



Sample Analysis Report

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

Date Reported 1/9/2014
Report ID S1312159001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312159-001
ClientSample ID: BOW 2010-1
COC:

WorkOrder: S1312159
CollectionDate: 12/10/2013
DateReceived: 12/12/2013 1:19:00 PM
FieldSampler:
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, etc.), and Data Quality (Cation Sum, Anion Sum, etc.).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: * Value exceeds Maximum Contaminant Level
C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

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



Sample Analysis Report

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

Date Reported 1/9/2014
Report ID S1312159001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312159-001
ClientSample ID: BOW 2010-1
COC:

WorkOrder: S1312159
CollectionDate: 12/10/2013
DateReceived: 12/12/2013 1:19:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	12/13/2013 1546	DG
Arsenic	0.007	mg/L		0.001	EPA 200.8	12/13/2013 229	MS
Barium	0.2	mg/L		0.1	EPA 200.8	12/13/2013 229	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	12/13/2013 1546	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	12/13/2013 229	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1546	DG
Copper	0.01	mg/L		0.01	EPA 200.8	12/13/2013 229	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1546	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	12/13/2013 229	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	12/13/2013 1546	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	12/17/2013 1204	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 229	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1546	DG
Selenium	0.008	mg/L		0.001	EPA 200.8	12/13/2013 229	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	12/13/2013 229	MS
Uranium Activity	0.3	pCi/L		0.2	Calculation	01/09/2014 1535	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 229	MS
Zinc	0.07	mg/L		0.01	EPA 200.7	12/13/2013 1546	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	12/18/2013 1725	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	01/09/2014 1535	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	01/03/2014 1227	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/03/2014 1227	SH
Polonium 210	<1	pCi/L		1	OTW01	01/03/2014 1122	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/03/2014 1122	SH
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	12/26/2013 1556	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	12/26/2013 1556	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	12/30/2013 822	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	12/30/2013 822	MB
Thorium 229 Tracer (30-120)	120	%			ACW10	12/30/2013 822	MB

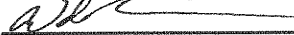
These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 1/9/2014
Report ID S1312159001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312159-001
ClientSample ID: BOW 2010-1
COC:

WorkOrder: S1312159
CollectionDate: 12/10/2013
DateReceived: 12/12/2013 1:19:00 PM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: * Value exceeds Maximum Contaminant Level, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

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

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



Sample Analysis Report

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

Date Reported 3/27/2014
Report ID S1402335001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402335-004
ClientSample ID: BOW 2010-1
COC: WEB

WorkOrder: S1402335
CollectionDate: 2/25/2014
DateReceived: 2/27/2014 11:49:00 AM
FieldSampler:
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 3/27/2014
Report ID S1402335001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402335-004
ClientSample ID: BOW 2010-1
COC: WEB

WorkOrder: S1402335
CollectionDate: 2/25/2014
DateReceived: 2/27/2014 11:49:00 AM
FieldSampler:
Matrix: Water


Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	02/28/2014 1506	DG
Arsenic	0.007	mg/L		0.001	EPA 200.8	02/27/2014 2045	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/27/2014 2045	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	02/28/2014 1506	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/27/2014 2045	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1506	DG
Copper	0.01	mg/L		0.01	EPA 200.8	02/27/2014 2045	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1506	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/27/2014 2045	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	02/28/2014 1506	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 936	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2045	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1506	DG
Selenium	0.008	mg/L		0.001	EPA 200.8	02/27/2014 2045	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	02/27/2014 2045	MS
Uranium Activity	0.3	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2045	MS
Zinc	0.11	mg/L		0.01	EPA 200.7	02/28/2014 1506	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2155	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	03/11/2014 1423	SH
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	03/11/2014 1423	SH
Polonium 210	<1	pCi/L		1	OTW01	03/05/2014 1205	SH
Polonium 210 (Dissolved) Precision (±)	0.1	pCi/L			OTW01	03/05/2014 1205	SH
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	03/14/2014 1522	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	03/14/2014 1522	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/17/2014 1606	MB
Thorium 230 Precision (±)	0.02	pCi/L			ACW10	03/17/2014 1606	MB
Thorium 229 Tracer (30-120)	80	%			ACW10	03/17/2014 1606	MB

