 200.7	12/14/2015 1901	DG

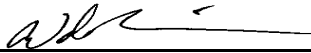
Radionuclides - Dissolved

Gross Alpha	1480	pCi/L		2	SM 7110B	12/22/2015 809	MB
Gross Alpha Precision (±)	17.2	pCi/L			SM 7110B	12/22/2015 809	MB
Gross Beta	438	pCi/L		3	SM 7110B	12/22/2015 809	MB
Gross Beta Precision (±)	6.8	pCi/L			SM 7110B	12/22/2015 809	MB
Radium 226	460	pCi/L		0.2	SM 7500 Ra-B	12/28/2015 1501	MB
Radium 226 Precision (±)	2.4	pCi/L			SM 7500 Ra-B	12/28/2015 1501	MB
Radium 228	6.1	pCi/L		1	Ga-Tech	12/30/2015 2248	MB
Radium 228 Precision (±)	2.1	pCi/L			Ga-Tech	12/30/2015 2248	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A	Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-009
ClientSample ID: B-009
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 3:13:00 PM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	195	mg/L		5	SM 2320B	12/12/2015 103	SFF
Alkalinity, Bicarbonate as HCO3	238	mg/L		5	SM 2320B	12/12/2015 103	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/12/2015 103	SFF
Chloride	16	mg/L		1	EPA 300.0	12/15/2015 1253	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	12/12/2015 103	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1354	AMB
Sulfate	100	mg/L		1	EPA 300.0	12/15/2015 1253	AB
Calcium	77	mg/L		1	EPA 200.7	12/14/2015 1504	DG
Magnesium	18	mg/L		1	EPA 200.7	12/14/2015 1504	DG
Potassium	8	mg/L		1	EPA 200.7	12/14/2015 1504	DG
Sodium	15	mg/L		1	EPA 200.7	12/14/2015 1504	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	12/11/2015 1727	AMB
Silica as SiO2	14	mg/L		1	EPA 200.7	12/14/2015 1504	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	12/12/2015 103	SFF
Electrical Conductivity	637	µmhos/cm		5	SM 2510B	12/12/2015 103	SFF
Total Dissolved Solids (180)	390	mg/L		10	SM 2540	12/11/2015 1410	IR
Data Quality							
Cation Sum	6.25	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	6.44	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	1.49	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	370	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.05	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

- | | | |
|--------------------|--|--|
| Qualifiers: | A Check MSA specifications | 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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-009
ClientSample ID: B-009
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 3:13:00 PM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Aluminum	ND	mg/L		0.1	EPA 200.7	12/14/2015 1504	DG
Arsenic	0.015	mg/L		0.001	EPA 200.8	12/11/2015 2209	MS
Barium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2209	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	12/14/2015 1504	DG
Boron	ND	mg/L		0.1	EPA 200.7	12/14/2015 1504	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2209	MS
Chromium	ND	mg/L		0.01	EPA 200.7	12/14/2015 1504	DG
Copper	ND	mg/L		0.01	EPA 200.8	12/11/2015 2209	MS
Iron	2.26	mg/L		0.05	EPA 200.7	12/14/2015 1504	DG
Lead	ND	mg/L		0.01	EPA 200.8	12/11/2015 2209	MS
Manganese	0.17	mg/L		0.01	EPA 200.7	12/14/2015 1504	DG
Mercury	ND	mg/L		0.001	EPA 245.1	12/15/2015 1102	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	12/11/2015 2209	MS
Nickel	ND	mg/L		0.05	EPA 200.7	12/14/2015 1504	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	12/11/2015 2209	MS
Uranium	1.06	mg/L		0.0003	EPA 200.8	12/11/2015 2209	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2209	MS
Zinc	ND	mg/L		0.01	EPA 200.7	12/14/2015 1504	DG

Metals - Total

Iron	2.43	mg/L		0.05	EPA 200.7	12/14/2015 1911	DG
Manganese	0.17	mg/L		0.01	EPA 200.7	12/14/2015 1911	DG

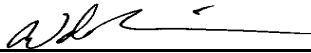
Radionuclides - Dissolved

Gross Alpha	1160	pCi/L		2	SM 7110B	12/22/2015 809	MB
Gross Alpha Precision (±)	16.1	pCi/L			SM 7110B	12/22/2015 809	MB
Gross Beta	413	pCi/L		3	SM 7110B	12/22/2015 809	MB
Gross Beta Precision (±)	6.8	pCi/L			SM 7110B	12/22/2015 809	MB
Radium 226	213	pCi/L		0.2	SM 7500 Ra-B	12/28/2015 1501	MB
Radium 226 Precision (±)	1.5	pCi/L			SM 7500 Ra-B	12/28/2015 1501	MB
Radium 228	1.7	pCi/L		1	Ga-Tech	12/31/2015 149	MB
Radium 228 Precision (±)	1.6	pCi/L			Ga-Tech	12/31/2015 149	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A	Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-010
ClientSample ID: B-010
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 5:45:00 PM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	253	mg/L		5	SM 2320B	12/12/2015 112	SFF
Alkalinity, Bicarbonate as HCO3	309	mg/L		5	SM 2320B	12/12/2015 112	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/12/2015 112	SFF
Chloride	26	mg/L		1	EPA 300.0	12/15/2015 1306	AB
Fluoride	0.1	mg/L		0.1	SM 4500FC	12/12/2015 112	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1355	AMB
Sulfate	148	mg/L		1	EPA 300.0	12/15/2015 1306	AB
Calcium	107	mg/L		1	EPA 200.7	12/14/2015 1513	DG
Magnesium	26	mg/L		1	EPA 200.7	12/14/2015 1513	DG
Potassium	11	mg/L		1	EPA 200.7	12/14/2015 1513	DG
Sodium	19	mg/L		1	EPA 200.7	12/14/2015 1513	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	12/11/2015 1737	AMB
Silica as SiO2	14	mg/L		1	EPA 200.7	12/14/2015 1513	DG
General Parameters							
pH	7.8	s.u.		0.1	SM 4500 H B	12/12/2015 112	SFF
Electrical Conductivity	849	µmhos/cm		5	SM 2510B	12/12/2015 112	SFF
Total Dissolved Solids (180)	550	mg/L		10	SM 2540	12/11/2015 1411	IR
Data Quality							
Cation Sum	8.54	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	8.89	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	2.00	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	500	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.10	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

- | | | |
|--------------------|--|--|
| Qualifiers: | A Check MSA specifications | 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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-010
ClientSample ID: B-010
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 5:45:00 PM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Metals - Dissolved

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

Metals - Total

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

Radionuclides - Dissolved

Table listing radionuclides (Gross Alpha, Gross 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

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

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



Sample Analysis Report

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

Date Reported 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-011
ClientSample ID: B-011
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 5:05:00 PM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	222	mg/L		5	SM 2320B	12/12/2015 121	SFF
Alkalinity, Bicarbonate as HCO3	270	mg/L		5	SM 2320B	12/12/2015 121	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/12/2015 121	SFF
Chloride	15	mg/L		1	EPA 300.0	12/15/2015 1425	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	12/12/2015 121	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1357	AMB
Sulfate	86	mg/L		1	EPA 300.0	12/15/2015 1425	AB
Calcium	82	mg/L		1	EPA 200.7	12/14/2015 1515	DG
Magnesium	19	mg/L		1	EPA 200.7	12/14/2015 1515	DG
Potassium	8	mg/L		1	EPA 200.7	12/14/2015 1515	DG
Sodium	16	mg/L		1	EPA 200.7	12/14/2015 1515	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	12/11/2015 1738	AMB
Silica as SiO2	13	mg/L		1	EPA 200.7	12/14/2015 1515	DG
General Parameters							
pH	7.8	s.u.		0.1	SM 4500 H B	12/12/2015 121	SFF
Electrical Conductivity	652	µmhos/cm		5	SM 2510B	12/12/2015 121	SFF
Total Dissolved Solids (180)	400	mg/L		10	SM 2540	12/11/2015 1413	IR
Data Quality							
Cation Sum	6.54	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	6.64	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	0.81	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	370	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-011
ClientSample ID: B-011
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 5:05:00 PM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Aluminum	ND	mg/L		0.1	EPA 200.7	12/14/2015 1515	DG
Arsenic	0.002	mg/L		0.001	EPA 200.8	12/11/2015 2247	MS
Barium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2247	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	12/14/2015 1515	DG
Boron	ND	mg/L		0.1	EPA 200.7	12/14/2015 1515	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2247	MS
Chromium	ND	mg/L		0.01	EPA 200.7	12/14/2015 1515	DG
Copper	ND	mg/L		0.01	EPA 200.8	12/11/2015 2247	MS
Iron	0.21	mg/L		0.05	EPA 200.7	12/14/2015 1515	DG
Lead	ND	mg/L		0.01	EPA 200.8	12/11/2015 2247	MS
Manganese	0.07	mg/L		0.01	EPA 200.7	12/14/2015 1515	DG
Mercury	ND	mg/L		0.001	EPA 245.1	12/15/2015 1106	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	12/11/2015 2247	MS
Nickel	ND	mg/L		0.05	EPA 200.7	12/14/2015 1515	DG
Selenium	0.009	mg/L		0.001	EPA 200.8	12/11/2015 2247	MS
Uranium	1.62	mg/L		0.0003	EPA 200.8	12/11/2015 2247	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2247	MS
Zinc	ND	mg/L		0.01	EPA 200.7	12/14/2015 1515	DG