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RL - Reporting Limit

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

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 3/27/2014
Report ID S1402335001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402335-004
ClientSample ID: BOW 2010-1
COC: WEB

WorkOrder: S1402335
CollectionDate: 2/25/2014
DateReceived: 2/27/2014 11:49:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

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

- C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

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



Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-008
ClientSample ID: BOW 2010-1
COC: WEB

WorkOrder: S1406337
CollectionDate: 6/16/2014
DateReceived: 6/18/2014 10:42:00 AM
FieldSampler: WN
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).

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



Sample Analysis Report

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

Date Reported: 8/8/2014
Report ID: S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-008
ClientSample ID: BOW 2010-1
COC: WEB

WorkOrder: S1406337
CollectionDate: 6/16/2014
DateReceived: 6/18/2014 10:42:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	06/19/2014 2056	DG
Arsenic	0.008	mg/L		0.001	EPA 200.8	06/23/2014 214	MS
Barium	0.1	mg/L		0.1	EPA 200.8	06/23/2014 214	MS
Boron	0.1	mg/L		0.1	EPA 200.7	06/19/2014 2056	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 214	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2056	DG
Copper	0.01	mg/L		0.01	EPA 200.8	06/23/2014 214	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2056	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 214	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/19/2014 2056	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	06/26/2014 1332	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 214	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/19/2014 2056	DG
Selenium	0.009	mg/L		0.001	EPA 200.8	06/23/2014 214	MS
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/23/2014 214	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 214	MS
Zinc	0.09	mg/L		0.01	EPA 200.7	06/19/2014 2056	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 2304	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1550	WN
Radionuclides - Dissolved							
Lead 210	1.8	pCi/L		1	OTW01	07/09/2014 1302	MB
Lead 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	07/09/2014 1302	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1116	MB
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	07/10/2014 1116	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/15/2014 1413	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	07/15/2014 1413	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/03/2014 1336	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	07/03/2014 1336	MB
Thorium 229 Tracer (30-120)	79	%			ACW10	07/03/2014 1336	MB

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RL - Reporting Limit

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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-008
ClientSample ID: BOW 2010-1
COC: WEB

WorkOrder: S1406337
CollectionDate: 6/16/2014
DateReceived: 6/18/2014 10:42:00 AM
FieldSampler: WN
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	1.3	pCi/L		1	OTW01	07/10/2014 1639	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	07/10/2014 1639	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1532	MB
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	07/10/2014 1532	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/10/2014 1205	MB
Radium 226 (Suspended) Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/10/2014 1205	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/09/2014 821	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	07/09/2014 821	MB
Thorium 229 Tracer (30-120)	78	%			ACW10	07/09/2014 821	MB

These results apply only to the samples tested.

RL - Reporting Limit

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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409373001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-005
ClientSample ID: BOW-2010-1
COC: WEB

WorkOrder: S1409373
CollectionDate: 9/16/2014
DateReceived: 9/18/2014 10:28:00 AM
FieldSampler:
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, etc.), and Data Quality (Cation Sum, Anion Sum, etc.).

These results apply only to the samples tested.

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



Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409373001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-005
ClientSample ID: BOW-2010-1
COC: WEB

WorkOrder: S1409373
CollectionDate: 9/16/2014
DateReceived: 9/18/2014 10:28:00 AM
FieldSampler:
Matrix: Water

Comments

Table with columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Uranium Activity, Vanadium, Zinc) and Metals - Suspended (Uranium, Uranium Activity). Also includes Radionuclides - Dissolved (Lead 210, Polonium 210, Radium 226, Thorium 230, Thorium 229 Tracer).