Metals - Total

Iron	0.27	mg/L		0.05	EPA 200.7	12/14/2015 1915	DG
Manganese	0.07	mg/L		0.01	EPA 200.7	12/14/2015 1915	DG

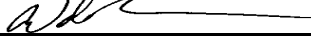
Radionuclides - Dissolved

Gross Alpha	1220	pCi/L		2	SM 7110B	12/22/2015 809	MB
Gross Alpha Precision (±)	17.1	pCi/L			SM 7110B	12/22/2015 809	MB
Gross Beta	347	pCi/L		3	SM 7110B	12/22/2015 809	MB
Gross Beta Precision (±)	6.2	pCi/L			SM 7110B	12/22/2015 809	MB
Radium 226	269	pCi/L		0.2	SM 7500 Ra-B	12/28/2015 1501	MB
Radium 226 Precision (±)	1.8	pCi/L			SM 7500 Ra-B	12/28/2015 1501	MB
Radium 228	1.8	pCi/L		1	Ga-Tech	12/31/2015 751	MB
Radium 228 Precision (±)	1.6	pCi/L			Ga-Tech	12/31/2015 751	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A	Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-012
ClientSample ID: B-012
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 6:04:00 PM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	150	mg/L		5	SM 2320B	12/12/2015 140	SFF
Alkalinity, Bicarbonate as HCO3	183	mg/L		5	SM 2320B	12/12/2015 140	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/12/2015 140	SFF
Chloride	12	mg/L		1	EPA 300.0	12/15/2015 1438	AB
Fluoride	0.1	mg/L		0.1	SM 4500FC	12/12/2015 140	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1358	AMB
Sulfate	88	mg/L		1	EPA 300.0	12/15/2015 1438	AB
Calcium	58	mg/L		1	EPA 200.7	12/14/2015 1517	DG
Magnesium	15	mg/L		1	EPA 200.7	12/14/2015 1517	DG
Potassium	8	mg/L		1	EPA 200.7	12/14/2015 1517	DG
Sodium	14	mg/L		1	EPA 200.7	12/14/2015 1517	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	12/11/2015 1739	AMB
Silica as SiO2	12	mg/L		1	EPA 200.7	12/14/2015 1517	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	12/12/2015 140	SFF
Electrical Conductivity	525	µmhos/cm		5	SM 2510B	12/12/2015 140	SFF
Total Dissolved Solids (180)	310	mg/L		10	SM 2540	12/11/2015 1414	IR
Data Quality							
Cation Sum	5.00	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	5.17	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	1.64	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	300	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.03	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-012
ClientSample ID: B-012
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/9/2015 6:04:00 PM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Metals - Dissolved

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

Metals - Total

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

Radionuclides - Dissolved

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-013
ClientSample ID: B-013
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/10/2015 9:30:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-013
ClientSample ID: B-013
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/10/2015 9:30:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Aluminum	ND	mg/L		0.1	EPA 200.7	12/14/2015 1519	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	12/11/2015 2258	MS
Barium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2258	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	12/14/2015 1519	DG
Boron	ND	mg/L		0.1	EPA 200.7	12/14/2015 1519	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2258	MS
Chromium	ND	mg/L		0.01	EPA 200.7	12/14/2015 1519	DG
Copper	ND	mg/L		0.01	EPA 200.8	12/11/2015 2258	MS
Iron	0.98	mg/L		0.05	EPA 200.7	12/14/2015 1519	DG
Lead	ND	mg/L		0.01	EPA 200.8	12/11/2015 2258	MS
Manganese	0.34	mg/L		0.01	EPA 200.7	12/14/2015 1519	DG
Mercury	ND	mg/L		0.001	EPA 245.1	12/15/2015 1109	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	12/11/2015 2258	MS
Nickel	ND	mg/L		0.05	EPA 200.7	12/14/2015 1519	DG
Selenium	0.009	mg/L		0.001	EPA 200.8	12/11/2015 2258	MS
Uranium	0.876	mg/L		0.0003	EPA 200.8	12/11/2015 2258	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2258	MS
Zinc	ND	mg/L		0.01	EPA 200.7	12/14/2015 1519	DG

Metals - Total

Iron	1.09	mg/L		0.05	EPA 200.7	12/14/2015 1927	DG
Manganese	0.34	mg/L		0.01	EPA 200.7	12/14/2015 1927	DG

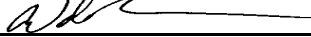
Radionuclides - Dissolved

Gross Alpha	2040	pCi/L		2	SM 7110B	12/22/2015 809	MB
Gross Alpha Precision (±)	23.6	pCi/L			SM 7110B	12/22/2015 809	MB
Gross Beta	939	pCi/L		3	SM 7110B	12/22/2015 809	MB
Gross Beta Precision (±)	10.6	pCi/L			SM 7110B	12/22/2015 809	MB
Radium 226	619	pCi/L		0.2	SM 7500 Ra-B	12/28/2015 1501	MB
Radium 226 Precision (±)	2.6	pCi/L			SM 7500 Ra-B	12/28/2015 1501	MB
Radium 228	8.9	pCi/L		1	Ga-Tech	12/31/2015 1353	MB
Radium 228 Precision (±)	2.3	pCi/L			Ga-Tech	12/31/2015 1353	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A	Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-014
ClientSample ID: B-014
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/10/2015 10:04:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: A Check MSA specifications, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by another laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect

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



Sample Analysis Report

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

Date Reported 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-014
ClientSample ID: B-014
COC: 158557

WorkOrder: S1512188
CollectionDate: 12/10/2015 10:04:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Aluminum	ND	mg/L		0.1	EPA 200.7	12/14/2015 1524	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	12/11/2015 2303	MS
Barium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2303	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	12/14/2015 1524	DG
Boron	ND	mg/L		0.1	EPA 200.7	12/14/2015 1524	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2303	MS
Chromium	ND	mg/L		0.01	EPA 200.7	12/14/2015 1524	DG
Copper	ND	mg/L		0.01	EPA 200.8	12/11/2015 2303	MS
Iron	1.22	mg/L		0.05	EPA 200.7	12/14/2015 1524	DG
Lead	ND	mg/L		0.01	EPA 200.8	12/11/2015 2303	MS
Manganese	0.05	mg/L		0.01	EPA 200.7	12/14/2015 1524	DG
Mercury	ND	mg/L		0.001	EPA 245.1	12/15/2015 1111	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	12/11/2015 2303	MS
Nickel	ND	mg/L		0.05	EPA 200.7	12/14/2015 1524	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	12/11/2015 2303	MS
Uranium	0.252	mg/L		0.0003	EPA 200.8	12/11/2015 2303	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2303	MS
Zinc	ND	mg/L		0.01	EPA 200.7	12/14/2015 1524	DG

Metals - Total

Iron	1.33	mg/L		0.05	EPA 200.7	12/14/2015 1929	DG
Manganese	0.05	mg/L		0.01	EPA 200.7	12/14/2015 1929	DG

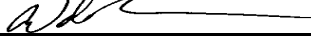
Radionuclides - Dissolved

Gross Alpha	723	pCi/L		2	SM 7110B	12/22/2015 809	MB
Gross Alpha Precision (±)	11.8	pCi/L			SM 7110B	12/22/2015 809	MB
Gross Beta	281	pCi/L		3	SM 7110B	12/22/2015 809	MB
Gross Beta Precision (±)	5.8	pCi/L			SM 7110B	12/22/2015 809	MB
Radium 226	359	pCi/L		0.2	SM 7500 Ra-B	12/29/2015 901	MB
Radium 226 Precision (±)	2.0	pCi/L			SM 7500 Ra-B	12/29/2015 901	MB
Radium 228	ND	pCi/L		1	Ga-Tech	12/31/2015 1654	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	12/31/2015 1654	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-015
ClientSample ID: B-015
COC: 162621

WorkOrder: S1512188
CollectionDate: 12/9/2015 8:36:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

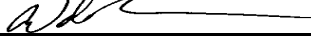
Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	75	mg/L		5	SM 2320B	12/12/2015 209	SFF
Alkalinity, Bicarbonate as HCO3	91	mg/L		5	SM 2320B	12/12/2015 209	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/12/2015 209	SFF
Chloride	2	mg/L		1	EPA 300.0	12/15/2015 1517	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	12/12/2015 209	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1412	AMB
Sulfate	23	mg/L		1	EPA 300.0	12/15/2015 1517	AB
Calcium	21	mg/L		1	EPA 200.7	12/14/2015 1531	DG
Magnesium	5	mg/L		1	EPA 200.7	12/14/2015 1531	DG
Potassium	4	mg/L		1	EPA 200.7	12/14/2015 1531	DG
Sodium	8	mg/L		1	EPA 200.7	12/14/2015 1531	DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	12/11/2015 1743	AMB
Silica as SiO2	13	mg/L		1	EPA 200.7	12/14/2015 1531	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	12/12/2015 209	SFF
Electrical Conductivity	208	µmhos/cm		5	SM 2510B	12/12/2015 209	SFF
Total Dissolved Solids (180)	120	mg/L		10	SM 2540	12/11/2015 1417	IR
Data Quality							
Cation Sum	1.92	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	2.03	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	2.80	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	120	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-015
ClientSample ID: B-015
COC: 162621

WorkOrder: S1512188
CollectionDate: 12/9/2015 8:36:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Aluminum	ND	mg/L		0.1	EPA 200.7	12/14/2015 1531	DG
Arsenic	0.022	mg/L		0.001	EPA 200.8	12/11/2015 2309	MS
Barium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2309	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	12/14/2015 1531	DG
Boron	ND	mg/L		0.1	EPA 200.7	12/14/2015 1531	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2309	MS
Chromium	ND	mg/L		0.01	EPA 200.7	12/14/2015 1531	DG
Copper	ND	mg/L		0.01	EPA 200.8	12/11/2015 2309	MS
Iron	1.07	mg/L		0.05	EPA 200.7	12/14/2015 1531	DG
Lead	ND	mg/L		0.01	EPA 200.8	12/11/2015 2309	MS
Manganese	0.04	mg/L		0.01	EPA 200.7	12/14/2015 1531	DG
Mercury	ND	mg/L		0.001	EPA 245.1	12/15/2015 1113	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	12/11/2015 2309	MS
Nickel	ND	mg/L		0.05	EPA 200.7	12/14/2015 1531	DG
Selenium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2309	MS
Uranium	0.0757	mg/L		0.0003	EPA 200.8	12/11/2015 2309	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2309	MS
Zinc	ND	mg/L		0.01	EPA 200.7	12/14/2015 1531	DG

Metals - Total

Iron	1.14	mg/L		0.05	EPA 200.7	12/14/2015 1932	DG
Manganese	0.04	mg/L		0.01	EPA 200.7	12/14/2015 1932	DG

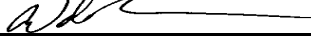
Radionuclides - Dissolved

Gross Alpha	748	pCi/L		2	SM 7110B	12/22/2015 809	MB
Gross Alpha Precision (±)	11.4	pCi/L			SM 7110B	12/22/2015 809	MB
Gross Beta	335	pCi/L		3	SM 7110B	12/22/2015 809	MB
Gross Beta Precision (±)	6.2	pCi/L			SM 7110B	12/22/2015 809	MB
Radium 226	296	pCi/L		0.2	SM 7500 Ra-B	12/29/2015 901	MB
Radium 226 Precision (±)	1.8	pCi/L			SM 7500 Ra-B	12/29/2015 901	MB
Radium 228	ND	pCi/L		1	Ga-Tech	12/31/2015 1955	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	12/31/2015 1955	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A	Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-016
ClientSample ID: B-016
COC: 162621

WorkOrder: S1512188
CollectionDate: 12/9/2015 4:09:00 PM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

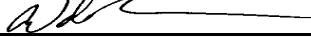
Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	127	mg/L		5	SM 2320B	12/12/2015 218	SFF
Alkalinity, Bicarbonate as HCO3	155	mg/L		5	SM 2320B	12/12/2015 218	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/12/2015 218	SFF
Chloride	9	mg/L		1	EPA 300.0	12/15/2015 1530	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	12/12/2015 218	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1413	AMB
Sulfate	69	mg/L		1	EPA 300.0	12/15/2015 1530	AB
Calcium	47	mg/L		1	EPA 200.7	12/14/2015 1533	DG
Magnesium	12	mg/L		1	EPA 200.7	12/14/2015 1533	DG
Potassium	7	mg/L		1	EPA 200.7	12/14/2015 1533	DG
Sodium	11	mg/L		1	EPA 200.7	12/14/2015 1533	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	12/11/2015 1745	AMB
Silica as SiO2	13	mg/L		1	EPA 200.7	12/14/2015 1533	DG
General Parameters							
pH	7.7	s.u.		0.1	SM 4500 H B	12/12/2015 218	SFF
Electrical Conductivity	416	µmhos/cm		5	SM 2510B	12/12/2015 218	SFF
Total Dissolved Solids (180)	250	mg/L		10	SM 2540	12/11/2015 1418	IR
Data Quality							
Cation Sum	4.02	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	4.22	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	2.36	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.04	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-016
ClientSample ID: B-016
COC: 162621

WorkOrder: S1512188
CollectionDate: 12/9/2015 4:09:00 PM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Aluminum	ND	mg/L		0.1	EPA 200.7	12/14/2015 1533	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	12/11/2015 2314	MS
Barium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2314	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	12/14/2015 1533	DG
Boron	ND	mg/L		0.1	EPA 200.7	12/14/2015 1533	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2314	MS
Chromium	ND	mg/L		0.01	EPA 200.7	12/14/2015 1533	DG
Copper	ND	mg/L		0.01	EPA 200.8	12/11/2015 2314	MS
Iron	2.38	mg/L		0.05	EPA 200.7	12/14/2015 1533	DG
Lead	ND	mg/L		0.01	EPA 200.8	12/11/2015 2314	MS
Manganese	0.09	mg/L		0.01	EPA 200.7	12/14/2015 1533	DG
Mercury	ND	mg/L		0.001	EPA 245.1	12/15/2015 1115	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	12/11/2015 2314	MS
Nickel	ND	mg/L		0.05	EPA 200.7	12/14/2015 1533	DG
Selenium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2314	MS
Uranium	0.273	mg/L		0.0003	EPA 200.8	12/11/2015 2314	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2314	MS
Zinc	ND	mg/L		0.01	EPA 200.7	12/14/2015 1533	DG

Metals - Total

Iron	2.51	mg/L		0.05	EPA 200.7	12/14/2015 1941	DG
Manganese	0.09	mg/L		0.01	EPA 200.7	12/14/2015 1941	DG