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409373001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-005
ClientSample ID: BOW-2010-1
COC: WEB

WorkOrder: S1409373
CollectionDate: 9/16/2014
DateReceived: 9/18/2014 10:28:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 1/9/2014
Report ID S1312159001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312159-002
ClientSample ID: BOW 2010-2
COC:

WorkOrder: S1312159
CollectionDate: 12/10/2013
DateReceived: 12/12/2013 1:19:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	255	mg/L		5	SM 2320B	12/13/2013 2252	KV
Alkalinity, Bicarbonate as HCO3	<1	mg/L		1	SM 2320B	12/13/2013 2252	KV
Alkalinity, Carbonate as CO3	112	mg/L		1	SM 2320B	12/13/2013 2252	KV
Chloride	339	mg/L		1	EPA 300.0	12/17/2013 1522	AMB
Fluoride	0.5	mg/L		0.1	SM 4500FC	12/13/2013 2252	KV
Nitrogen, Nitrate+Nitrite (as N)	0.6	mg/L		0.1	EPA 353.2	12/16/2013 1429	RH
Sulfate	33	mg/L		1	EPA 300.0	12/17/2013 1522	AMB
Calcium	20	mg/L		1	EPA 200.7	12/13/2013 1548	DG
Magnesium	<1	mg/L		1	EPA 200.7	12/13/2013 1548	DG
Potassium	35	mg/L		1	EPA 200.7	12/13/2013 1548	DG
Sodium	300	mg/L		1	EPA 200.7	12/13/2013 1548	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	12/17/2013 1544	RH
Silica as SiO2	126	mg/L		1	EPA 200.7	12/13/2013 1548	DG
General Parameters							
pH	10.4	s.u.		0.1	SM 4500 H B	12/13/2013 2252	KV
Electrical Conductivity	1730	µmhos/cm		1	SM 2510B	12/13/2013 2252	KV
Total Dissolved Solids (180)	970	mg/L		10	SM 2540	12/13/2013 1152	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	12/12/2013 000	WN
Data Quality							
Cation Sum	14.93	meq/L		0.01	SM 1030E	12/19/2013 1608	BC
Anion Sum	15.42	meq/L		0.01	SM 1030E	12/19/2013 1608	BC
Cation-Anion Balance (± 5%)	1.60	%		0.01	SM 1030E	12/19/2013 1608	BC
Solids, Total Dissolved (Calc)	1010	mg/L		10	SM 1030E	12/19/2013 1608	BC
Calculated TDS/TDS Ratio (0.80-1.20)	0.96	dec. %		0.01	Calculation	01/09/2014 1535	WN

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - C Calculated Value
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by a contract laboratory
 - ND Not Detected at the Reporting Limit
 - S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported: 1/9/2014
Report ID: S1312159001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312159-002
ClientSample ID: BOW 2010-2
COC:

WorkOrder: S1312159
CollectionDate: 12/10/2013
DateReceived: 12/12/2013 1:19:00 PM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Uranium Activity, Vanadium, Zinc), Metals - Suspended (Uranium, Uranium Activity), and Radionuclides - Dissolved (Lead 210, Polonium 210, Radium 226, Thorium 230, Thorium 229 Tracer).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: * Value exceeds Maximum Contaminant Level
C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

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



Sample Analysis Report

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

Date Reported: 1/9/2014
Report ID: S1312159001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312159-002
ClientSample ID: BOW 2010-2
COC:

WorkOrder: S1312159
CollectionDate: 12/10/2013
DateReceived: 12/12/2013 1:19:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	01/07/2014 1152	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	01/07/2014 1152	SH
Polonium 210	<1	pCi/L		1	OTW01	01/03/2014 1227	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	01/03/2014 1227	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	12/26/2013 1556	SH
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	12/26/2013 1556	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	01/02/2014 919	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	01/02/2014 919	MB
Thorium 229 Tracer (30-120)	90	%			ACW10	01/02/2014 919	MB

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level
 - C Calculated Value
 - H Holding times for preparation or analysis exceeded
 - L Analyzed by a contract laboratory
 - ND Not Detected at the Reporting Limit
 - S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 3/27/2014
Report ID S1402335001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402335-005
ClientSample ID: BOW 2010-2
COC: WEB

WorkOrder: S1402335
CollectionDate: 2/25/2014
DateReceived: 2/27/2014 11:49:00 AM
FieldSampler:
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 3/27/2014
Report ID S1402335001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402335-005
ClientSample ID: BOW 2010-2
COC: WEB

WorkOrder: S1402335
CollectionDate: 2/25/2014
DateReceived: 2/27/2014 11:49:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	02/28/2014 1508	DG
Arsenic	0.006	mg/L		0.001	EPA 200.8	02/27/2014 2050	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2050	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	02/28/2014 1508	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/27/2014 2050	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1508	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/27/2014 2050	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1508	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/27/2014 2050	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	02/28/2014 1508	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 938	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2050	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1508	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	02/27/2014 2050	MS
Uranium	0.0014	mg/L		0.0003	EPA 200.8	02/27/2014 2050	MS
Uranium Activity	0.9	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2050	MS
Zinc	0.20	mg/L		0.01	EPA 200.7	02/28/2014 1508	DG
Metals - Suspended							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2201	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Radionuclides - Dissolved							
Lead 210	<1	pCi/L		1	OTW01	03/11/2014 1423	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/11/2014 1423	SH
Polonium 210	<1	pCi/L		1	OTW01	03/05/2014 1205	SH
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	03/05/2014 1205	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/14/2014 1522	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	03/14/2014 1522	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/17/2014 1606	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	03/17/2014 1606	MB
Thorium 229 Tracer (30-120)	94	%			ACW10	03/17/2014 1606	MB

These results apply only to the samples tested.

RL - Reporting Limit

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

Reviewed by: Wade Nieuwsma
 Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 3/27/2014
Report ID S1402335001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402335-005
ClientSample ID: BOW 2010-2
COC: WEB

WorkOrder: S1402335
CollectionDate: 2/25/2014
DateReceived: 2/27/2014 11:49:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Suspended							
Lead 210	<1	pCi/L		1	OTW01	03/14/2014 1420	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	03/14/2014 1420	SH
Polonium 210	<1	pCi/L		1	OTW01	03/17/2014 1351	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	03/17/2014 1351	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1010	SH
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	03/18/2014 1010	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/20/2014 1041	MB
Thorium 230 Precision (±)	0.04	pCi/L			ACW10	03/20/2014 1041	MB
Thorium 229 Tracer (30-120)	96	%			ACW10	03/20/2014 1041	MB

These results apply only to the samples tested.

RL - Reporting Limit

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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-009
ClientSample ID: BOW 2010-2
COC: WEB

WorkOrder: S1406337
CollectionDate: 6/16/2014
DateReceived: 6/18/2014 10:42:00 AM
FieldSampler: WN
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-009
ClientSample ID: BOW 2010-2
COC: WEB

WorkOrder: S1406337
CollectionDate: 6/16/2014
DateReceived: 6/18/2014 10:42:00 AM
FieldSampler: WN
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Uranium Activity, Vanadium, Zinc), Metals - Suspended (Uranium, Uranium Activity), and Radionuclides - Dissolved (Lead 210, Polonium 210, Radium 226, Thorium 230, Thorium 229 Tracer).

These results apply only to the samples tested.