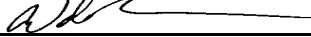
Radionuclides - Dissolved

Gross Alpha	592	pCi/L		2	SM 7110B	12/22/2015 809	MB
Gross Alpha Precision (±)	11.1	pCi/L			SM 7110B	12/22/2015 809	MB
Gross Beta	226	pCi/L		3	SM 7110B	12/22/2015 809	MB
Gross Beta Precision (±)	5.2	pCi/L			SM 7110B	12/22/2015 809	MB
Radium 226	207	pCi/L		0.2	SM 7500 Ra-B	12/29/2015 901	MB
Radium 226 Precision (±)	1.5	pCi/L			SM 7500 Ra-B	12/29/2015 901	MB
Radium 228	2.8	pCi/L		1	Ga-Tech	12/31/2015 2256	MB
Radium 228 Precision (±)	1.7	pCi/L			Ga-Tech	12/31/2015 2256	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A	Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-017
ClientSample ID: B-017
COC: 162621

WorkOrder: S1512188
CollectionDate: 12/9/2015 4:26:00 PM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	123	mg/L		5	SM 2320B	12/12/2015 227	SFF
Alkalinity, Bicarbonate as HCO3	150	mg/L		5	SM 2320B	12/12/2015 227	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/12/2015 227	SFF
Chloride	15	mg/L		1	EPA 300.0	12/15/2015 1543	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	12/12/2015 227	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1415	AMB
Sulfate	78	mg/L		1	EPA 300.0	12/15/2015 1543	AB
Calcium	52	mg/L		1	EPA 200.7	12/14/2015 1542	DG
Magnesium	13	mg/L		1	EPA 200.7	12/14/2015 1542	DG
Potassium	7	mg/L		1	EPA 200.7	12/14/2015 1542	DG
Sodium	14	mg/L		1	EPA 200.7	12/14/2015 1542	DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	12/11/2015 1746	AMB
Silica as SiO2	12	mg/L		1	EPA 200.7	12/14/2015 1542	DG
General Parameters							
pH	7.9	s.u.		0.1	SM 4500 H B	12/12/2015 227	SFF
Electrical Conductivity	461	µmhos/cm		5	SM 2510B	12/12/2015 227	SFF
Total Dissolved Solids (180)	280	mg/L		10	SM 2540	12/11/2015 1419	IR
Data Quality							
Cation Sum	4.41	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	4.50	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	1.01	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	260	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

- | | | |
|--------------------|--|--|
| Qualifiers: | A Check MSA specifications | 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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-017
ClientSample ID: B-017
COC: 162621

WorkOrder: S1512188
CollectionDate: 12/9/2015 4:26:00 PM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Aluminum	ND	mg/L		0.1	EPA 200.7	12/14/2015 1542	DG
Arsenic	0.024	mg/L		0.001	EPA 200.8	12/11/2015 2331	MS
Barium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2331	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	12/14/2015 1542	DG
Boron	ND	mg/L		0.1	EPA 200.7	12/14/2015 1542	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2331	MS
Chromium	ND	mg/L		0.01	EPA 200.7	12/14/2015 1542	DG
Copper	ND	mg/L		0.01	EPA 200.8	12/11/2015 2331	MS
Iron	1.32	mg/L		0.05	EPA 200.7	12/14/2015 1542	DG
Lead	ND	mg/L		0.01	EPA 200.8	12/11/2015 2331	MS
Manganese	0.06	mg/L		0.01	EPA 200.7	12/14/2015 1542	DG
Mercury	ND	mg/L		0.001	EPA 245.1	12/15/2015 1117	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	12/11/2015 2331	MS
Nickel	ND	mg/L		0.05	EPA 200.7	12/14/2015 1542	DG
Selenium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2331	MS
Uranium	0.432	mg/L		0.0003	EPA 200.8	12/11/2015 2331	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2331	MS
Zinc	ND	mg/L		0.01	EPA 200.7	12/14/2015 1542	DG

Metals - Total

Iron	1.54	mg/L		0.05	EPA 200.7	12/14/2015 1943	DG
Manganese	0.06	mg/L		0.01	EPA 200.7	12/14/2015 1943	DG

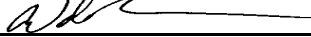
Radionuclides - Dissolved

Gross Alpha	508	pCi/L		2	SM 7110B	12/22/2015 809	MB
Gross Alpha Precision (±)	10.3	pCi/L			SM 7110B	12/22/2015 809	MB
Gross Beta	173	pCi/L		3	SM 7110B	12/22/2015 809	MB
Gross Beta Precision (±)	4.6	pCi/L			SM 7110B	12/22/2015 809	MB
Radium 226	139	pCi/L		0.2	SM 7500 Ra-B	12/29/2015 1108	MB
Radium 226 Precision (±)	1.3	pCi/L			SM 7500 Ra-B	12/29/2015 1108	MB
Radium 228	2.6	pCi/L		1	Ga-Tech	01/09/2016 454	MB
Radium 228 Precision (±)	1.3	pCi/L			Ga-Tech	01/09/2016 454	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A Check MSA specifications	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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-018
ClientSample ID: B-018
COC: 162621

WorkOrder: S1512188
CollectionDate: 12/10/2015 8:21:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: A Check MSA specifications, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by another laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect

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



Sample Analysis Report

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

Date Reported 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-018
ClientSample ID: B-018
COC: 162621

WorkOrder: S1512188
CollectionDate: 12/10/2015 8:21:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Metals - Dissolved

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

Metals - Total

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

Radionuclides - Dissolved

Table listing radionuclides (Gross Alpha, Gross 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

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

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



Sample Analysis Report

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

Date Reported 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-019
ClientSample ID: B-019
COC: 162621

WorkOrder: S1512188
CollectionDate: 12/10/2015 10:52:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	111	mg/L		5	SM 2320B	12/14/2015 1442	SFF
Alkalinity, Bicarbonate as HCO3	135	mg/L		5	SM 2320B	12/14/2015 1442	SFF
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	12/14/2015 1442	SFF
Chloride	5	mg/L		1	EPA 300.0	12/15/2015 1609	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	12/14/2015 1442	SFF
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	12/16/2015 1418	AMB
Sulfate	47	mg/L		1	EPA 300.0	12/15/2015 1609	AB
Calcium	38	mg/L		1	EPA 200.7	12/14/2015 1547	DG
Magnesium	9	mg/L		1	EPA 200.7	12/14/2015 1547	DG
Potassium	5	mg/L		1	EPA 200.7	12/14/2015 1547	DG
Sodium	11	mg/L		1	EPA 200.7	12/14/2015 1547	DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	12/11/2015 1749	AMB
Silica as SiO2	11	mg/L		1	EPA 200.7	12/14/2015 1547	DG
General Parameters							
pH	7.5	s.u.		0.1	SM 4500 H B	12/14/2015 1442	SFF
Electrical Conductivity	343	µmhos/cm		5	SM 2510B	12/14/2015 1442	SFF
Total Dissolved Solids (180)	200	mg/L		10	SM 2540	12/11/2015 1421	IR
Data Quality							
Cation Sum	3.22	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Anion Sum	3.34	meq/L		0.01	SM 1030E	12/18/2015 1023	JJ
Cation-Anion Balance (± 5%)	1.75	%		0.01	SM 1030E	12/18/2015 1023	JJ
Solids, Total Dissolved (Calc)	190	mg/L		10	SM 1030E	12/18/2015 1023	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.05	dec. %		0.01	Calculation	01/06/2016 1151	WN

These results apply only to the samples tested.