RL - Reporting Limit

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

Reviewed by: Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-009
ClientSample ID: BOW 2010-2
COC: WEB

WorkOrder: S1406337
CollectionDate: 6/16/2014
DateReceived: 6/18/2014 10:42:00 AM
FieldSampler: WN
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409373001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-006
ClientSample ID: BOW-2010-2
COC: WEB

WorkOrder: S1409373
CollectionDate: 9/16/2014
DateReceived: 9/18/2014 10:28:00 AM
FieldSampler:
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, etc.), and Data Quality (Cation Sum, etc.).

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409373001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-006
ClientSample ID: BOW-2010-2
COC: WEB

WorkOrder: S1409373
CollectionDate: 9/16/2014
DateReceived: 9/18/2014 10:28:00 AM
FieldSampler:
Matrix: Water


Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Metals - Dissolved						
Aluminum	0.05	mg/L		0.05	EPA 200.7	09/19/2014 1537 DG
Arsenic	0.006	mg/L		0.001	EPA 200.8	09/19/2014 406 MS
Barium	ND	mg/L		0.1	EPA 200.8	09/19/2014 406 MS
Boron	ND	mg/L		0.1	EPA 200.7	09/19/2014 1537 DG
Cadmium	ND	mg/L		0.005	EPA 200.8	09/19/2014 406 MS
Chromium	ND	mg/L		0.05	EPA 200.7	09/19/2014 1537 DG
Copper	ND	mg/L		0.01	EPA 200.8	09/19/2014 406 MS
Iron	ND	mg/L		0.05	EPA 200.7	09/19/2014 1537 DG
Lead	ND	mg/L		0.001	EPA 200.8	09/19/2014 406 MS
Manganese	ND	mg/L		0.01	EPA 200.7	09/19/2014 1537 DG
Mercury	ND	mg/L		0.001	EPA 245.1	09/24/2014 1057 BJ
Molybdenum	ND	mg/L		0.1	EPA 200.8	09/19/2014 406 MS
Nickel	ND	mg/L		0.05	EPA 200.7	09/19/2014 1537 DG
Selenium	0.001	mg/L		0.001	EPA 200.8	09/19/2014 406 MS
Uranium	0.0017	mg/L		0.0003	EPA 200.8	09/19/2014 406 MS
Uranium Activity	1.2	pCi/L		0.2	Calculation	10/13/2014 1201 WN
Vanadium	ND	mg/L		0.1	EPA 200.8	09/19/2014 406 MS
Zinc	0.11	mg/L		0.01	EPA 200.7	09/19/2014 1537 DG
Metals - Suspended						
Uranium	ND	mg/L		0.0003	EPA 200.8	10/06/2014 1852 MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/13/2014 1201 WN
Radionuclides - Dissolved						
Lead 210	ND	pCi/L		1	OTW01	10/27/2014 1039 MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	10/27/2014 1039 MB
Polonium 210	ND	pCi/L		1	OTW01	10/27/2014 1448 MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	10/27/2014 1448 MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	10/14/2014 1552 MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	10/14/2014 1552 MB
Thorium 230	ND	pCi/L		0.2	ACW10	10/22/2014 857 MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/22/2014 857 MB
Thorium 229 Tracer (30-120)	74	%			ACW10	10/22/2014 857 MB

These results apply only to the samples tested.

RL - Reporting Limit

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

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409373001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-006
ClientSample ID: BOW-2010-2
COC: WEB

WorkOrder: S1409373
CollectionDate: 9/16/2014
DateReceived: 9/18/2014 10:28:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 1/9/2014
Report ID S1312159001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312159-003
ClientSample ID: BOW 2010-3
COC:

WorkOrder: S1312159
CollectionDate: 12/10/2013
DateReceived: 12/12/2013 1:19:00 PM
FieldSampler:
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: * Value exceeds Maximum Contaminant Level, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

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

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



Sample Analysis Report

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

Date Reported: 1/9/2014
Report ID: S1312159001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312159-003
ClientSample ID: BOW 2010-3
COC:

WorkOrder: S1312159
CollectionDate: 12/10/2013
DateReceived: 12/12/2013 1:19:00 PM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Uranium Activity, Vanadium, Zinc), Metals - Suspended (Uranium, Uranium Activity), and Radionuclides - Dissolved (Lead 210, Polonium 210, Radium 226, Thorium 230, Thorium 229 Tracer).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: * Value exceeds Maximum Contaminant Level
C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

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



Sample Analysis Report

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

Date Reported: 1/9/2014
Report ID: S1312159001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312159-003
ClientSample ID: BOW 2010-3
COC:

WorkOrder: S1312159
CollectionDate: 12/10/2013
DateReceived: 12/12/2013 1:19:00 PM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: * Value exceeds Maximum Contaminant Level, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

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

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



Sample Analysis Report

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

Date Reported: 3/27/2014
Report ID: S1402335001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402335-006
ClientSample ID: BOW 2010-3
COC: WEB

WorkOrder: S1402335
CollectionDate: 2/25/2014
DateReceived: 2/27/2014 11:49:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	109	mg/L		5	SM 2320B	02/27/2014 2315	KV
Alkalinity, Bicarbonate as HCO3	94	mg/L		1	SM 2320B	02/27/2014 2315	KV
Alkalinity, Carbonate as CO3	19	mg/L		1	SM 2320B	02/27/2014 2315	KV
Chloride	36	mg/L		1	EPA 300.0	03/07/2014 312	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	02/27/2014 2315	KV
Nitrogen, Nitrate+Nitrite (as N)	<0.1	mg/L		0.1	EPA 353.2	03/03/2014 1502	RH
Sulfate	59	mg/L		1	EPA 300.0	03/07/2014 312	AMB
Calcium	5	mg/L		1	EPA 200.7	02/28/2014 1510	DG
Magnesium	<1	mg/L		1	EPA 200.7	02/28/2014 1510	DG
Potassium	8	mg/L		1	EPA 200.7	02/28/2014 1510	DG
Sodium	86	mg/L		1	EPA 200.7	02/28/2014 1510	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 933	RH
Silica as SiO2	71	mg/L		1	EPA 200.7	02/28/2014 1510	DG
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	02/27/2014 2315	KV
Electrical Conductivity	468	µmhos/cm		1	SM 2510B	02/27/2014 2315	KV
Total Dissolved Solids (180)	340	mg/L		10	SM 2540	02/27/2014 1406	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
Data Quality							
Cation Sum	4.16	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Anion Sum	4.44	meq/L		0.01	SM 1030E	03/14/2014 944	JJ
Cation-Anion Balance (± 5%)	3.29	%		0.01	SM 1030E	03/14/2014 944	JJ
Solids, Total Dissolved (Calc)	330	mg/L		10	SM 1030E	03/14/2014 944	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.03	dec. %		0.01	Calculation	03/25/2014 1148	WN

These results apply only to the samples tested.

RL - Reporting Limit

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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 3/27/2014
Report ID S1402335001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402335-006
ClientSample ID: BOW 2010-3
COC: WEB

WorkOrder: S1402335
CollectionDate: 2/25/2014
DateReceived: 2/27/2014 11:49:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Uranium Activity, Vanadium, Zinc), Metals - Suspended (Uranium, Uranium Activity), and Radionuclides - Dissolved (Lead 210, Polonium 210, Radium 226, Thorium 230, Thorium 229 Tracer).

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 3/27/2014
Report ID S1402335001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402335-006
ClientSample ID: BOW 2010-3
COC: WEB

WorkOrder: S1402335
CollectionDate: 2/25/2014
DateReceived: 2/27/2014 11:49:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-010
ClientSample ID: BOW 2010-3
COC: WEB

WorkOrder: S1406337
CollectionDate: 6/16/2014
DateReceived: 6/18/2014 10:42:00 AM
FieldSampler: WN
Matrix: Water

Comments

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

These results apply only to the samples tested.