RL - Reporting Limit

- | | | |
|--------------------|--|--|
| Qualifiers: | A Check MSA specifications | 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 another 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 1/11/2016
Report ID S1512188001

ProjectName: MU1 Qrtly Stability Monitoring
Lab ID: S1512188-019
ClientSample ID: B-019
COC: 162621

WorkOrder: S1512188
CollectionDate: 12/10/2015 10:52:00 AM
DateReceived: 12/11/2015 11:26:00 AM
FieldSampler: KA
Matrix: Water

Comments

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

Aluminum	ND	mg/L		0.1	EPA 200.7	12/14/2015 1547	DG
Arsenic	0.013	mg/L		0.001	EPA 200.8	12/11/2015 2352	MS
Barium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2352	MS
Beryllium	ND	mg/L		0.001	EPA 200.7	12/14/2015 1547	DG
Boron	ND	mg/L		0.1	EPA 200.7	12/14/2015 1547	DG
Cadmium	ND	mg/L		0.001	EPA 200.8	12/11/2015 2352	MS
Chromium	ND	mg/L		0.01	EPA 200.7	12/14/2015 1547	DG
Copper	ND	mg/L		0.01	EPA 200.8	12/11/2015 2352	MS
Iron	0.96	mg/L		0.05	EPA 200.7	12/14/2015 1547	DG
Lead	ND	mg/L		0.01	EPA 200.8	12/11/2015 2352	MS
Manganese	0.07	mg/L		0.01	EPA 200.7	12/14/2015 1547	DG
Mercury	ND	mg/L		0.001	EPA 245.1	12/15/2015 1135	AW
Molybdenum	ND	mg/L		0.01	EPA 200.8	12/11/2015 2352	MS
Nickel	ND	mg/L		0.05	EPA 200.7	12/14/2015 1547	DG
Selenium	0.004	mg/L		0.001	EPA 200.8	12/11/2015 2352	MS
Uranium	0.772	mg/L		0.0003	EPA 200.8	12/11/2015 2352	MS
Vanadium	ND	mg/L		0.1	EPA 200.8	12/11/2015 2352	MS
Zinc	ND	mg/L		0.01	EPA 200.7	12/14/2015 1547	DG

Metals - Total

Iron	1.04	mg/L		0.05	EPA 200.7	12/14/2015 1948	DG
Manganese	0.07	mg/L		0.01	EPA 200.7	12/14/2015 1948	DG

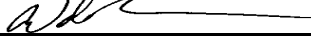
Radionuclides - Dissolved

Gross Alpha	1010	pCi/L		2	SM 7110B	12/28/2015 1123	MB
Gross Alpha Precision (±)	13.3	pCi/L			SM 7110B	12/28/2015 1123	MB
Gross Beta	375	pCi/L		3	SM 7110B	12/28/2015 1123	MB
Gross Beta Precision (±)	6.3	pCi/L			SM 7110B	12/28/2015 1123	MB
Radium 226	335	pCi/L		0.2	SM 7500 Ra-B	12/29/2015 1108	MB
Radium 226 Precision (±)	2.0	pCi/L			SM 7500 Ra-B	12/29/2015 1108	MB
Radium 228	1.5	pCi/L		1	Ga-Tech	01/09/2016 1056	MB
Radium 228 Precision (±)	1.6	pCi/L			Ga-Tech	01/09/2016 1056	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	A Check MSA specifications	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 another 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: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Alkalinity		Sample Type	MBLK		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
BLANK (12/14/15 14:00)	129415								
Alkalinity, Total (As CaCO3)		ND	5						

Alkalinity		Sample Type	LCS		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
ATQC (12/14/15 13:51)	129415								
Alkalinity, Total (As CaCO3)		605	5	595		102	90 - 110		

Alkalinity		Sample Type	DUP		Units: mg/L				
Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
S1512188-011AD (12/12/15 01:30)	129370								
Alkalinity, Bicarbonate as HCO3		271	5	270	0.207		20		
Alkalinity, Carbonate as CO3		ND	5	ND			20		
Alkalinity, Total (As CaCO3)		222	5	222	0.207		20		

S1512188-018AD (12/12/15 03:01)		RunNo:	129370		Units: mg/L				
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual		
Alkalinity, Bicarbonate as HCO3	138	5	139	0.977		20			
Alkalinity, Carbonate as CO3	ND	5	ND			20			
Alkalinity, Total (As CaCO3)	113	5	114	0.977		20			

Conductivity		Sample Type	MBLK		Units: µmhos/cm				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
BLANK (12/11/15 14:48)	129370								
Electrical Conductivity		ND	5						

Conductivity		Sample Type	LCS		Units: µmhos/cm				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
ATQC (12/11/15 14:39)	129370								
Electrical Conductivity		1050	5	1060		98.6	90 - 110		

Conductivity		Sample Type	DUP		Units: µmhos/cm				
Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
S1512188-001AD (12/11/15 23:33)	129370								
Electrical Conductivity		478	5	481	0.626		20		

S1512188-011AD (12/12/15 01:30)		RunNo:	129370		Units: µmhos/cm				
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual		
Electrical Conductivity	654	5	652	0.306		20			

- Qualifiers:**
- A Check MSA specifications
 - 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
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by another laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Dissolved Mercury by EPA 245.1 - Water

Sample Type **MBLK**

Units: mg/L

LRB (12/15/15 11:25)	RunNo: 129450							
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 (12/15/15 08:31)	RunNo: 129450							
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Mercury	0.002	0.001	0.00197		94.5	85 - 115		

Dissolved Mercury by EPA 245.1 - Water

Sample Type **MS**

Units: mg/L

S1512188-008D (12/15/15 10:58)	RunNo: 129450							
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Mercury	0.002	0.001	0.00197	ND	96.8	70 - 130		

S1512188-018D (12/15/15 11:31)	RunNo: 129450							
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Mercury	0.002	0.001	0.00197	ND	95.8	70 - 130		

Dissolved Mercury by EPA 245.1 - Water

Sample Type **MSD**

Units: mg/L

S1512188-008D (12/15/15 11:00)	RunNo: 129450							
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Mercury	0.002	0.001	0.002	1.99	94.9	20		

S1512188-018D (12/15/15 11:33)	RunNo: 129450							
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Mercury	0.002	0.001	0.002	0.851	95.0	20		

- Qualifiers:**
- A Check MSA specifications
 - 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
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by another laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Dissolved Metals by ICP - EPA 200.7 - Water

Sample Type **MBLK**

Units: mg/L

MBLK DISS/CAT (12/14/15 11:00)		RunNo: 129408						
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 (12/14/15 11:03)		RunNo: 129408						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Aluminum	1.0	0.1	1		98.8	85 - 115		
Beryllium	0.99	0.01	1		99.2	85 - 115		
Boron	1.0	0.1	1		95.5	85 - 115		
Chromium	0.95	0.01	1		95.4	85 - 115		
Iron	0.97	0.05	1		97.4	85 - 115		
Manganese	0.98	0.02	1		97.9	85 - 115		
Nickel	0.94	0.01	1		94.3	85 - 115		
Zinc	1.00	0.01	1		100	85 - 115		

Dissolved Metals by ICP - EPA 200.7 - Water

Sample Type **MS**

Units: mg/L

S1512188-004DS (12/14/15 14:50)		RunNo: 129408						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Aluminum	0.3	0.1	0.25	ND	98.7	70 - 130		
Beryllium	0.273	0.001	0.25	ND	109	70 - 130		
Boron	0.3	0.1	0.25	ND	98.0	70 - 130		
Chromium	0.25	0.01	0.25	ND	100	70 - 130		
Iron	1.61	0.05	0.25	1.43	73.0	70 - 130		
Manganese	0.33	0.01	0.25	0.09	98.8	70 - 130		
Nickel	0.25	0.05	0.25	ND	97.3	70 - 130		
Zinc	0.26	0.01	0.25	ND	105	70 - 130		

S1512188-014DS (12/14/15 15:26)		RunNo: 129408						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Aluminum	0.3	0.1	0.25	ND	102	70 - 130		
Beryllium	0.274	0.001	0.25	ND	110	70 - 130		
Boron	0.3	0.1	0.25	ND	103	70 - 130		
Chromium	0.25	0.01	0.25	ND	101	70 - 130		
Iron	1.42	0.05	0.25	1.22	79.3	70 - 130		
Manganese	0.31	0.01	0.25	0.05	103	70 - 130		
Nickel	0.25	0.05	0.25	ND	99.3	70 - 130		
Zinc	0.27	0.01	0.25	ND	108	70 - 130		

- Qualifiers:**
- A Check MSA specifications
 - 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
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by another laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Dissolved Metals by ICP - EPA 200.7 - Water

Sample Type **MSD**

Units: mg/L

S1512188-004DSD (12/14/15 14:52)		RunNo: 129408					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Aluminum	0.2	0.1	0.3	6.26	92.5	20	
Beryllium	0.250	0.001	0.273	8.82	99.9	20	
Boron	0.3	0.1	0.3	8.04	88.4	20	
Chromium	0.23	0.01	0.25	9.54	91.0	20	
Iron	1.59	0.05	1.61	1.55	63.1	20	S
Manganese	0.31	0.01	0.33	6.33	90.6	20	
Nickel	0.23	0.05	0.25	9.11	88.5	20	
Zinc	0.24	0.01	0.26	9.36	95.4	20	

S1512188-014DSD (12/14/15 15:28)		RunNo: 129408					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Aluminum	0.2	0.1	0.3	16.4	86.2	20	
Beryllium	0.237	0.001	0.274	14.7	94.7	20	
Boron	0.3	0.1	0.3	11.1	88.7	20	
Chromium	0.22	0.01	0.25	15.3	87.0	20	
Iron	1.39	0.05	1.42	1.98	68.2	20	S
Manganese	0.28	0.01	0.31	12.6	88.4	20	
Nickel	0.22	0.05	0.25	15.7	84.6	20	
Zinc	0.23	0.01	0.27	15.7	92.0	20	

- Qualifiers:**
- A Check MSA specifications
 - 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 another 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: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Dissolved Metals by ICPMS EPA 200.8 - Water

Sample Type **MBLK**

Units: mg/L

MBLK (12/11/15 13:47)		RunNo: 129362						
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 - Water

Sample Type **LCS**

Units: mg/L

LCS (12/11/15 13:42)		RunNo: 129362						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Arsenic	0.103	0.005	0.1		103	85 - 115		
Barium	0.1	0.1	0.1		103	85 - 115		
Cadmium	0.101	0.001	0.1		101	85 - 115		
Copper	0.10	0.01	0.1		103	85 - 115		
Lead	0.10	0.02	0.1		104	85 - 115		
Molybdenum	0.10	0.02	0.1		103	85 - 115		
Selenium	0.103	0.001	0.1		103	85 - 115		
Uranium	0.103	0.0003	0.1		103	85 - 115		
Vanadium	0.10	0.02	0.1		103	85 - 115		

Dissolved Metals by ICPMS EPA 200.8 - Water

Sample Type **MS**

Units: mg/L

S1512188-009DS (12/11/15 22:31)		RunNo: 129362						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Arsenic	1.13	0.001	1.1	0.015	101	70 - 130		
Barium	1.1	0.1	1.1	ND	98.2	70 - 130		
Cadmium	1.08	0.001	1.1	ND	98.0	70 - 130		
Copper	1.08	0.01	1.1	ND	97.8	70 - 130		
Lead	1.11	0.01	1.1	ND	101	70 - 130		
Molybdenum	1.09	0.01	1.1	ND	99.3	70 - 130		
Selenium	1.13	0.001	1.1	0.002	102	70 - 130		
Uranium	2.12	0.0003	1.1	1.06	95.6	70 - 130		
Vanadium	1.1	0.1	1.1	ND	99.0	70 - 130		

S1512188-019DS (12/12/15 00:03)		RunNo: 129362						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Arsenic	1.09	0.001	1.1	0.013	98.0	70 - 130		
Barium	1.1	0.1	1.1	ND	98.0	70 - 130		
Cadmium	1.07	0.001	1.1	ND	97.1	70 - 130		
Copper	1.09	0.01	1.1	ND	98.7	70 - 130		
Lead	1.12	0.01	1.1	ND	101	70 - 130		

- Qualifiers:**
- A Check MSA specifications
 - 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
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by another laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Dissolved Metals by ICPMS EPA 200.8 - Water

Sample Type **MS**

Units: mg/L

S1512188-019DS (12/12/15 00:03)		RunNo: 129362					
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Molybdenum	1.08	0.01	1.1	ND	98.3	70 - 130	
Selenium	1.11	0.001	1.1	0.004	101	70 - 130	
Uranium	1.78	0.0003	1.1	0.772	91.5	70 - 130	
Vanadium	1.1	0.1	1.1	ND	97.0	70 - 130	

Dissolved Metals by ICPMS EPA 200.8 - Water

Sample Type **MSD**

Units: mg/L

S1512188-009DMSD (12/11/15 22:36)		RunNo: 129362					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Arsenic	1.13	0.001	1.13	0.333	101	20	
Barium	1.1	0.1	1.1	1.91	96.3	20	
Cadmium	1.07	0.001	1.08	0.500	97.5	20	
Copper	1.09	0.01	1.08	1.42	99.2	20	
Lead	1.09	0.01	1.11	1.95	99.2	20	
Molybdenum	1.13	0.01	1.09	3.02	102	20	
Selenium	1.12	0.001	1.13	0.758	102	20	
Uranium	2.13	0.0003	2.12	0.607	96.8	20	
Vanadium	1.1	0.1	1.1	0.0234	99.0	20	

S1512188-019DMSD (12/12/15 00:08)		RunNo: 129362					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Arsenic	1.10	0.001	1.09	0.886	98.9	20	
Barium	1.1	0.1	1.1	1.37	96.6	20	
Cadmium	1.04	0.001	1.07	2.34	94.8	20	
Copper	1.10	0.01	1.09	1.43	100	20	
Lead	1.08	0.01	1.12	3.16	98.3	20	
Molybdenum	1.09	0.01	1.08	1.02	99.3	20	
Selenium	1.11	0.001	1.11	0.142	101	20	
Uranium	1.84	0.0003	1.78	3.20	96.7	20	
Vanadium	1.1	0.1	1.1	2.09	99.0	20	

- Qualifiers:**
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 - B Analyte detected in the associated Method Blank
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 - J Analyte detected below quantitation limits
 - L Analyzed by another 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: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Fluoride by SM 4500		Sample Type	MBLK		Units: mg/L				
BLANK (12/11/15 14:48)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Fluoride	129370	ND	0.1					

Fluoride by SM 4500		Sample Type	LCS		Units: mg/L				
ATQC (12/14/15 13:51)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Fluoride	129415	3.1	0.1	3		102	85 - 115	

Fluoride by SM 4500		Sample Type	MS		Units: mg/L				
S1512188-008A (12/12/15 00:46)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Fluoride	129370	2.7	0.1	2.5	0.3	98.0	80 - 120	

S1512188-017A (12/12/15 02:35)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Fluoride	129370	2.8	0.1	2.5	0.2	104	80 - 120	

Fluoride by SM 4500		Sample Type	MSD		Units: mg/L				
S1512188-008A (12/12/15 00:49)	Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
	Fluoride	129370	2.8	0.1	2.7	4.29	103	20	

S1512188-017A (12/12/15 02:38)	Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
	Fluoride	129370	2.8	0.1	2.8	0.507	104	20	

- Qualifiers:**
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 - R RPD outside accepted recovery limits
 - X Matrix Effect
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by another laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits

**ANALYTICAL QC SUMMARY REPORT**

CLIENT: Power Resources (Cameco)
Work Order: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Gross Alpha, Beta by SM 7110BSample Type **MBLK**

Units: pCi/L

MB-367 (12/21/15 16:34)	RunNo: 129716	PrepDate: 12/17/15 0:00	BatchID: R129716				Qual
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Gross Alpha (Dissolved)	ND	2					
Gross Beta (Dissolved)	ND	3					

MB-370 (01/12/16 11:04)	RunNo: 130214	PrepDate: 01/08/16 0:00	BatchID: R130214				Qual
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Gross Alpha (Dissolved)	ND	2					
Gross Beta (Dissolved)	ND	3					

Gross Alpha, Beta by SM 7110BSample Type **LCS**

Units: pCi/L

LCS-367 (12/21/15 16:34)	RunNo: 129716	PrepDate: 12/17/15 0:00	BatchID: R129716				Qual
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Gross Alpha (Dissolved)	96	2	79		121	77.4 - 130	
Gross Beta (Dissolved)	149	3	121		123	80 - 131	