RL - Reporting Limit

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

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



Sample Analysis Report

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

Date Reported 8/8/2014
Report ID S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-010
ClientSample ID: BOW 2010-3
COC: WEB

WorkOrder: S1406337
CollectionDate: 6/16/2014
DateReceived: 6/18/2014 10:42:00 AM
FieldSampler: WN
Matrix: Water

Comments

Table with columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Uranium Activity, Vanadium, Zinc), Metals - Suspended (Uranium, Uranium Activity), and Radionuclides - Dissolved (Lead 210, Polonium 210, Radium 226, Thorium 230, Thorium 229 Tracer).

These results apply only to the samples tested.

RL - Reporting Limit

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

Reviewed by: Wade Nieuwsma, Assistant Laboratory Manager



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FieldSampler: WN
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

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

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



Sample Analysis Report

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

Date Reported 11/17/2014
Report ID S1409373001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409373-007
ClientSample ID: BOW-2010-3
COC: WEB

WorkOrder: S1409373
CollectionDate: 9/16/2014
DateReceived: 9/18/2014 10:28:00 AM
FieldSampler:
Matrix: Water

Comments

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

These results apply only to the samples tested.

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Reviewed by: Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
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Date Reported 11/17/2014
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COC: WEB

WorkOrder: S1409373
CollectionDate: 9/16/2014
DateReceived: 9/18/2014 10:28:00 AM
FieldSampler:
Matrix: Water


Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.05	EPA 200.7	09/19/2014 1539	DG
Arsenic	0.011	mg/L		0.001	EPA 200.8	09/19/2014 411	MS
Barium	ND	mg/L		0.1	EPA 200.8	09/19/2014 411	MS
Boron	0.1	mg/L		0.1	EPA 200.7	09/19/2014 1539	DG
Cadmium	ND	mg/L		0.005	EPA 200.8	09/19/2014 411	MS
Chromium	ND	mg/L		0.05	EPA 200.7	09/19/2014 1539	DG
Copper	ND	mg/L		0.01	EPA 200.8	09/19/2014 411	MS
Iron	ND	mg/L		0.05	EPA 200.7	09/19/2014 1539	DG
Lead	ND	mg/L		0.001	EPA 200.8	09/19/2014 411	MS
Manganese	ND	mg/L		0.01	EPA 200.7	09/19/2014 1539	DG
Mercury	ND	mg/L		0.001	EPA 245.1	09/24/2014 1103	BJ
Molybdenum	ND	mg/L		0.1	EPA 200.8	09/19/2014 411	MS
Nickel	ND	mg/L		0.05	EPA 200.7	09/19/2014 1539	DG
Selenium	0.004	mg/L		0.001	EPA 200.8	09/19/2014 411	MS
Uranium	0.0035	mg/L		0.0003	EPA 200.8	09/19/2014 411	MS
Uranium Activity	2.4	pCi/L		0.2	Calculation	10/13/2014 1201	WN
Vanadium	ND	mg/L		0.1	EPA 200.8	09/19/2014 411	MS
Zinc	ND	mg/L		0.01	EPA 200.7	09/19/2014 1539	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	10/08/2014 1858	MS
Uranium Activity	ND	pCi/L		0.2	Calculation	10/13/2014 1201	WN
Radionuclides - Dissolved							
Lead 210	ND	pCi/L		1	OTW01	10/27/2014 1039	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	10/27/2014 1039	MB
Polonium 210	ND	pCi/L		1	OTW01	10/27/2014 1448	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	10/27/2014 1448	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	10/14/2014 1552	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	10/14/2014 1552	MB
Thorium 230	ND	pCi/L		0.2	ACW10	10/22/2014 857	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	10/22/2014 857	MB
Thorium 229 Tracer (30-120)	89	%			ACW10	10/22/2014 857	MB

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RL - Reporting Limit

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

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



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Matrix: Water

Comments

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