LCS-370 (01/12/16 11:04)	RunNo: 130214	PrepDate: 01/08/16 0:00	BatchID: R130214				Qual
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Gross Alpha (Dissolved)	95	2	79		119	77.4 - 130	
Gross Beta (Dissolved)	151	3	121		125	80 - 131	

Gross Alpha, Beta by SM 7110BSample Type **MS**

Units: pCi/L

S1512170-001E MSA (12/21/15 16:34)	RunNo: 129716	PrepDate: 12/17/15 0:00	BatchID: R129716				Qual
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Gross Alpha (Dissolved)	83	2	79	3	101	52.4 - 124	
Gross Beta (Dissolved)	161	3	121	6	128	80 - 145	

S1512345-001F MS (01/12/16 11:04)	RunNo: 130214	PrepDate: 01/08/16 0:00	BatchID: R130214				Qual
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Gross Alpha (Dissolved)	134	2	79	54	102	52.4 - 124	
Gross Beta (Dissolved)	186	3	121	23	135	80 - 145	

Gross Alpha, Beta by SM 7110BSample Type **DUP**

Units: pCi/L

S1512196-001E DUP (12/28/15 11:23)	RunNo: 129828	PrepDate: 12/23/15 0:00	BatchID: R129828				Qual
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual
Gross Alpha (Dissolved)	16	2	19	15.6		20	
Gross Beta (Dissolved)	11	3	10	2.55		20	

Qualifiers:	A Check MSA specifications	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 another 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: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Anions by ION Chromatography

Sample Type **MBLK**

Units: mg/L

BLK (12/15/15 10:56)		RunNo: 129454						
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 (12/15/15 10:04)		RunNo: 129454						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Chloride	30	1	30		98.5	90 - 110		
Sulfate	145	1	150		96.4	90 - 110		

Anions by ION Chromatography

Sample Type **MS**

Units: mg/L

S1512188-010ASPK (12/15/15 13:33)		RunNo: 129454						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Chloride	86	1	54.5	26	110	80 - 120		
Sulfate	590	1	409	148	108	80 - 120		

S1512190-001ASPK (12/15/15 16:48)		RunNo: 129454						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Chloride	255	1	236	12	103	80 - 120		
Sulfate	3110	1	1770	1180	109	80 - 120		

Anions by ION Chromatography

Sample Type **MSD**

Units: mg/L

S1512188-010ASPKD (12/15/15 13:46)		RunNo: 129454						
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Chloride	88	1	86	2.32	114	20		
Sulfate	604	1	590	2.38	112	20		

S1512190-001ASPKD (12/15/15 17:01)		RunNo: 129454						
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Chloride	259	1	255	1.45	105	20		
Sulfate	3160	1	3110	1.60	112	20		

- Qualifiers:**
- A Check MSA specifications
 - 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
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by another laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Cations by ICP (Method 200.7)

Sample Type **MBLK**

Units: mg/L

MBLK DISS/CAT (12/14/15 11:00)		RunNo: 129399					
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 (12/14/15 11:05)		RunNo: 129399					
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Calcium	39	1	40		97.0	85 - 115	
Magnesium	40	1	40		98.7	85 - 115	
Potassium	40	1	40		101	85 - 115	
Sodium	41	1	40		102	85 - 115	

Cations by ICP (Method 200.7)

Sample Type **MS**

Units: mg/L

S1512188-004AS (12/14/15 14:50)		RunNo: 129399					
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Calcium	82	1	25	59	91.7	70 - 130	
Magnesium	39	1	25	14	98.4	70 - 130	
Potassium	35	1	25	7	112	70 - 130	
Sodium	44	1	25	20	97.1	70 - 130	

S1512188-014AS (12/14/15 15:26)		RunNo: 129399					
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Calcium	67	1	25	42	98.8	70 - 130	
Magnesium	36	1	25	11	104	70 - 130	
Potassium	36	1	25	7	116	70 - 130	
Sodium	37	1	25	12	103	70 - 130	

Cations by ICP (Method 200.7)

Sample Type **MSD**

Units: mg/L

S1512188-004ASD (12/14/15 14:52)		RunNo: 129399					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Calcium	80	1	82	2.78	82.7	20	
Magnesium	37	1	39	6.48	88.6	20	
Potassium	33	1	35	6.68	103	20	
Sodium	42	1	44	4.82	88.8	20	

S1512188-014ASD (12/14/15 15:28)		RunNo: 129399					
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Calcium	63	1	67	5.48	84.6	20	
Magnesium	32	1	36	12.0	87.2	20	
Potassium	31	1	36	13.6	97.2	20	
Sodium	33	1	37	11.9	85.9	20	

- Qualifiers:**
- A Check MSA specifications
 - 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
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by another laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Nitrogen, Ammonia (as N)		Sample Type	MBLK		Units: mg/L				
BLANK (12/11/15 14:17)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Nitrogen, Ammonia (As N)	129384	ND	0.1					

Nitrogen, Ammonia (as N)		Sample Type	LCS		Units: mg/L				
QC (12/11/15 14:19)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Nitrogen, Ammonia (As N)	129384	2.7	0.1	2.5		107	90 - 110	

Nitrogen, Ammonia (as N)		Sample Type	MS		Units: mg/L				
S1512188-009C (12/11/15 17:30)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Nitrogen, Ammonia (As N)	129384	2.9	0.1	2.5	0.4	99.1	90 - 110	

S1512188-019C (12/11/15 17:51)	Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
	Nitrogen, Ammonia (As N)	129384	2.6	0.1	2.5	0.1	98.4	90 - 110	

Nitrogen, Ammonia (as N)		Sample Type	MSD		Units: mg/L				
S1512188-009C (12/11/15 17:31)	Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
	Nitrogen, Ammonia (As N)	129384	2.8	0.1	2.9	4.93	93.5	20	

S1512188-019C (12/11/15 17:53)	Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
	Nitrogen, Ammonia (As N)	129384	2.6	0.1	2.6	0.0258	98.4	20	

- Qualifiers:**
- A Check MSA specifications
 - 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
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by another laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Nitrogen, Nitrate-Nitrite (as N)		Sample Type	MBLK		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
BLANK (12/16/15 12:48)	129514								
Nitrogen, Nitrate-Nitrite (as N)		ND	0.1						

Nitrogen, Nitrate-Nitrite (as N)		Sample Type	LCS		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
QC (12/16/15 12:51)	129514								
Nitrogen, Nitrate-Nitrite (as N)		10.0	0.1	9.49		105	90 - 110		

Nitrogen, Nitrate-Nitrite (as N)		Sample Type	MS		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
S1512188-003C (12/16/15 13:39)	129514								
Nitrogen, Nitrate-Nitrite (as N)		2.3	0.1	2.5	ND	91.4	90 - 110		

Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
S1512188-013C (12/16/15 14:03)	129514							
Nitrogen, Nitrate-Nitrite (as N)		2.5	0.1	2.5	ND	100	90 - 110	

Nitrogen, Nitrate-Nitrite (as N)		Sample Type	MSD		Units: mg/L				
Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
S1512188-003C (12/16/15 13:40)	129514								
Nitrogen, Nitrate-Nitrite (as N)		2.3	0.1	2.3	0.480	91.9	20		

Analyte	RunNo:	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
S1512188-013C (12/16/15 14:04)	129514							
Nitrogen, Nitrate-Nitrite (as N)		2.5	0.1	2.5	0.360	99.8	20	

- Qualifiers:**
- A Check MSA specifications
 - 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 another 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: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Radium 228 by Ga/Tech

Sample Type **MBLK**

Units: pCi/L

MB-308 (12/29/15 10:37)	RunNo: 130031	PrepDate: 12/17/15 12:00	BatchID: 11235
Analyte	Result	RL	Spike Ref Samp %REC % Rec Limits Qual

Radium 228 (Dissolved) ND 1

MB-311 (01/08/16 13:49)	RunNo: 130148	PrepDate: 12/30/15 12:00	BatchID: 11263
Analyte	Result	RL	Spike Ref Samp %REC % Rec Limits Qual

Radium 228 (Dissolved) ND 1

Radium 228 by Ga/Tech

Sample Type **LCS**

Units: pCi/L

LCS-308 (12/29/15 13:38)	RunNo: 130031	PrepDate: 12/17/15 12:00	BatchID: 11235
Analyte	Result	RL	Spike Ref Samp %REC % Rec Limits Qual

Radium 228 (Dissolved) 32 1 40.1 80.4 61.3 - 120

LCS-311 (01/08/16 16:50)	RunNo: 130148	PrepDate: 12/30/15 12:00	BatchID: 11263
Analyte	Result	RL	Spike Ref Samp %REC % Rec Limits Qual

Radium 228 (Dissolved) 36 1 40.1 89.0 61.3 - 120

Radium 228 by Ga/Tech

Sample Type **MS**

Units: pCi/L

MS-308 (12/29/15 19:40)	RunNo: 130031	PrepDate: 12/17/15 12:00	BatchID: 11235
Analyte	Result	RL	Spike Ref Samp %REC % Rec Limits Qual

Radium 228 (Dissolved) 34 1 40.1 ND 84.6 64.3 - 120

MS-311 (01/08/16 22:52)	RunNo: 130148	PrepDate: 12/30/15 12:00	BatchID: 11263
Analyte	Result	RL	Spike Ref Samp %REC % Rec Limits Qual

Radium 228 (Dissolved) 34 1 40.1 ND 84.1 64.3 - 120

Radium 228 by Ga/Tech

Sample Type **MSD**

Units: pCi/L

MSD-308 (12/29/15 22:41)	RunNo: 130031	PrepDate: 12/17/15 12:00	BatchID: 11235
Analyte	Result	RL	Conc %RPD %REC % RPD Limits Qual

Radium 228 (Dissolved) 34 1 34 0.363 84.9 20

MSD-311 (01/09/16 01:53)	RunNo: 130148	PrepDate: 12/30/15 12:00	BatchID: 11263
Analyte	Result	RL	Conc %RPD %REC % RPD Limits Qual

Radium 228 (Dissolved) 35 1 34 4.58 88.1 20

- Qualifiers:**
- A Check MSA specifications
 - 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
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by another laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Radium 226 in Water - Dissolved

Sample Type **MBLK**

Units: pCi/L

MB-1557 (12/28/15 15:01)	RunNo: 129875	PrepDate: 12/16/15 0:00	BatchID: 11215				
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual

Radium 226 (Dissolved) ND 0.2

MB-1558 (12/29/15 11:08)	RunNo: 129876	PrepDate: 12/21/15 0:00	BatchID: 11221				
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual

Radium 226 (Dissolved) ND 0.2

Radium 226 in Water - Dissolved

Sample Type **LCS**

Units: pCi/L

LCS-1557 (12/28/15 15:01)	RunNo: 129875	PrepDate: 12/16/15 0:00	BatchID: 11215				
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual

Radium 226 (Dissolved) 4.5 0.2 5.21 85.5 72.5 - 120

LCS-1558 (12/29/15 11:08)	RunNo: 129876	PrepDate: 12/21/15 0:00	BatchID: 11221				
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual

Radium 226 (Dissolved) 4.4 0.2 5.21 84.4 72.5 - 120

Radium 226 in Water - Dissolved

Sample Type **LCSD**

Units: pCi/L

LCSD-1557 (12/28/15 15:01)	RunNo: 129875	PrepDate: 12/16/15 0:00	BatchID: 11215				
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual

Radium 226 (Dissolved) 4.7 0.2 4.5 4.67 89.5 20

LCSD-1558 (12/29/15 11:08)	RunNo: 129876	PrepDate: 12/21/15 0:00	BatchID: 11221				
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual

Radium 226 (Dissolved) 4.4 0.2 4.4 0.685 83.8 20

Radium 226 in Water - Dissolved

Sample Type **MS**

Units: pCi/L

S1512196-003E MS (12/29/15 11:08)	RunNo: 129876	PrepDate: 12/21/15 0:00	BatchID: 11221				
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual

Radium 226 (Dissolved) 4.3 0.2 5.21 0.3 76.7 69.6 - 120

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Silica as SiO2		Sample Type	MBLK		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
MBLK DISS/CAT (12/14/15 11:00)	129417								
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 (12/14/15 11:03)	129417								
Silica as SiO2		2.0	0.1	2.14		95.3	85 - 115		

Silica as SiO2		Sample Type	DUP		Units: mg/L				
Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
S1512188-003DD (12/14/15 14:46)	129417								
Silica as SiO2		13	1	13	0.380		20		

S1512188-013DD (12/14/15 15:22)		RunNo:	129417		Units: mg/L				
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual		
Silica as SiO2	11	1	11	0.930		20			

Solids By SM 2540		Sample Type	MBLK		Units: mg/L				
Analyte	RunNo:	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
DI (12/11/15 13:32)	129475								
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 (12/11/15 13:33)	129475								
Total Dissolved Solids (180)		220	10	226		99.1	90 - 110		

Solids By SM 2540		Sample Type	DUP		Units: mg/L				
Analyte	RunNo:	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
S1512188-010A (12/11/15 14:12)	129475								
Total Dissolved Solids (180)		560	10	550	1.81		20		

S1512188-019A (12/11/15 14:22)		RunNo:	129475		Units: mg/L				
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual		
Total Dissolved Solids (180)	200	10	200	1.02		20			

- Qualifiers:**
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 - X Matrix Effect
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by another laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1512188
Project: MU1 Qrtly Stability Monitoring

Date: 1/13/2016
Report ID: S1512188001

Total (200.2) Metals by EPA 200.7 ICP - Water

Sample Type **MBLK**

Units: mg/L

MB-11152 (12/14/15 19:57)	RunNo: 129424	PrepDate: 12/14/15 6:15	BatchID: 11152				Qual
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-11152 (12/14/15 20:00)	RunNo: 129424	PrepDate: 12/14/15 6:15	BatchID: 11152				Qual
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Iron	0.50	0.05	0.5		99.8	85 - 115	
Manganese	0.19	0.02	0.2		94.0	85 - 115	

Total (200.2) Metals by EPA 200.7 ICP - Water

Sample Type **MS**

Units: mg/L

S1512188-002ES (12/14/15 18:45)	RunNo: 129424	PrepDate: 12/14/15 6:15	BatchID: 11152				Qual
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Iron	0.95	0.05	0.5	0.43	103	70 - 130	
Manganese	0.24	0.01	0.2	0.06	89.8	70 - 130	

S1512188-012ES (12/14/15 19:22)	RunNo: 129424	PrepDate: 12/14/15 6:15	BatchID: 11152				Qual
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Iron	3.79	0.05	0.5	3.25	109	70 - 130	
Manganese	0.27	0.01	0.2	0.09	92.7	70 - 130	

Total (200.2) Metals by EPA 200.7 ICP - Water

Sample Type **MSD**

Units: mg/L

S1512188-002EMSD (12/14/15 18:47)	RunNo: 129424	PrepDate: 12/14/15 6:15	BatchID: 11152				Qual
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Iron	0.95	0.05	0.95	0.0775	103	20	
Manganese	0.24	0.01	0.24	0.502	89.2	20	

S1512188-012EMSD (12/14/15 19:25)	RunNo: 129424	PrepDate: 12/14/15 6:15	BatchID: 11152				Qual
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Iron	3.78	0.05	3.79	0.470	105	20	
Manganese	0.27	0.01	0.27	0.223	92.4	20	

pH Water

Sample Type **LCS**

Units: s.u.

ATQC (12/14/15 13:51)	RunNo: 129415							Qual
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
pH	8.7	0.1	8.6		102	90 - 110		

pH Water

Sample Type **DUP**

Units: s.u.

S1512188-001AD (12/11/15 23:33)	RunNo: 129370							Qual
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
pH	7.5	0.1	7.5	0.173		20		

S1512188-011AD (12/12/15 01:30)	RunNo: 129370							Qual
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
pH	7.8	0.1	7.8	0.0496		20		

- Qualifiers:**
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 - R RPD outside accepted recovery limits
 - X Matrix Effect
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by another laboratory
 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits